State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf

Section GI - General Site Information

A. General Information

1. Site name

Sta-Rite, Deerfield

2. Reporting period from:	To:	Days in period:
01/01/2017	12/31/2017	365

3. Regulatory agency (enter DNR, DATCP and/or other)	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
DNR	02-13-001621

5. Site location

Region	County	Address
South Central Region	Dane	38 West Nelson Street, Deerfield, WI

Municipality name ◯ City ◯ Town ⊗ Village	Township	Range ◉E ◯W	Section	¼	¼ ¼
Village of Deerfield	07 N	12	21	SW	SW

6. Responsible party	7. Consultant
Name: Steve Scharinger	☐ Select if the following information has changed since the last submittal
Mailing address: 293 Wright Street, Delavan, WI 53115	Company name: Tetra Tech, Inc.
Phone number: (262) 728-7408	Mailing address: 175 N. Corporate Drive, Suite 100, Brookfield, WI 53045
	Phone number: (262) 792-1282

8. Contaminants

Trichloroethene (TCE), 1,1,1-Trichloroethane (TCA), 1,1,2-Trichloroethane, 1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethane, Tetrachloroethene, Methylene Chloride, Vinyl Chloride

9. Soil types (USCS or USDA)

SM/SC

10. Hydraulic conductivity(cm/sec):	11. Average linear velocity of groundwater (ft/yr)
0.00046	10.8

12. If soil is treated ex situ, is the treatment location off site? ◯ Yes ◯ No

If yes, give location: Region	County					
Municipality name ◯ City ◯ Town ◯ Village	Township N	Range ◯E ◯W	Section	¼	¼ ¼

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- ☒ Groundwater extraction (submit a completed Section GW-1).
- ☐ Free product recovery (submit a completed Section GW-1).
- ☐ In situ air sparging (submit a completed Section GW-2).
- ☐ Groundwater natural attenuation (submit a completed Section GW-3).
- ☐ Other groundwater remediation method (submit a completed Section GW-4).
- ☐ Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- ☐ Soil natural attenuation (submit a completed Section IS-2).
- ☐ Other in situ soil remediation method (submit a completed Section IS-3).
- ☐ Biopiles (submit a completed Section ES-1).
- ☐ Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- ☐ Other ex situ remediation method (submit a completed Section ES-3).
- ☐ Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attentuation), complete this subsection.

1. Is the system operating at design rates and specifications? ◉ Yes ◯ No
   If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness ◯ Yes ◉ No
   If yes, explain:

3. Is natural attenuation an effective low cost option at this time? ◯ Yes ◉ No
4. Is closure sampling warranted at this time? ◯ Yes ◉ No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◯ Yes ◉ No
   If yes, explain:

D. Economic and Cost Data to Date

1. Total investigation cost: $32,000.00
2. Implementation costs (design, capital and installation costs, excluding investigation costs: $195,314.00
3. Total costs during the previous reporting period: $27,421.00
4. Total costs during this reporting period: $27,494.00
5. Total anticipated costs for the next reporting period: $26,025.00
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? ◉ Yes ◯ No

If yes, explain:
New Badger Meter Model 35 flow meter installed on extraction well EW-1 groundwater influent line in remediation system building on 8/23/2017.

7. If closure is anticipated within 12 months, estimated costs for project closeout:

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, 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. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	**Date**

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(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. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Mark A. Manthey	Associate Hydrogeologist
Signature Mark A. Manthey	**Date** 1/29/2018

Scientists:

I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), 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. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	**Date**

Other Persons:

Print name	Title
Signature	**Date**

Professional Seal(s), if applicable:

Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: 1 and the number in use during period: 1

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain:
359

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
98.4%

4. Quantity of groundwater extracted during this time period: 9,676,746 gallons

5. Average groundwater extraction rate: 18.5 gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds: 14.3 lbs

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? ◯ Yes ◉ No
If yes, explain:

2. Quantity of free product extracted during this time period (enter none if none): _____ gallons

3. Average free product extraction rate: _____ gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? ◯ Yes ◉ No
If no, explain:
The system was designed to address the contaminant plume on source area property in accordance with the Settlement Agreement and Release between the Village of Deerfield, Wisconsin and Sta-Rite Industries, Inc. dated November 30, 1998.

2. If free product is present, is the free product fully contained in capture zone? ◯ Yes ◯ No
If no, explain:

3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:

4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.

a. Contaminant: TCE

b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 99.9 %

c. Maximum contaminant concentration level in any monitoring well of that contaminant: 650 µg/L

d. Maximum contaminant concentration level in any extraction well of that contaminant: 140 µg/L

e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

The screened interval of the extraction well is 100 feet and therefore draws groundwater from less impacted zones of the aquifer than is represented by the sample results of MW-17D, which has a 10-foot screen.

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Groundwater contour map with capture zone indicated.
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
  - -- Graph of contaminant concentrations versus time for each extraction well in use during the period.
  - -- Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Section GW-2, In Situ Air Sparging Systems

A. In Situ Air Sparging System Operation

1. Number of air injection wells at the site and the number actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

B. System Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.

   a. Contaminant: _____

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

   c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is there any evidence that air is short circuiting through natural or man-made pathways? ◯ Yes ◯ No
   If yes, explain:

3. Is the size of the plume: ◯ Increasing ◯ Stabalized ◯ Decreasing ?
   If increasing, explain:

C. Additional Attachments

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Section GW-3, Natural Attenuation (Passive Bioremediation) in Groundwater

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a

   a. Contaminant: _____

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

   c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L

2. Aquifer parameters:

   a. Hydraulic conductivity: _____ cm/sec

   b. Groundwater average linear velocity: _____ ft/yr

3. Is there a downgradient monitoring well that meets ch. NR 140 standards? ◯ Yes ◯ No

4. Based on water chemistry results, is the plume: ◯ Expanding ◯ Stabalized ◯ Contracting ?

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? ◯ Yes ◯ No

   If yes, explain:

6. Biodegradation parameters:

   a. Upgradient (or other site specific background) DO level: _____ µg/L

   b. DO levels in the part of the plume that is most heavily contaminated _____ µg/L

7. Is site closure a viable option within 12 months from the date of this form? ◯ Yes ◯ No

8. Are there any modifications that can improve cost effectiveness? ◯ Yes ◯ No

   If yes, explain:

9. Have groundwater table fluctuations changed the contaminant level trends over time? ◯ Yes ◯ No

   If yes, explain:

10. Has the direction of groundwater flow changed during the reporting period? ◯ Yes ◯ No

    If yes, approximate change in degrees: _____

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
  Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.
- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

Section GW-4, Other Groundwater Remediation Methods

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

   a. Contaminant: _____

   b. Percent reduction necessary: _____ %

   c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is the size of the plume: ◯ Increasing ◯ Stabalized ◯ Decreasing ?

3. Describe the method used to remediate groundwater at the site:

4. List any additional information required by the DNR for this method for this site:

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):

_____

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

_____

4. Average depth to groundwater: _____ gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):

_____

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: _____ pounds per day
2. Average contaminant removal rate per well or venting point: _____ pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
   a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
      i. Oxygen levels in extracted air: _____ percent
      ii. Methane levels in extracted air (ppm_V) If over 10 ppm_V, explain:

      _____

      iii. If methane is not present above 10 ppm_V and if oxygen is greater than 20 percent in extracted air, you should either:
      - Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
      - Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.

   b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
   c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.

Section IS-2, Natural Attenuation (Passive Bioremediation) in Soil

A. Effectiveness Evaluation

1. Soil gas information in the soil that is most contaminated from a permanently installed gas probe(s) or water table monitoring well(s).
   a. Hydrocarbon levels: _____ ppm, with an FID
   b. Oxygen levels: _____ percent
   c. Carbon dioxide levels(specify ppm or percent): _____
   d. Methane levels: _____ ppm
2. Soil gas information in background (uncontaminated soil) from permanently installed gas probe(s)or water table monitoring well(s):
   a. Hydrocarbon levels: _____ ppm, with an FID
   b. Oxygen levels: _____ percent
   c. Carbon dioxide levels(specify ppm or percent): _____
   d. Methane levels: _____ ppm
3. List the results of the single boring that had the highest levels of soil contamination during the last round of soil sampling, and the date those samples were collected. Since soil borings are only drilled periodically, list the most recent data even if the data is prior to this reporting period. Since this data is used to assess progress based on the most recent soil sampling event, do not list data from prior sampling events.
   a. Total hydrocarbons (Specify if GRO and/or DRO): _____ µg/kg
   b. Specific compounds (µg/kg):
      i. Benzene: _____ µg/kg
      ii. 1,2 Dichloroethane: _____ µg/kg
      iii. Ethylbenzene: _____ µg/kg
      iv. Toluene: _____ µg/kg
      v. Total xylenes: _____ µg/kg
4. Is there any evidence that contaminants are leaching into groundwater? ◯ Yes ◯ No
   If the answer is yes and if groundwater quality is not being monitored, explain:
5. Is site closure a viable option within 12 months from the date of this form? ◯ Yes ◯ No
6. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◯ Yes ◯ No
   If yes, explain:

B. Additional Attachments

Attach the following to this form:

- Well and soil sample location map.
- Cross sections showing the water table, soil sampling locations, screened intervals for gas probes or water table wells, geologic contacts, and any former excavation boundaries.
- Graphs of contaminant concentrations, oxygen, carbon dioxide and methane levels over time.
- Groundwater elevations table, if water table wells are present at the site.
- Table of soil contaminant chemistry.
- Table of soil gas readings.

Section IS-3, Other In Situ Soil Remediation Methods

A. Effectiveness Evaluation

1. Describe the method used to remediate soil at the site:

2. List all information required by the DNR for this remediation method for this site:

B. Additional Attachments

Attach the following to this form:

- Any other attachments required by the DNR for this remediation method.

Section ES-1, Ex Situ Soil Treatment Using Biopiles

A. Effectiveness Evaluation

1. Volume of soil in the biopile (if multiple biopiles, list number of piles and total volume):

2. Monitoring used to assess progress and verify optimal conditions for biodegradation.
   a. Vapor phase measurements of gases (average of all readings from most recent sampling event):
      i. VOCs by FID: _____ ppm
      ii. Oxygen: _____ percent
      iii. Carbon dioxide: _____ percent
      iv. Methane: _____ ppm
   b. Soil temperature: _____ °F
   c. Soil moisture sensors, if used: _____ percent
3. Treatment amendments added to the soil during construction:
   a. Artificial nutrients, excluding manure.
      i. Types and total pounds added:

      ii. Nitrogen and phosphorous content of the added amendment: _____ percent
   b. Manure: _____ total pounds
   c. Natural organic materials (straw, wood chips, etc.)(type and total pounds):

4. Forced air biopiles only answer the following:
   a. Total air flow rate of the ventilation system: _____ scfm
   b. Average contaminant removal rate: _____ pounds per day
   c. Average biodegradation rate based on oxygen utilization: _____ pounds per day
5. If soil samples have been taken to monitor progress, list results. Only list the most recent results. If none collected enter NA.
   a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg
   b. Specific compounds (µg/kg):
      i. Benzene: _____ µg/kg
      ii. 1,2 Dichloroethane: _____ µg/kg
      iii. Ethylbenzene: _____ µg/kg
      iv. Toluene: _____ µg/kg
      v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Figure showing the construction details of the biopile and any sampling locations within the biopile.
- Table of soil contaminant chemistry data.
- Table of operational data.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

A. Effectiveness Evaluation

1. Method used: ◯ landspreading ◯ thinspreading

Note: For purposes of this form, "landspreading" is the placement of contaminated soil on native topsoil, incorporation of that soil into the native soil and planting crops or other plants on it. The term "thinspreading" refers to placing contaminated soil on an impervious base for aeration.

2. Was any progress monitoring using field screening on soil conducted during this reporting period? ◯ Yes ◯ No

3. If the answer to A.2. (above) is yes:

i. List monitoring method:

_____

ii. List monitoring results:

_____

4. Is there any evidence of soil erosion at the landspreading/thinspreading location? ◯ Yes ◯ No

5. Spreading thickness: _____ inches

6. Type of crop planted (if thinspreading with no crop planted, so state):

_____

7. Confirmation sampling date: _____ Anticipated confirmation sampling date: _____

8. Most recent soil sample results, if soil samples for laboratory analysis have been collected to monitor progress. Only list the highest result of the most recent sampling round. If no samples have been collected, enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

b. Specific compounds (µg/kg):

i. Benzene: _____ µg/kg

ii. 1,2 Dichloroethane: _____ µg/kg

iii. Ethylbenzene: _____ µg/kg

iv. Toluene: _____ µg/kg

v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Map of the landspreading/thinspreading area. If soil samples have been collected, specify locations of samples and dates of sampling.
- Table of soil contaminant chemistry data.
- Table of any field screening results with dates of sample collection.

Section ES-3, Landfills

Note: Reporting forms or reporting requirements in a Department approved Operation and Maintenance Plan for a landfill may take the place of this form.

Specific Inspection Items	Potential Problem Areas	Status	Notes
Perimeter Security Fencing	Broken or missing wood slats, torn chain link fabric, barbed wire, other - list		
Entrance Gate and Locking Mechanism	Lock broken/missing, mechanism inoperative.		
Monitoring Wells and Wellhead Covers	Signs of tampering, casing damaged, lock missing.		
Final Cover Vegetation	Bare spots, stressed vegetation, deep rooted vegetation.		
Final Cover Slope (explain below)	Gullies, lack of vegetation, subsidence, ponding.		
Evidence of Burrowing Animals	Damage to final cover, evidence of waste.		
Stormwater Drainage Channels	Gullies, erosion, debris, culvert blocked.		
Passive Landfill Gas Venting System	Damaged or blocked vent risers, stressed vegetation.		
Active Landfill Gas Extraction System	Damaged or blocked piping, cleanouts, other blower flare, knockouts, etc.		
Leachate Collection System	Pumps, connection piping, collection system piping, extraction wells, collection tanks, tanker truck loading system or sanitary sewer discharge piping.		
Access Road Cover Mowing; Tall Vegetation Removal	Ponding, rutting, erosion, cracked or damaged pavement. Mowing and tall vegetation removal done to specified vegetation.		

Summary of Deficiencies and/or Corrective Actions:

B. Additional Attachments

Attach the following to this form:

- Any photographs documenting problems and maintenance activities.
- Maps, drawings showing site features requiring maintenance.
- Records for leachate pumping/discharge/hauling.
- Records for active gas extraction volumes.

Section INS- 1, Section by Section Instructions and Information

Specific Section by Section Instructions for This Form. The site name and reporting period is listed on every page. Then if the pages are inadvertently separated, that information can be used to determine which pages form the report.

General Site Information

-- A.1. List the name as it appears on the DNR tracking system. If the person filling out the form does not know what the name on the tracking system is, use the name that the DNR used in the most recent correspondence.

-- A.2. The reporting period should be either from January 1 to June 30 or July 1 to December 31 for active systems. For passive systems, use a calendar year basis. If however the report covers a newly installed system, list the actual startup date instead of January 1 or July 1. For new passive systems, use the first date that monitoring data is available as the date of startup.

-- A.3. Enter all regulatory agencies that regulate the site.

-- A.4. This form is a DNR form. For that reason, list the DNR site number. If there are other agencies regulating the site, listing identification numbers for other agencies is also recommended, but not mandatory, unless specified by those other agencies.

-- A.5. If the information listed for the site location is not sufficient information for a person to use to drive to a site (example: no street address in a rural area), also include a map that is sufficient for a person to use to drive to the site. A U.S. G.S. topographic map that shows the site location may be used.

-- A.8. List the contaminants that have at one time exceeded the PALs or Table Values in ch. NR 720. If GRO and/or DRO exceed the ch. NR 720 standards, also list GRO and/or DRO. Do not list other contaminants that have never exceeded state standards at the site. If more room is necessary, write "SEE ATTACHED SHEETS" and list all contaminants on a separate sheet.

-- A.9. List the predominant soil types that are contaminated. If there is both contaminated soil and groundwater at the site, list soil types both above and below the water table. If only some soil is contaminated, do not list the soil types that are uncontaminated. If the site soils meet soil cleanup criteria, but groundwater is contaminated, so state that. Specify if the USCS or USDA system is used for soil descriptions. This line specifies soil because the vast majority of contaminated sites do not have contaminated bedrock. If bedrock is contaminated, also list that bedrock type.

-- A.10. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, list the estimated hydraulic conductivity and the method used to estimate it (bail-down tests, calculations based on grain size, pumping test, etc.) If the hydraulic conductivity has not been determined, state when the tests are to be conducted. When a number of test results are available, list the range of results and the geometric mean. If however some results have a low level of accuracy and some results have a high level of accuracy, you should only list the most accurate results. See the Section on aquifer testing in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information.

-- A.11. If the groundwater meets ch. NR 140 standards, enter "NA - NO NR 140 EXCEEDANCES". Otherwise, enter groundwater average linear velocity as a function of hydraulic conductivity, effective porosity and the groundwater gradient. You should use the geometric mean from A.11. (above) and the most representative value for the gradient at the site. Estimate the effective porosity based on soil types and geologic origin of the soil. If there are reasons to believe that the average liner velocity estimate is less than the actual rate at the site, so state that reason. Secondary porosity effects, flow through submerged utility trenches, widespread contaminant distribution in low permeability soils, etc., are reasons to assume that the actual migration rate is much greater than the predicted average linear velocity. In such cases, you should explain the reasoning for doubting the predicted average linear velocity.

-- A.12. If the information listed for the soil treatment location is not sufficient information for a person to use to drive to a site, also include a map that is sufficient for a person to use to drive to the site. A U.S.G.S. topographic map or a plat map that shows the site location may be used.

-- B. Check all methods used at a site. For example, if groundwater extraction, free product recovery and soil venting are used, check all three methods and submit the additional pages for those methods. If dual-phase or bioslurping are used, these methods extract both air and groundwater, check boxes for and attach additional pages for both soil venting and pump and treat.

-- C. Remediation systems that use any form of enhancement are considered "active" and sites where there are no enhancements of any kind are considered "passive" forms of remediation. For purposes of these forms, natural attenuation (also called naturally occurring bioremediation) is "passive" and all other remediation methods are "active" methods.

-- C.1. Design flow rates refers to flow rates such as gallons per minute extracted by a ground water extraction system, standard cubic feet per minute extracted by a soil venting system, standard cubic feet per minute injected by an in situ air sparging system, etc. If the actual flow rate is within 80 percent of the rate predicted in the design, consider that as meeting the design specification.

-- D. The cost data in this section is used by DNR staff to evaluate whether or not the selected remedy is the most cost effective remedy and whether or not system modifications may be warranted to improve efficiency and/or cost effectiveness. Responsible parties and consultants are encouraged to submit cost information so that DNR staff may assist responsible parties and consultants accomplish environmental cleanups in the most cost effective manner.

Total costs for past costs are all costs to date. This information is for all costs that were incurred to investigate and/or remediate the site. These costs include but are not limited to: consulting labor and supplies, laboratory testing, transportation, equipment, etc. If the consultant does not pass all costs through the consulting firm, the consultant will need to contact their client for other non-consulting costs to determine total costs. Exceptions include costs for attorney fees, accounting, claim assistance in preparing claims to state reimbursement funds, or other indirect expenses that are not essential to remediating the site.

-- D.2. The initial implementation costs are all costs that are incurred to start implementing a remedy at a site. Costs for the investigation however are excluded because those costs are incurred prior to remedy selection. Since costs for treatability and/or pilot testing are used to procure data for remedial design and are specific to different remediation methods, these costs should be included in implementation costs and not investigation costs. Startup or shakedown costs are also considered implementation costs and should not be considered operation and maintenance costs.

-- D.3. Costs for implementation or investigation should not be repeated here or they will be double counted.

-- D.4. Costs for implementation or investigation should not be repeated here or they will be double counted.

-- D.5. Costs for implementation or investigation should not be repeated here or they will be double counted.

-- D.6. Examples of one-time or unusual costs include the following:
- Replacing a burned out motor on a pump.
- Replacement of a well that was destroyed by a snowplow.
- Confirmation sampling to determine if the site meets closeout criteria. This type of cost is considered an unusual cost because this type of sampling is not conducted during most reporting periods.

-- D.7. This estimate of costs is for all costs to close out a site minus the salvage value of any remediation equipment. Pertinent costs include items such as well abandonment, equipment removal from the site, consulting costs associated with these items, etc. Do not include any costs that will not be paid by a state reimbursement fund, such as repaving.

Section GW-1, Groundwater Extraction and Product Recovery

-- A.1. List two numbers, the total number of extraction wells at the site and the number that were in actual use during the period. If all wells were in use, state that on the form.

-- A.2. The number of days of operation are the number of days that the system was actually operated. If the system was shut down for reasons such as: repairs were necessary, piping froze, shut down to provide time for subsurface conditions to equilibrate before sampling, etc., do not list those days as being in operation.

-- A.3. System utilization is a measure of the amount of time that the system operated relative to the amount of time that it could have operated.

-- A.5. The average is for the entire site, not per well or trench. For purposes of determining the average ground water extraction rate, calculate the average based on the total volume of groundwater extracted divided by the time of the reporting period. For example, if the system operated at 10 gallons per minute for one month, the amount of water extracted would be approximately 432,000 gallons. If the reporting period was six months long, then the time period is approximately 260,000 minutes. Therefore, the average flow rate over six months is 432,000 divided by 260,000 minutes for an average flow rate of 1.67 gallons per minute (gpm).

-- A.6. Calculate the total dissolved contaminants removed in pounds. If the estimate is a sum of BTEX and not based on a total hydrocarbon test (GRO and/or DRO), so state that on the form.

-- B.3. The average should be based on the entire site over the entire reporting period. See instructions above for A.5. List the free product recovery rate as gallons per day (gpd), not gallons per minute (gpm).

-- C.1. To answer this question, a thorough evaluation of water levels and chemical analyses in all monitoring points at the site is necessary.

-- C.2. If the capture zone has not been determined mathematically, it will need to be determined to answer this question. See the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for and any recent update or errata sheets for more information on plume capture.

-- C.4. When free product is present, line C.4.a. should state "FREE PRODUCT" and lines C.4.b. through C.4.d. are left blank. Otherwise, complete the following calculations.
There typically are several compounds at most contaminated sites that exceed the standards in ch. NR 140. The purpose of this question is to focus on the single contaminant that requires the most treatment to achieve groundwater quality standards on a percent reduction basis. For example, the most recent round of sampling at an example site demonstrated the highest levels of contaminants were 1,000 µg/L benzene and 1,000 µg/L toluene in the most heavily contaminated monitoring well. The ES and PAL for benzene is 5 µg/L and 0.5 µg/L (respectively) and for toluene the ES and PAL is 343 µg/L and 68.6 µg/L (ES and PAL data as of August 1995). Therefore the percent reduction to meet the ES and PAL for benzene is 99.5 and 99.95 percent and for toluene it is 65.7 and 93.14 percent. For that reason, the single contaminant that is most critical to reaching state groundwater standards is benzene. Therefore benzene is entered on line a. In this example, 99.5 and 99.95 percent is entered on line b. In this example, 1,000 µg/L is entered on line c. In this example, benzene is the driving factor, therefore enter the maximum benzene level in the single most heavily contaminated extraction well during the most recent sampling period on line d.

-- D. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-2, In Situ Air Sparging

-- B.1. See instructions for Section GW-1, Item C.4.

-- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-3, Natural Attenuation in Groundwater

-- A.1. See instructions for Section GW-1, Item C.4.

-- A.2.a. List the estimated hydraulic conductivity that was listed on line A.11 in Section GI-1.

-- A.2.b. List the groundwater average linear velocity that was listed on line A.12 in Section GI-1.

-- A.3. Assess the monitoring well network to determine if there is a down gradient well that has not been impacted by the contaminants. Consider the possibility of a submerged (or diving) plume in that assessment. If all evidence indicates that the plume does not extend to the farthest "clean" downgradient well, indicate "YES" on the form. Otherwise indicate "NO" on the form. If there are not plans to install such a well, explain.

-- A.4. Based on the contaminant distribution, evaluate whether or not the plume is expanding, stabilized, or contracting. When making this determination, consider the contaminant that requires the greatest percent reduction to achieve ch. NR 140 standards.

-- A.5. If the plume is expanding and a justification is necessary, add additional sheets justifying why natural attenuation is still the appropriate remedy. If it is not, further describe in the explanation the plans to use a different remedy.

-- A.6.a. Enter the upgradient dissolved oxygen (DO) level(s). If however there are contaminants measured in the upgradient well, it is not a true background measurement. In that case enter "UNKNOWN" on the form.

-- A.6.b. Enter the range of DO values measured in wells within the plume.

-- B. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section GW-4, Other Groundwater Remediation Methods

-- A.1. See instructions for Section GW-1, Item C.4.
-- A.2. Self explanatory.
-- A.3-4. Enter the information specified by the DNR for this method at this site.

Section IS-1, Soil Venting (Including both Soil Vapor Extraction and Bioventing)

-- B.3. This subsection is used as a trigger for determining if the system requires an evaluation for future activities, such as improvements, converting the site to monitoring for natural attenuation, closure, etc. If an in situ respiration test must be performed, see Hinchee, R.E. and Ong, S.K. 1992. A Rapid In Situ Respiration Test for Measuring Aerobic Biodegradation Rates of Hydrocarbons in Soil. *Journal of the Air and Waste Management Association.* Volume 42, Number 10. Pages 1305 to 1312 for general procedures. For a discussion of methane monitoring, see the instructions for Section IS-2, item A.1.d., below. If the contaminant extraction rate in B.3. is greater than the trigger levels, leave lines B.3.a.i. and B.3.a.ii. blank.

-- C. See the generic discussion at the end of the instructions (below) for figures, graphs and tables, starting on page INS-2.

Section IS-2, Natural Attenuation in Soil

-- A.1. This data is used to assess subsurface conditions based on soil gas data. Whenever possible, a permanently installed gas probe should be used. If at all possible, the gas probe should be located in the part of the site that is most heavily contaminated, since that is the part of the site that is likely to take the longest amount of time to meet ch. NR 720 standards. Water table wells that have screen exposed above the water table are also good measuring points. When installing permanent gas probes, you should install the screen deep enough that a true measure of the most heavily contaminated soil is possible, but install the screen shallow enough to assure that it is not submerged by groundwater table fluctuations. In some situations where the depth of contamination is variable, consideration should be given to using nested gas probes instead of only using probes at a single depth. Measuring points that should not be used include temporary gas probes because these points are less repeatable from one monitoring event to the next. Also, if there has been an active soil venting system in use at the site, the air extraction wells should not be used because these wells are in locations that have had much more aggressive treatment than the rest of the site.

-- A.1.a. A flame ionization detector (FID) is specified instead of a photo ionization detector (PID) because PIDs often read inaccurately in moist oxygen deficient/carbon dioxide rich atmospheres. Also, PIDs do not detect some petroleum compounds.

-- A.1.d. Methane readings are used to measure for anaerobic conditions. When the original product that is lost is a refined petroleum product (not crude oil), there should not be any methane within the product. Methane however may be produced under very anaerobic conditions. Any method may be used for measuring methane provided that the detection limit is less than a few ppm_V. One convenient method is to use an FID that is equipped with a granular activated carbon filter to filter out non-methane components. Some instrument manufacturers make these filters available as options. In some cases an FID will flame out due to an oxygen deficiency. Some instrument manufacturers offer a dilution device as an accessory that is designed to prevent flameouts and also raises the upper limit of measurement to 10,000 ppm_V or higher. If the meter "pegs" at 10,000 ppm_V (or one percent), enter ">10,000 ppm_V."

-- A.2. The background monitoring point is predominantly used to measure natural oxygen and carbon dioxide levels in soil over time. For this reason, the background monitoring point should be reasonably close to the site, but not so close that the conditions are no longer representative. Considerable variations over time can occur, this background point should be measured during every sample event. Considerations for determining if a background point is representative include:
- If an on-site background point has minor levels of VOCs in it due to gas phase diffusion, that is acceptable, but if the levels are high, it may not be representative of true background conditions.
- Background oxygen and carbon dioxide levels vary with soil type and natural organic carbon content. For this reason, if at all possible, the soil types should be identical within the screened interval of all gas probes.
- The same depths should be used for all gas probes to allow comparison from one location to the next. If the depth to water varies greatly across the site, a certain amount of confusion in the data is likely. In this case, use professional judgement to provide the best data possible at a reasonable cost.

-- A.3. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.

-- B. Cross sections are self explanatory, see the generic discussion at the end of the instructions (below) for other attachments.

Section IS-3, Other In Situ Soil Treatment Methods

-- A.2. Enter the information specified by the DNR for this method at this site.

Section ES-1, Ex Situ Soil Treatment Using Biopiles

-- A.3.a. The term "artificial nutrients" essentially means agricultural fertilizers or any other fertilizer products.

-- A.3.a.i. The types of fertilizers that are added should be listed here by chemical names, not by vendor trade names.

-- A.3.a.ii. List nitrogen content as N, list phosphorous content as phosphoric acid (P_2O_5). Note: Fertilizer ratings are based not on actual content of N, P and K, but on nitrogen (as N), phosphorous (as P_2O_5) and potassium (as K_2O).

-- A.4.c. See example calculations at the end of this set of instructions.

-- A.5. Enter this data for petroleum fuel sites. For other sites, provide the data that is most appropriate for the situation.

-- B. The figure is self explanatory. See the generic discussion at the end of the instructions (below) for instructions for the tables.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

-- B. A map to scale of the landspreading location including and landmarks or benchmarks. When samples have been collected, the distances to any landmarks or benchmarks should be indicated.

Section ES-3, Other Ex Situ Soil Treatment Methods

-- A.2. Enter the information specified by the DNR for this method at this site.

Section INS- 2, Figures, Graphs and Tables

When figures and graphs are specified, they should at a minimum contain the following information, or an explanation as to why the information is not necessary.

Maps. All maps should include the applicable information specified in s. NR 724.11(6), Wis. Adm. Code. In most cases, all information can be combined into a single map. There are times that a single map will have so much data that it is essentially unreadable. The consultant should use professional judgement when determining if a single map or multiple maps best portray the information necessary.

- Groundwater Contour Map Guidelines.

  -- List groundwater elevations for each measuring point on the map.
  -- Use the most recent data available.
  -- For water table maps, do not use data from deeper piezometers. If piezometer data is shown, use a different symbol for the piezometers than used for water table wells.
  -- If any wells are dry, indicate that on the map.
  -- If free product is present at site, shade the area where free product is estimated to be present.
  -- If groundwater is extracted with a pump and treat system, also denote plume capture zone.
  -- If in situ air sparging or soil venting is in use, specify on the map if the system was operating or shut down during the water level measurements. See the Subsection on water table maps in the *Guidance on Design, Installation and Operation of Ground Water Extraction and Product Recovery Systems* for more information on this topic.

- Groundwater Contaminant Distribution Map Guidelines.

  -- Only contaminants that exceed the ch. NR 140 ES or PAL should be shown on the map. When contaminants are above the PAL or ES at some data points and below the PAL or ES at other data points, list the data for all locations to portray which areas of the site meet ch. NR 140 groundwater quality standards.
  -- If a well is not sampled due to the presence of free product indicate "FREE PRODUCT" at those data points.
  -- If more than five contaminants exceed ch. NR 140 ES, only the five contaminants that require the greatest percent reduction to achieve ch. NR 140 ES or PAL should be shown on the map.
  -- Drawing isoconcentration lines is optional, unless specified for the site on a site specific basis.
  -- If the contamination has crossed the property line, that property line should be clearly denoted on the map.
  -- If in situ air sparging is used, water samples from ch. NR 141 type monitoring wells may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.

- Dissolved Oxygen Map Guidelines.

  -- Dissolved oxygen data may be shown on the contaminant concentration graphs or on a separate graph.
  -- Dissolved oxygen maps are optional for ground water extraction and product recovery systems.
  -- When in situ air sparging is used, monitoring points may not represent aquifer water quality as a whole. For that reason, groundwater data should be obtained from driven probes with no filter pack. If there are no driven probes and conventional ch. NR 141 monitoring wells are used, shut down the air injection system at least two weeks prior to collecting groundwater samples for DO. See the *Guidance on Design, Installation and Operation of In Situ Air Sparging Systems* and the August 1995 update sheets for more information on this topic.

- Well and Soil Sample Location Map Guidelines. Well and sample location maps for all methods should clearly indicate the location(s) of the release or the area where soil contamination historically has been highest. Also, if part of the contamination has been excavated, the pit boundaries.

  The recommended documentation for each remedial method is as follows:

  -- Groundwater Extraction and Product Recovery - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour and contaminant distribution maps.
  -- In Situ Air Sparging - the map should indicate all air injection wells, soil venting extraction wells, and all groundwater monitoring points.

Maps (Continued).

-- Natural Attenuation in Groundwater - separate well location maps should not be provided, instead the wells should be indicated on the groundwater contour maps.
-- Soil Venting - indicate all air extraction wells. If any gas probes are used to assess subsurface conditions in either contaminated zones or background locations, also indicate those data points with a different symbol. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map.
-- Natural Attenuation in Soil - show all monitoring points. Indicate which data points are background measuring points. If soil samples have been collected recently to track progress, indicate those locations with the date of sampling noted on the map. If the site was previously treated by soil venting, the locations of former air extraction wells should also be shown since these are areas where aggressive treatment has been applied. Also show area(s) of paved and unpaved ground surface. If pavement is significantly broken to allow significant water infiltration and air diffusion, map that area as broken pavement.

Graphs. All graphs that show time versus contaminant concentration or cumulative contaminant removal should be based on total time, not only operation time. All graphs that denote cumulative removal should use pounds of contaminant removed. Graphs should accurately show the time period(s) when the system was not operating. Plot time on the X axis, concentration or cumulative removal data on the Y axis.

• Time Versus Cumulative Removal. The recommended documentation for each remedial method is as follows:

-- Groundwater Extraction and Product Recovery - separate graphs should be used for free product recovery and dissolved phase recovery. A single graph for each phase is adequate, per well graphs are only necessary when specified by the Department on a site specific basis.
-- In Situ Air Sparging - no graph is necessary (removal data is shown on the graphs for the soil venting system).
-- Natural Attenuation in Groundwater - no graph is necessary.
-- Soil Venting - provide a graph of cumulative removal for total VOCs for the total system.
-- Natural Attenuation in Soil - no graph is necessary.
-- Ex Situ Soil Treatment Using Biopiles - Provide two graphs, one showing cumulative removal of total VOCs and a second graph showing total contaminant biodegradation over time.
-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.

• Time Versus Contamination Concentration Graphs. Create graphs with contamination level on the y axis (semilog scale) and time on the x axis (linear scale). If free product is present, time versus contamination concentration graphs are not necessary.

The recommended documentation for each remedial method is as follows:

-- Groundwater Extraction and Product Recovery - graph the contaminant level over time for the groundwater that is extracted by the extraction system. List all compounds that exceed ch. NR 140 ES or PAL. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
-- In Situ Air Sparging - provide a graph for the single monitoring well that is most heavily contaminated. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
-- Natural Attenuation in Groundwater - provide a graph for all monitoring wells that contain any compounds that exceed ch. NR 140 standards. If over five contaminants exceed ch. NR 140 ES or PAL, only list the five contaminants that exceed ch. NR 140 standards by the greatest percent.
-- Soil Venting - provide a graph of contaminant concentration over time for the entire system for total VOCs. If any gas probes are used to assess subsurface conditions in either contaminated zones, also provide a graph with the data from the most heavily contaminated gas probe.
-- Natural Attenuation in Soil - provide a graph of contaminant concentration over time for total vapor phase VOCs as measured with an FID, oxygen, carbon dioxide and methane in an gas probe.
-- Ex Situ Soil Treatment Using Biopiles - no graph is necessary.
-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no graphs are needed.

Graphs (Continued).

- Graph of Contaminant Concentrations Versus Distance. If free product is present, a graph of contaminant concentrations versus distance is not necessary.

  The recommended documentation for each remedial method is as follows:

  -- Groundwater Extraction and Product Recovery - no graph is necessary.
  -- In Situ Air Sparging and Natural Attenuation in Groundwater - plot a graph with distance (on the x axis, linear scale) and contaminant concentrations (y axis, log scale) from the upgradient measurement point to the farthest downgradient data point along the centerline of the plume. List the same contaminants as shown on the Time Versus Contaminant Concentration Graphs. Clearly show the source area on the graph. If free product has been present, label the data points that previously contained free product. For in situ air sparging, see comments above about samples collected from conventional monitoring wells with filter packs versus driven probes.

Tables. Whenever possible, data over the life of the project should be listed.

The recommended documentation for each type of table is as follows:

- Groundwater Contaminant Chemistry Data.

  List:
  -- Contamination levels for all contaminants that exceed ch. NR 140 standards.
  -- Dissolved oxygen levels if applicable.
  -- Other biological parameters, if applicable (nitrogen, phosphorous, manganese, sulphate, iron, dissolved methane, redox potential, pH, microbial population size, etc.). See instructions for page GW-3 for more information on these parameters. Also, list the dates the samples were collected and the standard methods used to analyze the samples.

- Groundwater Biological Parameters.

  For natural attenuation in groundwater only, these measurements should be listed (if known) to provide information on biodegradation. This table is not necessary for free product extraction, groundwater extraction or in situ air sparging.

  Provide a table that includes any results of tests conducted for dissolved oxygen, nitrate, manganese, iron, sulphate, methane, redox potential, heterotrophic and/or hydrocarbon degrading microorganism populations. Identify on the table if the monitoring locations are upgradient, side gradient, downgradient, or within the plume, dates of sampling, and the analytical methods used for those parameters. Include all data for the life of the project. Since some of these tests are only conducted once, or periodically - enter "NS" in the table for not sampled for any parameters that were not sampled during a particular round of sampling.

  When asked to list the standard methods, list the method if a standard method exists. There are however some tests (for example dissolved methane) where there are no official standard laboratory or field methods. In this case the laboratory will have to create their own standard procedures. In these cases list the name of the laboratory and that laboratory's name for that test.

  Specific considerations for each parameter are as follows:

  -- Dissolved oxygen (mg/L). The most efficient mechanism for natural or enhanced biodegradation of petroleum compounds is aerobic biodegradation.
  -- Nitrate (mg/L as N). Nitrate (NO_3^{-1}) is a potential electron acceptor for denitrification and also serves as a nutrient for heterotrophic microbial populations to enhance aerobic biodegradation. Decreasing nitrate levels from background wells to wells within the plume are an indication of either aerobic or anaerobic biodegradation.
  -- Manganese as Mn^{+2} (mg/L). Manganese as Mn^{+4} is converted to soluble manganese as Mn^{+2} under anaerobic biodegradation. For this reason, total manganese analysis is not appropriate, only soluble manganese as Mn^{+2}. When the levels of soluble manganese are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.
  -- Iron as Fe^{+2} (mg/L). Iron as Fe^{+3} is converted to soluble iron as Fe^{+2} under anaerobic biodegradation. For this reason, total iron analysis is not appropriate, only soluble iron as Fe^{+2}. When the levels of soluble iron are higher in wells within the plume than in background wells, that is an indication of anaerobic biodegradation.

Tables (Continued).

-- Dissolved sulphate (SO_4^{-2}, mg/L). Sulphate (SO_4^{-2}) is a potential electron acceptor. Decreasing sulphate levels from background wells to wells within the plume are an indication of anaerobic biodegradation.
-- Dissolved methane (mg/L). Methane is produced under anaerobic conditions. Since background methane levels can usually be assumed to be zero, in most cases only measurements within the plume are used. Exceptions are when the natural soils have very high levels of TOC (for example peat), background methane levels are also warranted. When the contaminant is crude oil instead of a refined petroleum product, methane measurements may however cause erratic results. Significant amounts of methane may be created when other electron acceptors (NO_3^{-1}, Mn^{+4}, Fe^{+3} and SO_4^{-2}) are exhausted. For this reason, significant levels of methane are indicative of very very anaerobic conditions.
-- Redox potential (millivolts, include + or - sign). Redox potential is another measure of the level of aerobic/anaerobic conditions, however it is a much more sensitive measurement than DO at very low levels of DO.
-- Heterotrophic and hydrocarbon degrading microorganism populations (CFU/mL). Heterotrophic and specific hydrocarbon degrader population sizes should be listed for both background locations and locations within the plume, if there is information available. There is disagreement by many of the experts within the field as to the merits of sampling for this parameter. Refer to other DNR guidance documents on natural attenuation (or passive bioremediation) for more information on this topic.

- Soil Gas Data.

The recommended documentation for each remedial method is as follows:

-- When natural attenuation in soil is used, provide a graph of all soil gas readings over time for every data point.
-- When soil venting is used, if a gas probe is used to assess subsurface conditions over time in a location where air is not extracted, provide that data in a table.

- System Operational Data.

The recommended documentation for each remedial method is as follows:

-- Groundwater Extraction and Product Recovery:

◦ Well by well flow rates in gpm for each extraction well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.

-- In Situ Air Sparging:

◦ Air pressure and injection flow rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.

-- Natural Attenuation in Groundwater - no table needed.

-- Soil Venting:

◦ Vacuum readings and extraction rates in scfm for each well. If a well is off line, list flow rate as "ZERO." Clearly denote on the table periods of system shutdown.
◦ Air concentrations in ppm_V or in mg/L for total VOCs.
◦ Total system contaminants removed in pounds and the pounds per day removal rate.

-- Natural Attenuation in Soil - no table needed.

Tables (Continued).

-- Ex Situ Soil Treatment Using Biopiles:

- If forced air ventilation is used:
  - System extraction rates in scfm.
  - Air concentrations in ppm_V for total VOCs.
  - Total system contaminants removed in pounds and the pounds per day removal rate.
  - Temperature.
- If passive ventilation is used, a table of temperatures.

-- Ex Situ Soil Treatment Using Landspreading/Thinspreading - no table is needed.

Acronyms and Abbreviations:

CFU/mL	colony forming units per milliliter
cm/sec	centimeters per second
DATCP	Department of Agriculture, Trade and Consumer Protection
DCOM	Department of Commerce
DNR	Department of Natural Resources
DO	Dissolved Oxygen
DRO	Diesel Range Organics
ES	Enforcement Standards in NR 140
FID	Flame Ionization Detector
ft/yr	feet per year
gpd	gallons per day
gpm	gallons per minute
GRO	Gasoline Rage Organics
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NR	prefix for rules established by the DNR
P.E.	Registered Professional Engineer
P.G.	Registered Professional Geologist
PAL	Preventative Action Limit in NR 140
PECFA	the state sponsored cleanup fund for certain petroleum contaminated sites
ppm_V	parts per million by volume (vapor phase only)
scfm	standard cubic feet per minute
TOC	Total Organic Carbon
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
µg/kg	micrograms per kilogram
µg/mL	micrograms per milliliter
VOC	Volatile Organic Compounds
Y/N	Yes or No

Section INS-3, Example Calculations for Determining the Biodegradation Rate on Forced Air Biopiles

Important Note: This page uses a nonproportional font and characters that are unique to WordPerfect. If the user received this document electronically, this page may need to be converted to a different font for the formulas to print correctly. The original font used for this page was prestige elite with 16.67 characters per inch.

Assumptions:

- The measurements at the stack are as follows:
  - -- Average flow rate is 20 scfm.
  - -- Average oxygen level extracted from biopile is 14.0 percent by volume.
  - -- Average carbon dioxide level extracted from biopile is 3.5 percent by volume or 35,000 ppm_V.
- Atmospheric air contains 21 percent oxygen by volume and 400 ppm_V (or 0.04 percent) carbon dioxide. (Note: On each site visit, the consultant should check atmospheric air to assure that the instrument is spanned correctly.)
- Atmospheric air weight 0.0763 pounds per cubic foot at standard temperature and pressure (Gibbs, 1971).
- Average molecular weight of air is 28.97 (Gibbs, 1971) which is rounded off to 29, molecular weight of O_2 is 32, molecular weight of CO_2 is 44.
- For every pound of contaminants biodegraded, 3.3 pounds of oxygen is utilized and up to 3.2 pounds of carbon dioxide is generated.
  - -- The stoichiometry of aerobic benzene biodegradation can be described as follows:

    $$C_6H_6 + 7.5\ O_2 \text{ -- -- --> } 6\ CO_2 + 3\ H_2O$$

    Based on this, benzene biodegradation requires that 3.07 pounds of oxygen are utilized to fully oxidize one pound of benzene, assuming no electron acceptors other than oxygen are used. Assuming no biomass is produced and no geochemical reactions consume carbon dioxide, 3.38 pounds of carbon dioxide is generated from one pound of benzene.
  - -- The stoichiometry of aerobic hexane biodegradation can be described as follows:

    $$C_6H_{14} + 9.5\ O_2 \text{ -- -- --> } 6\ CO_2 + 7\ H_2O$$

    Based on the above assumptions, hexane biodegradation requires 3.52 pounds of oxygen and generates up to 3.06 pounds of carbon dioxide.

  Other hydrocarbons also require a similar ratio of oxygen for aerobic biodegradation. For purposes of this guidance it is assumed that a pound of petroleum contamination requires 3.3 pounds of oxygen and generates up to 3.2 pounds of carbon dioxide and 1.1 pounds of water in the biodegradation reaction.

Calculations:

Oxygen utilization rate:

$$(0.21 - 0.14) * \frac{32 \text{ pounds}}{29} * 0.0763 \frac{ft^3}{ft^3} * 20 \frac{min}{min} * 60 \frac{min}{hour} * \frac{pounds}{hour} = 7.07$$

Carbon dioxide production rate:

$$(0.035 - 0.0004) * \frac{44 \text{ pounds}}{29} * 0.0763 \frac{ft^3}{ft^3} * 20 \frac{min}{min} * 60 \frac{min}{hour} * \frac{pounds}{hour} = 4.81$$

Calculations (Continued):

Biodegradation rate based on oxygen:

7.07 / 3.3 = 2.1 pounds per hour

Biodegradation rate based on carbon dioxide:

4.81 / 3.2 = 1.5 pounds per hour

Since the biodegradation rate is based on oxygen utilization and/or carbon dioxide generation, it is a measure of the overall biodegradation rate of all carbon sources, including natural organic carbon and any organic materials that were added. For this reason, the biodegradation rate is not specific to hydrocarbons and it is likely that the measured biodegradation rate will overestimate the rate of contaminant reduction.

Commonly the measured biodegradation rate based on carbon dioxide generation is less than the rate estimated with oxygen. Because of geochemical interferences and biomass formation, estimates based on carbon dioxide measurements are often low. If however the biodegradation rate estimate based on carbon dioxide is significantly greater than the estimate based on oxygen, it is likely that there is a measurement or calculation error. In this way, the carbon dioxide measurements can be used to double check the oxygen measurements and calculations.

ADDITIONAL ATTACHMENTS

FOURTH QUARTER 2017
DISCHARGE MONITORING REPORT

TETRA TECH

DISCHARGE MONITORING REPORT FORM - Contaminated Groundwater
WPDES PERMIT NO. WI-0046566-06 **YEAR:** 2017
DMR-Petroleum to Surface Water Revised 12/2012

PERMITTEE NAME: Former Sta-Rite Facility (FIN: 38253)
ADDRESS: 40 West Nelson Street, Deerfield, WI

Outfall Number	001	001	001	001	001	001	001
Sample Point Description	System Effluent	System Effluent	System Effluent	System Effluent	System Effluent	System Effluent	System Effluent
Parameter Name	Sample Date	Flow	TCE	TCA	Vinyl Chloride	Total BETX	Total System Flow
Parameter Units	mm/dd/year	Gal./Day	ug/1	ug/1	ug/1	ug/1	Gallons
January	1/17/2017	30,433					185,071,963
February	2/21/2017	30,442					186,137,035
March	3/1/2017	30,319	2.1	<0.38	<0.20	<0.70	186,375,590
April	4/25/2017	31,338					188,050,725
May	5/17/2017	30,836	2.3	<0.38	<0.20	<0.70	188,729,124
June	6/23/2017	29,401					189,782,848
July	7/20/2017	24,836					190,606,192
August	8/23/2017	28,368					191,611,588
September	9/5/2017	27,936	1.4	<0.38	<0.20	<0.70	191,972,621
October	10/31/2017	26,256					193,463,993
November	11/15/2017	26,352	1.4	<0.38	<0.20	<0.70	193,862,966
December	12/26/2017	26,299					194,850,939
Daily Maximum Limit			**50**	**50**	**10**	**750**	
Sample Type		Estimate	Grab	Grab	Grab	Grab	
Frequency of Sampling		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly

Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day.

Authorized per WISCONSIN STATUTE 283.55

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ATTACHMENTS AND THAT, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THAT THE INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINES AND IMPRISONMENT, (40 CFR 122.5). I ALSO CERTIFY THAT THE VALUES BEING SUBMITTED ARE THE ACTUAL VALUES FOUND IN THE SAMPLES; NO VALUES HAVE BEEN MODIFIED OR CHANGED IN ANY MANNER. WHEREVER I BELIEVE A VALUE BEING REPORTED IS INACCURATE, I HAVE ADDED AN EXPLANATION INDICATING THE REASONS WHY THE VALUE IS INACCURATE.

PLEASE ATTACH NOTES AND/OR ADDRESS-NAME CORRECTIONS ON A SEPARATE SHEET

RETURN REPORT NO LATER THAN: January 15th for annual reporting

SEND TO: **ATTN: Alan Hopfensperger**
Department of Natural Resources
3911 Fish Hatchery Rd.
Fitchburg, WI 53711

Signature of Person Completing Form — Date: 1/5/2018

Signature of Principal Exec. Officer or Authorized Agent Title — Date

DISCHARGE MONITORING REPORT FORM - Contaminated Groundwater **PERMITTEE NAME:** **Former Sta-Rite Facility (FIN: 38253)**
WPDES PERMIT NO. WI-0046566-06 **YEAR:** 2017 **ADDRESS:** **40 West Nelson Street, Deerfield, WI**
DMR-Petroleum to Surface Water Revised 12/2012

Outfall Number	**001**	**001**	**001**	**001**	**001**	**001**	**001**
Sample Point Description	**System Effluent**	**System Effluent**	**System Effluent**	**System Effluent**	**System Effluent**	**System Effluent**	**System Effluent**
Parameter Name	**Sample Date**	**Flow**	**TCE**	**TCA**	**Vinyl Chloride**	**Total BETX**	**Total System Flow**
Parameter Units	**mm/dd/year**	**Gal./Day**	**ug/1**	**ug/1**	**ug/1**	**ug/1**	**Gallons**
January	1/17/2017	30,433					185,071,963
February	2/21/2017	30,442					186,137,035
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August	8/23/2017	28,368					191,611,588
September	9/5/2017	27,936	1.4	<0.38	<0.20	<0.70	191,972,621
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December	12/26/2017	26,299					194,850,939
Daily Maximum Limit			**50**	**50**	**10**	**750**	
Sample Type		Estimate	Grab	Grab	Grab	Grab	
Frequency of Sampling		Quarterly	Quarterly	Quarterly	Quarterly	Quarterly	Quarterly

Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day.

Authorized per WISCONSIN STATUTE 283.55

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RETURN REPORT NO LATER THAN: January 15th for annual reporting

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SEND TO: **ATTN: Alan Hopfensperger**
Department of Natural Resources
3911 Fish Hatchery Rd.
Fitchburg, WI 53711

Signature of Person Completing Form  Date 1/5/2018

Signature of Principal Exec. Officer or Authorized Agent Title Date

System Operation Notes:

1. The groundwater remediation system was shut-down for 7 hours and 5 minutes on August 23rd to install a new Badger Meter Model 35 flow meter on the groundwater discharge line as the original meter stopped operating on or before July 20th. New particulate filters were also installed on the groundwater influent line and a new air filter was installed on the air stripper blower motor inlet on August 23rd.
2. The groundwater remediation system experienced an automatic shut-down at approximately 11:43 am on September 11th due to a high air stripper sump water level alarm and a high blower motor pressure alarm. The alarm conditions were checked and cleared by Tetra Tech personnel and the groundwater remediation system was re-started the same day 5:25 pm.
3. The groundwater remediation system automatically shut down at approximately 11:10 pm on October 26th due to a high air stripper sump water level alarm and high blower pressure alarm. The alarm conditions were cleared by Tetra Tech personnel and the remediation system was re-started at 10:45 am on October 27th.
4. A temporary power interruption caused a shut-down of the groundwater remediation system at approximately 4:30 pm on November 16th. Tetra Tech personnel re-started the remediation system at 8:30 am on November 17th.
5. Another temporary power interruption shut down the groundwater remediation system at approximately 3:20 on November 25th. Tetra Tech personnel re-started the remediation system at 5:00 pm on November 27th.

TETRA TECH REMEDIATION SYSTEM FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Sta-Rite Deerfield Remedial Action	Temp. & pH	Hanna
PROJECT NO.	117-7469001.02	Conductivity	Hanna
LOCATION	Deerfield, Wisconsin	ORP	NA
PERSONNEL	Todd M Thomson	DO	NA

SAMPLE ID		Influent	Effluent		
WATER TYPE		Groundwater	Groundwater		
DATE (month/day/year)		11-15-17	11-15-17		
CLOCK TIME (Military)		15:25	15:35		
EXTRACTION WELL DEPTH (feet below top of well casing)		115	115		
FLOW METER READING (gallons)		225168	225870		
FLOW RATE (gpm)		18.2	18.2		
SAMPLING DEVICE		Sample tap before particulate filters.	Sample tap after air stripper.		
FIELD TEMPERATURE (°C)		13.1	12.7		
pH		7.25	8.23		
ELEC. COND. (uS/cm)	Measured	NA	NA		
	at 25° C	1044	1046		
COLOR		CLEAR	CLEAR		
ODOR		NONE	NONE		
CLARITY		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)			
TCE, 1,1,1-TCA, 1,1,2-TCA vinyl chloride & BETX (EPA Method SW 8260B)	3-40 ml; G; HCL-L; No	3-40 ml; G; HCL-L; No		

Note: TCE = Trichloroethene TCA = Trichloroethane
BETX = Benzene, Ethylbenzene, Toluene and Xylenes

NAME OF LABORATORY	Test America	Test America		
DATE SENT TO LAB	11-17-17	11-17-17		
SAMPLER'S NAME	Todd Thomson	TmT		

TETRA TECH

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-133648-1
Client Project/Site: Pentair Deerfield - 117-7469001.02

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

Attn: Mr. Mark Manthey

Sandie Fredrick

Authorized for release by:
9/12/2017 9:37:43 AM

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

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Job ID: 500-133648-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-133648-1

Comments
No additional comments.

Receipt
The samples were received on 9/7/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º 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 Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Client Sample ID: INFLUENT — Lab Sample ID: 500-133648-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.2		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	130		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: EFFLUENT — Lab Sample ID: 500-133648-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.4		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-133648-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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 = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-133648-1	INFLUENT	Ground Water	09/05/17 14:35	09/07/17 10:30
500-133648-2	EFFLUENT	Ground Water	09/05/17 14:40	09/07/17 10:30
500-133648-3	TRIP BLANK	Water	09/05/17 00:00	09/07/17 10:30

Client Sample ID: INFLUENT

Lab Sample ID: 500-133648-1
Date Collected: 09/05/17 14:35
Matrix: Ground Water
Date Received: 09/07/17 10:30

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			09/11/17 20:18	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/11/17 20:18	1
Toluene	<0.15		0.50	0.15	ug/L			09/11/17 20:18	1
1,1,1-Trichloroethane	**5.2**		1.0	0.38	ug/L			09/11/17 20:18	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/11/17 20:18	1
Trichloroethene	**130**		0.50	0.16	ug/L			09/11/17 20:18	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/11/17 20:18	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/11/17 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*09/11/17 20:18*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*09/11/17 20:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*09/11/17 20:18*	*1*
Toluene-d8 (Surr)	*98*		*75 - 120*		*09/11/17 20:18*	*1*

Client Sample ID: EFFLUENT

Lab Sample ID: 500-133648-2
Date Collected: 09/05/17 14:40
Matrix: Ground Water
Date Received: 09/07/17 10:30

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			09/11/17 20:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/11/17 20:44	1
Toluene	<0.15		0.50	0.15	ug/L			09/11/17 20:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/11/17 20:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/11/17 20:44	1
Trichloroethene	**1.4**		0.50	0.16	ug/L			09/11/17 20:44	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/11/17 20:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/11/17 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*09/11/17 20:44*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*09/11/17 20:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*09/11/17 20:44*	*1*
Toluene-d8 (Surr)	*99*		*75 - 120*		*09/11/17 20:44*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-133648-3
Date Collected: 09/05/17 00:00
Matrix: Water
Date Received: 09/07/17 10:30

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			09/11/17 21:10	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/11/17 21:10	1
Toluene	<0.15		0.50	0.15	ug/L			09/11/17 21:10	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/11/17 21:10	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/11/17 21:10	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/11/17 21:10	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/11/17 21:10	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/11/17 21:10	1

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Client Sample ID: TRIP BLANK
Date Collected: 09/05/17 00:00
Date Received: 09/07/17 10:30

Lab Sample ID: 500-133648-3
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		72 - 124		09/11/17 21:10	1
Dibromofluoromethane	100		75 - 120		09/11/17 21:10	1
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		09/11/17 21:10	1
Toluene-d8 (Surr)	102		75 - 120		09/11/17 21:10	1

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

GC/MS VOA

Analysis Batch: 400936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-133648-1	INFLUENT	Total/NA	Ground Water	8260B	
500-133648-2	EFFLUENT	Total/NA	Ground Water	8260B	
500-133648-3	TRIP BLANK	Total/NA	Water	8260B	
MB 500-400936/7	Method Blank	Total/NA	Water	8260B	
LCS 500-400936/5	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

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

Matrix: Ground Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-133648-1	INFLUENT	101	100	95	98
500-133648-2	EFFLUENT	102	101	94	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-133648-3	TRIP BLANK	101	100	95	102
LCS 500-400936/5	Lab Control Sample	97	100	95	98
MB 500-400936/7	Method Blank	101	101	95	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 500-400936/7
Matrix: Water
Analysis Batch: 400936

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			09/11/17 16:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			09/11/17 16:23	1
Toluene	<0.15		0.50	0.15	ug/L			09/11/17 16:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			09/11/17 16:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			09/11/17 16:23	1
Trichloroethene	<0.16		0.50	0.16	ug/L			09/11/17 16:23	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			09/11/17 16:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			09/11/17 16:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*09/11/17 16:23*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*09/11/17 16:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*09/11/17 16:23*	*1*
Toluene-d8 (Surr)	*101*		*75 - 120*		*09/11/17 16:23*	*1*

Lab Sample ID: LCS 500-400936/5
Matrix: Water
Analysis Batch: 400936

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	44.0		ug/L		88	70 - 120
Ethylbenzene	50.0	43.0		ug/L		86	70 - 120
m&p-Xylene	50.0	42.5		ug/L		85	70 - 125
o-Xylene	50.0	43.0		ug/L		86	70 - 120
Toluene	50.0	42.2		ug/L		84	70 - 125
1,1,1-Trichloroethane	50.0	45.1		ug/L		90	70 - 125
1,1,2-Trichloroethane	50.0	42.0		ug/L		84	70 - 122
Trichloroethene	50.0	45.2		ug/L		90	70 - 125
Vinyl chloride	50.0	45.8		ug/L		92	64 - 126
Xylenes, Total	100	85.6		ug/L		86	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Client Sample ID: INFLUENT
Date Collected: 09/05/17 14:35
Date Received: 09/07/17 10:30

Lab Sample ID: 500-133648-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	400936	09/11/17 20:18	PMF	TAL CHI

Client Sample ID: EFFLUENT
Date Collected: 09/05/17 14:40
Date Received: 09/07/17 10:30

Lab Sample ID: 500-133648-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	400936	09/11/17 20:44	PMF	TAL CHI

Client Sample ID: TRIP BLANK
Date Collected: 09/05/17 00:00
Date Received: 09/07/17 10:30

Lab Sample ID: 500-133648-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	400936	09/11/17 21:10	PMF	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-133648-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-133648

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 2.9

500-133648 COC

Report To (optional)	Bill To (optional)
Contact: MARK MANTHEY	Contact: SAME AS REPORT TO :
Company: TETRA TECH	Company:
Address: 175N. CORPORATE DR. SUITE 100	Address:
Address: BROOKFIELD, WI 53045	Address:
Phone: (262) 792-1282	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: TETRA TECH
Client Project #: 117-7469001.02
Project Name: PENTAIR DEERFIELD
Project Location/State: DEERFIELD, WI.
Lab Project #:
Sampler: TODD M. THOMSON
Lab PM: SANDIE FREDRICK

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: TCE	1,1-TCA	1,1,2-TCA	VINYL CHLORIDE	BTEX	8260B	Comments
			20	17			1							
1		INFLUENT	9-5	14:35	3	GW		✓	✓	✓	✓	✓		
2		EFFLUENT	9-5	14:40	3	GW		✓	✓	✓	✓	✓		
3		TRIP BLANK	—	—	1	DI		✓	✓	✓	✓	✓		LAB PREPARED

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: STANDARD

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TETRA TECH	9-6-17	10:00		TA	9-6-17	10:00
	TA	9-6-17	1600		TA	09/07/17	1030

Lab Courier:
Shipped: FEDEX
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

9/12/2017

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-133648-1

Login Number: 133648
List Number: 1
Creator: Kelsey, Shawn M

List Source: 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	2.9c
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	

FIGURES

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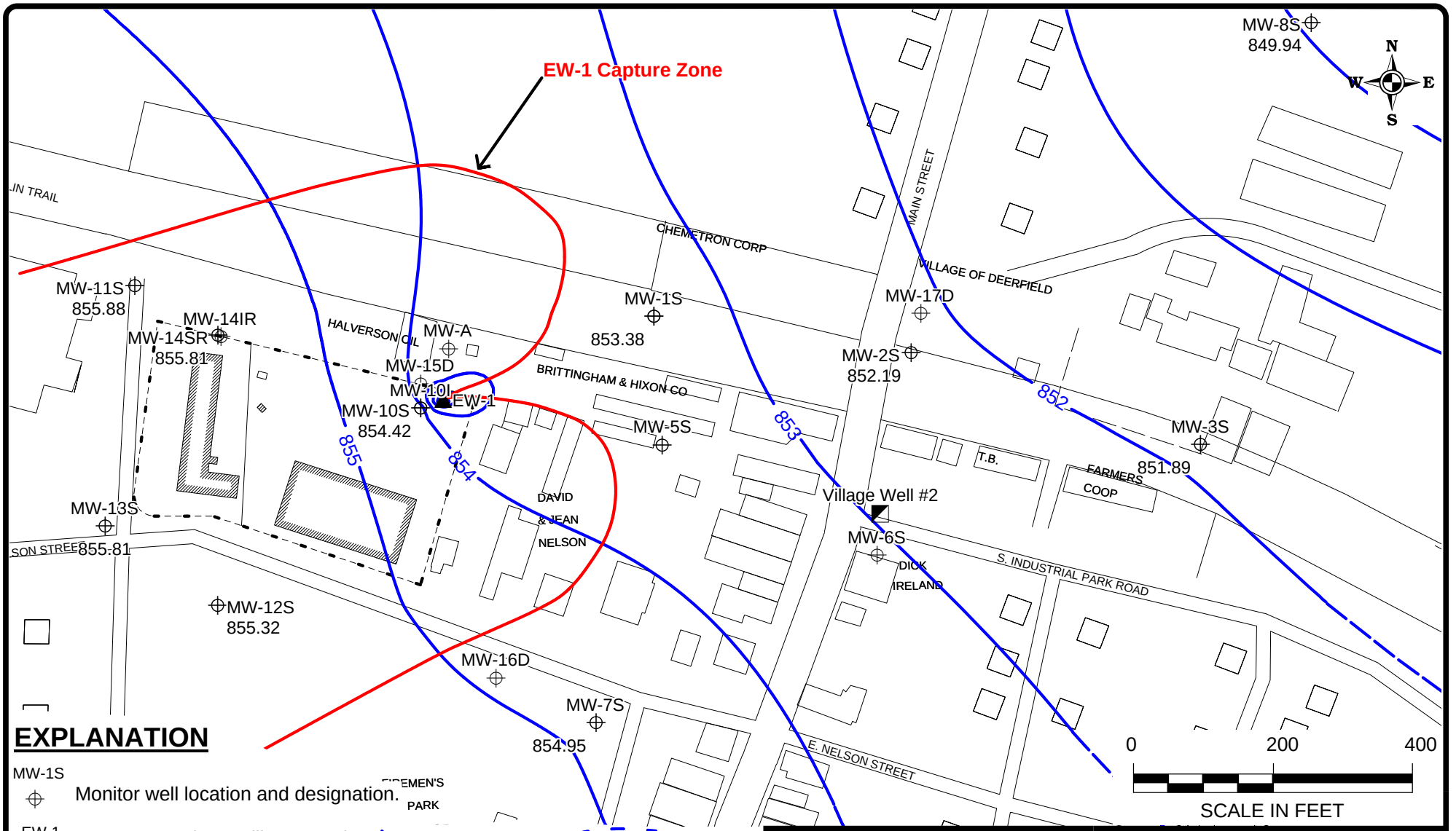


EXPLANATION

MW-1S — Monitor well location and designation.

EW-1 — Former Sta-Rite Facility extraction well location and designation.

Village of Deerfield water supply well location.

852.26 — Groundwater elevation measured in shallow ("S" designation) monitor wells on May 17 - 18, 2017.

854 — Groundwater elevation contour, dashed where inferred (feet MSL).

Contour Interval: 1 foot
Datum: Mean Sea Level (MSL)

TITLE:
FORMER STA-RITE FACILITY
MAY 2017 GROUNDWATER CONTOUR MAP

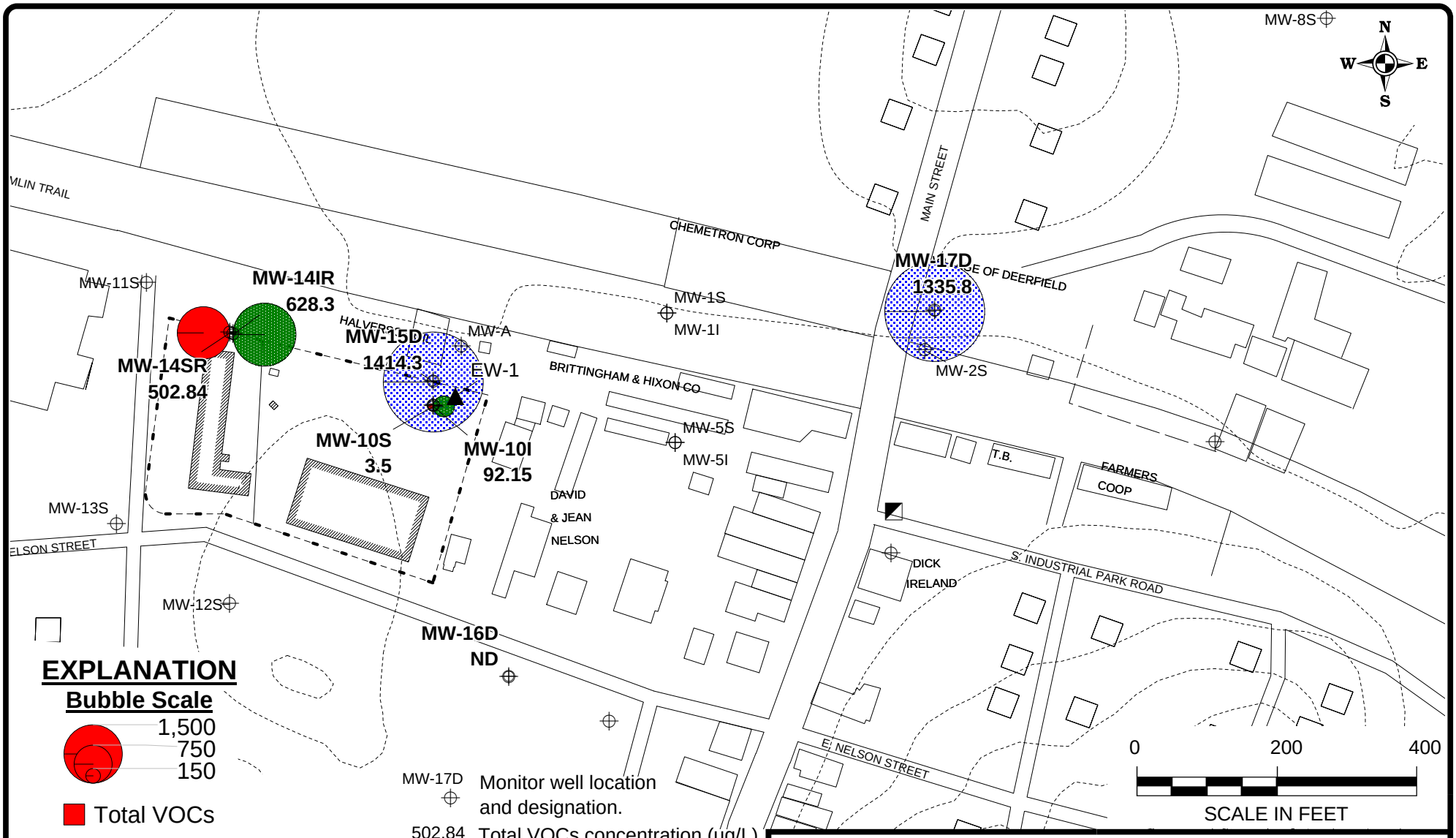
LOCATION:
38 W. NELSON STREET, DEERFIELD, WISCONSIN

TETRA TECH

CHECKED	M.A.M.
DRAFTED	M.A.M.
FILE	Fig1_GW_Elev17.WOR
DATE	1/26/2018

FIGURE: 1

P:\StaRite\Deerfield\Gis\2017-2018 data\Fig2_GWChem2017.WOR



TITLE:

TOTAL VOCs BUBBLE PLOTS FORMER STA-RITE FACILITY

LOCATION:

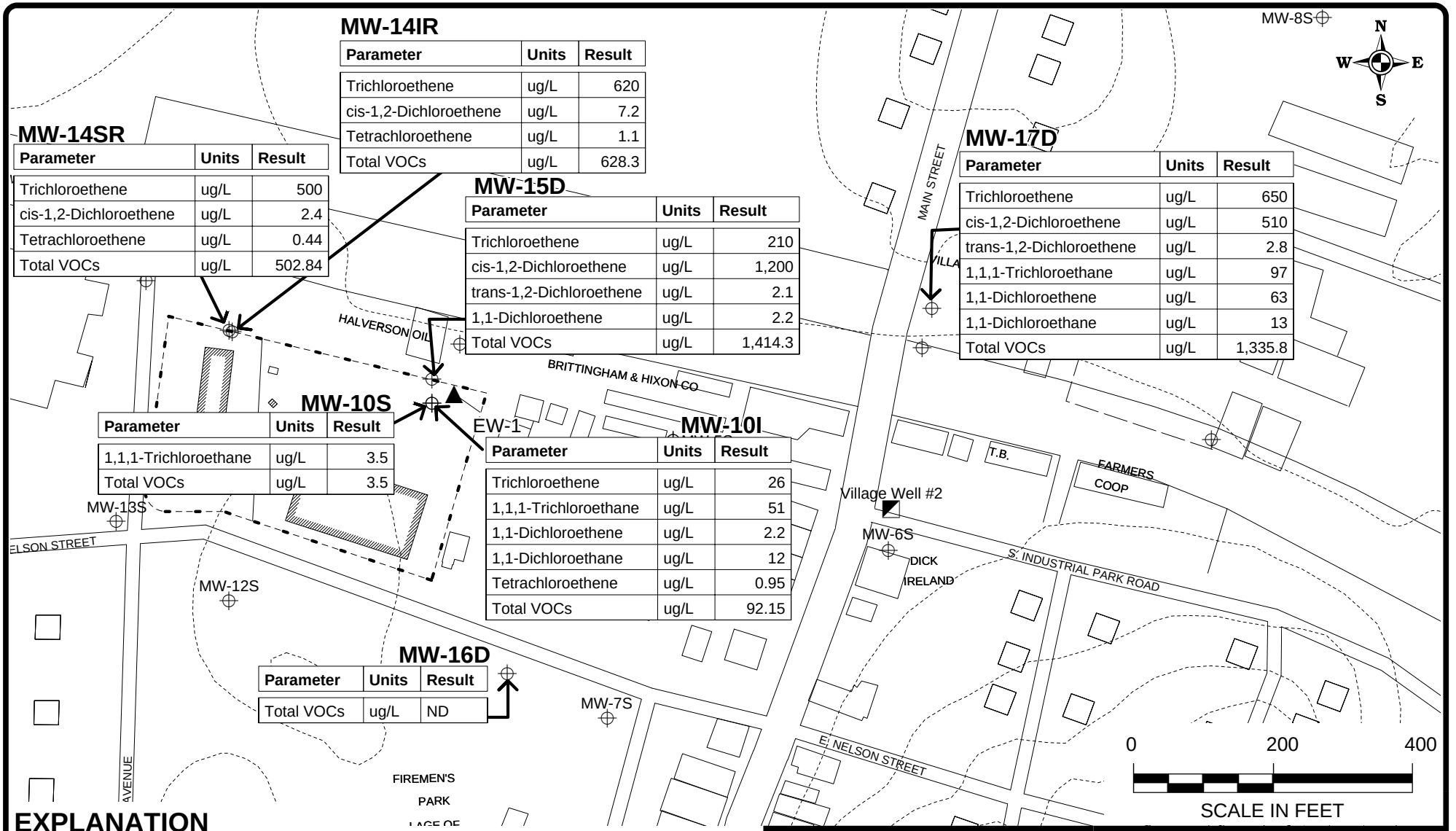
38 W. NELSON STREET, DEERFIELD, WISCONSIN

TETRA TECH

CHECKED	M.A.M.
DRAFTED	M.A.M.
FILE	Fig2_GWChem2017.WOR
DATE	1/26/2018

FIGURE: 2

P:\StaRite\Deerfield\Gis\2015-2016_data\Fig3_TVOCs2016.WOR



EXPLANATION

MW-10S — Monitor well location and designation.

EW-1 ▲ — Former Sta-Rite facility extraction well location and designation.

◩ — Village of Deerfield water supply well location.

ND — No VOCs detected in sample.

Topographic contour line. Contour Interval: 10 feet

Note:
Analytical data from November 2017 sampling round.

TITLE:
FORMER STA-RITE FACILITY
2017 CONTAMINANT DISTRIBUTION MAP

LOCATION:
38 W. NELSON STREET, DEERFIELD, WISCONSIN

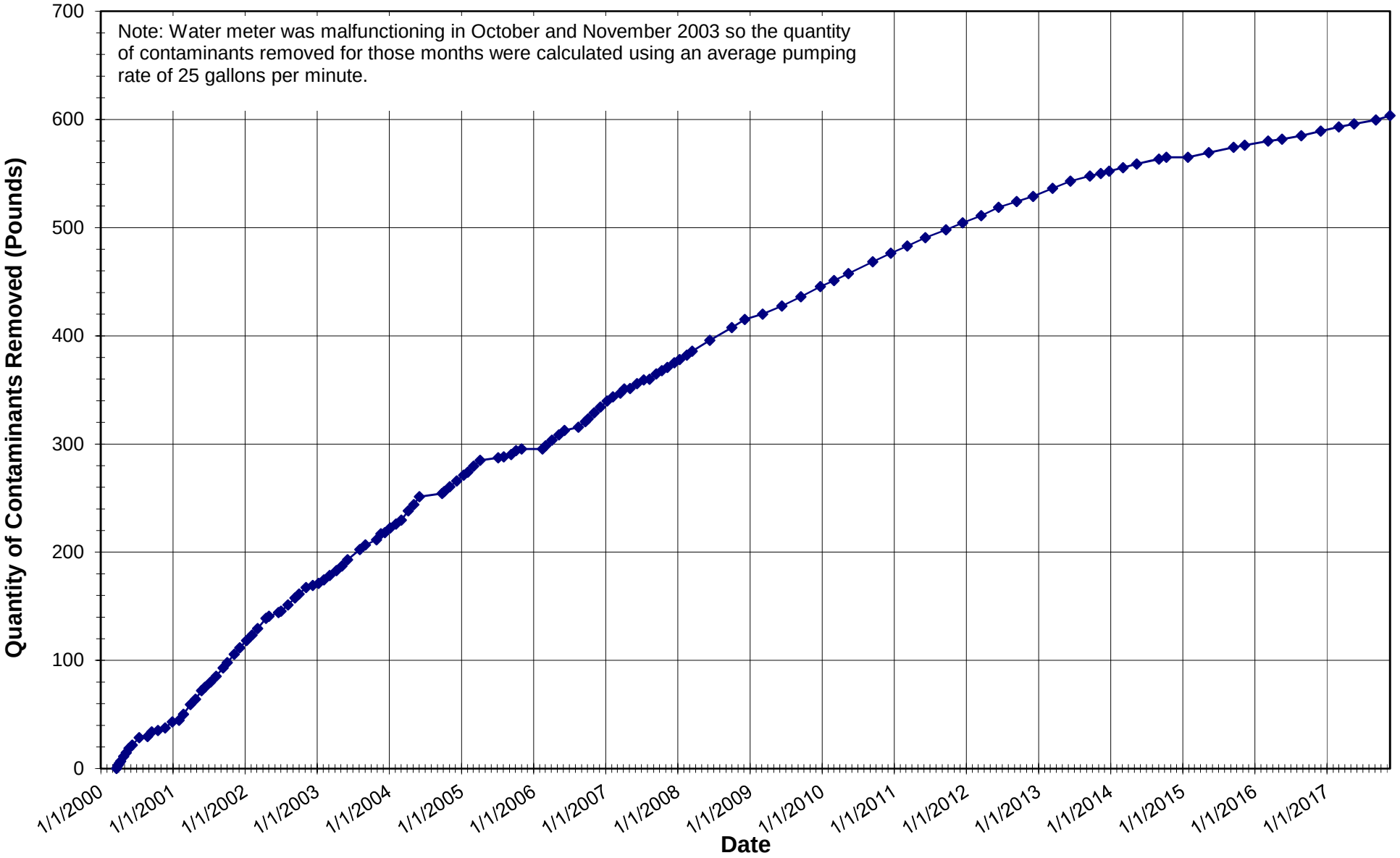
TETRA TECH

CHECKED	M.A.M.
DRAFTED	M.A.M.
FILE	Fig3_TVOCs2017.WOR
DATE	1/26/2018

FIGURE: 3

GRAPHS

Former Sta-Rite Facility Deerfield, Wisconsin
Groundwater Extraction and Treatment System
Cumulative Dissolved-Phase Contaminants Removed



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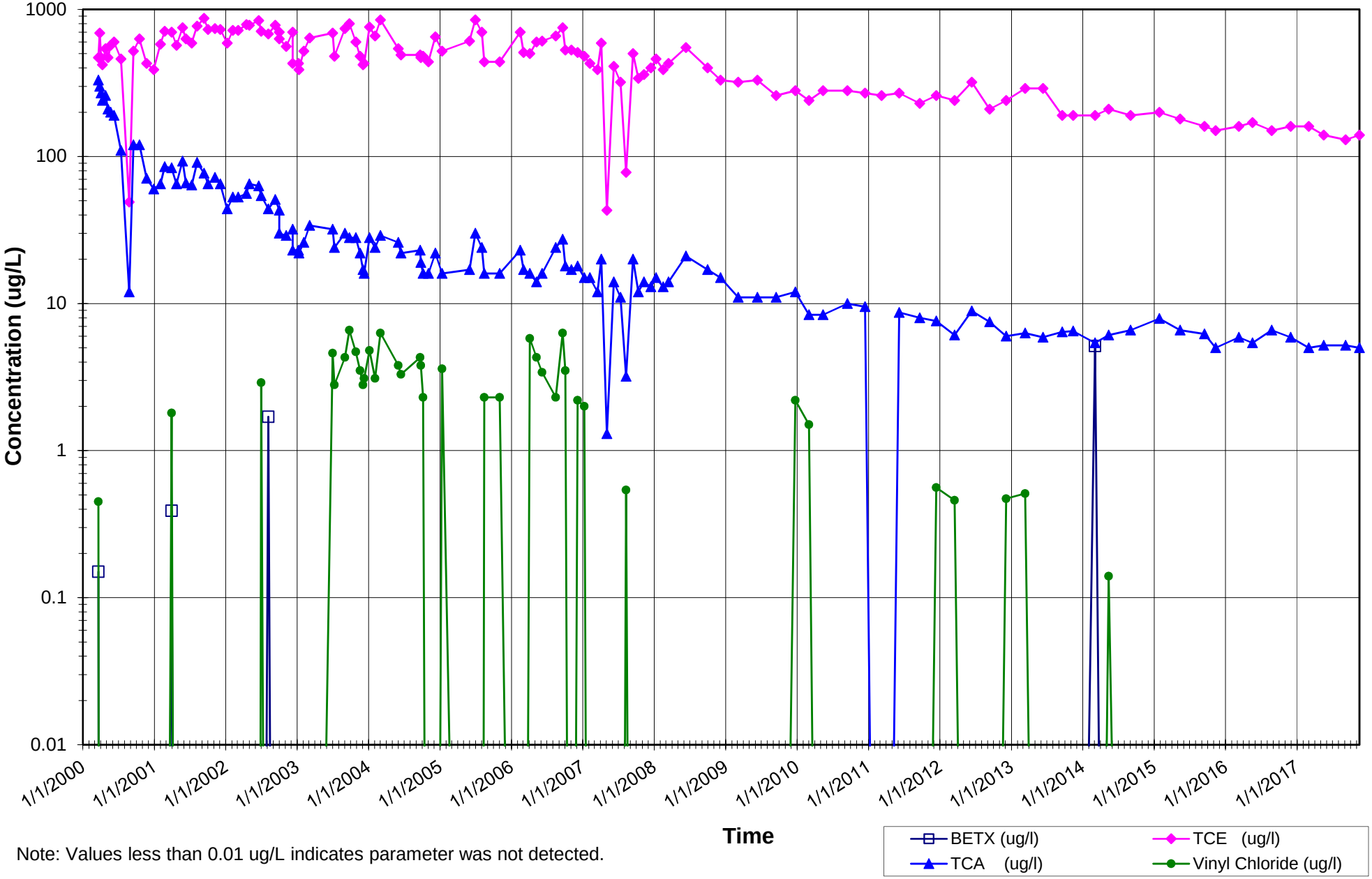
Former Sta-Rite Facility Deerfield, Wisconsin
Groundwater Extraction and Treatment System Influent Concentrations



Note: Values less than 0.01 ug/L indicates parameter was not detected.

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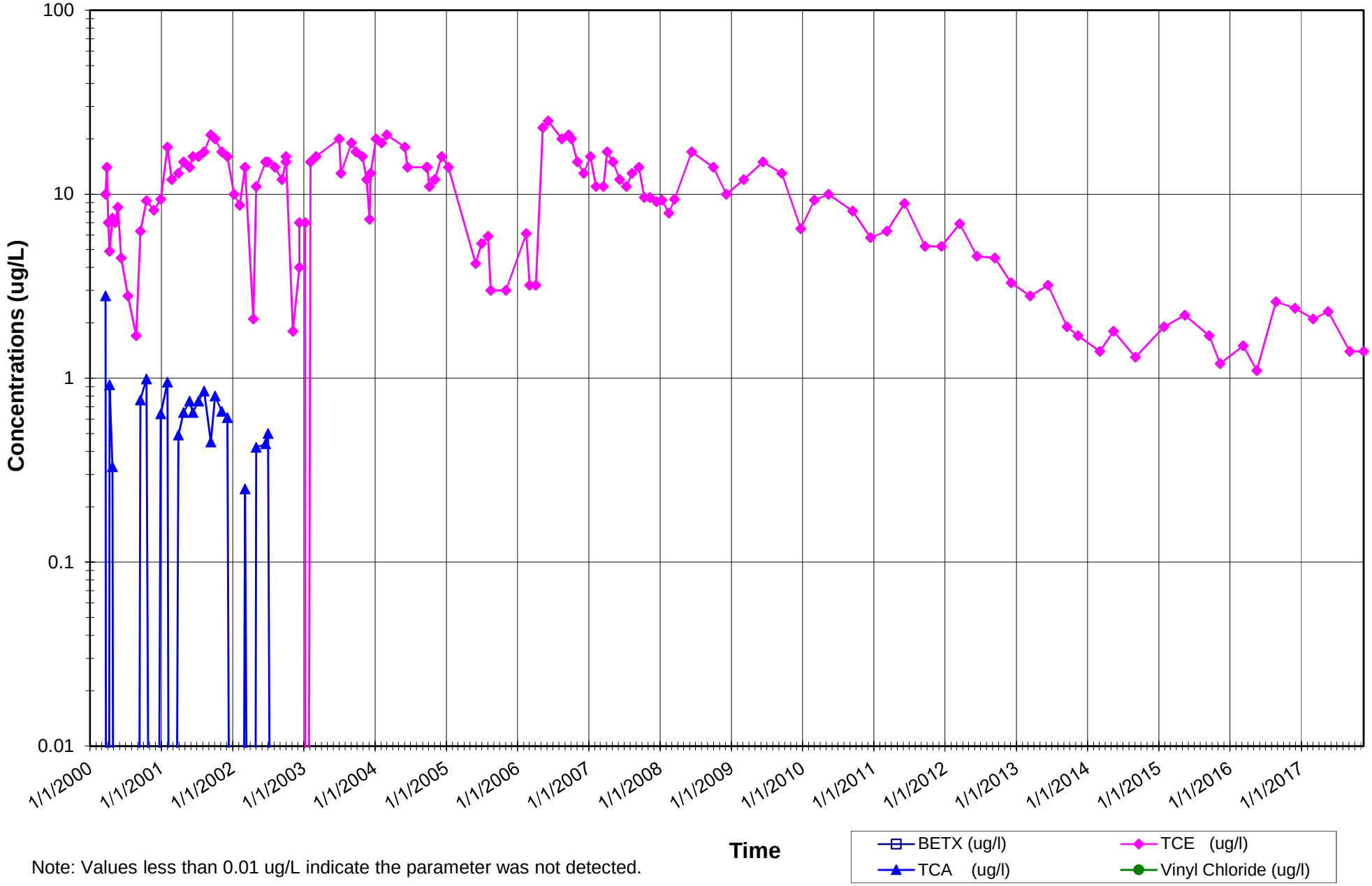
Former Sta-Rite Facility Deerfield, Wisconsin Groundwater Extraction and Treatment System Treated Groundwater Effluent Concentrations



Note: Values less than 0.01 ug/L indicate the parameter was not detected.

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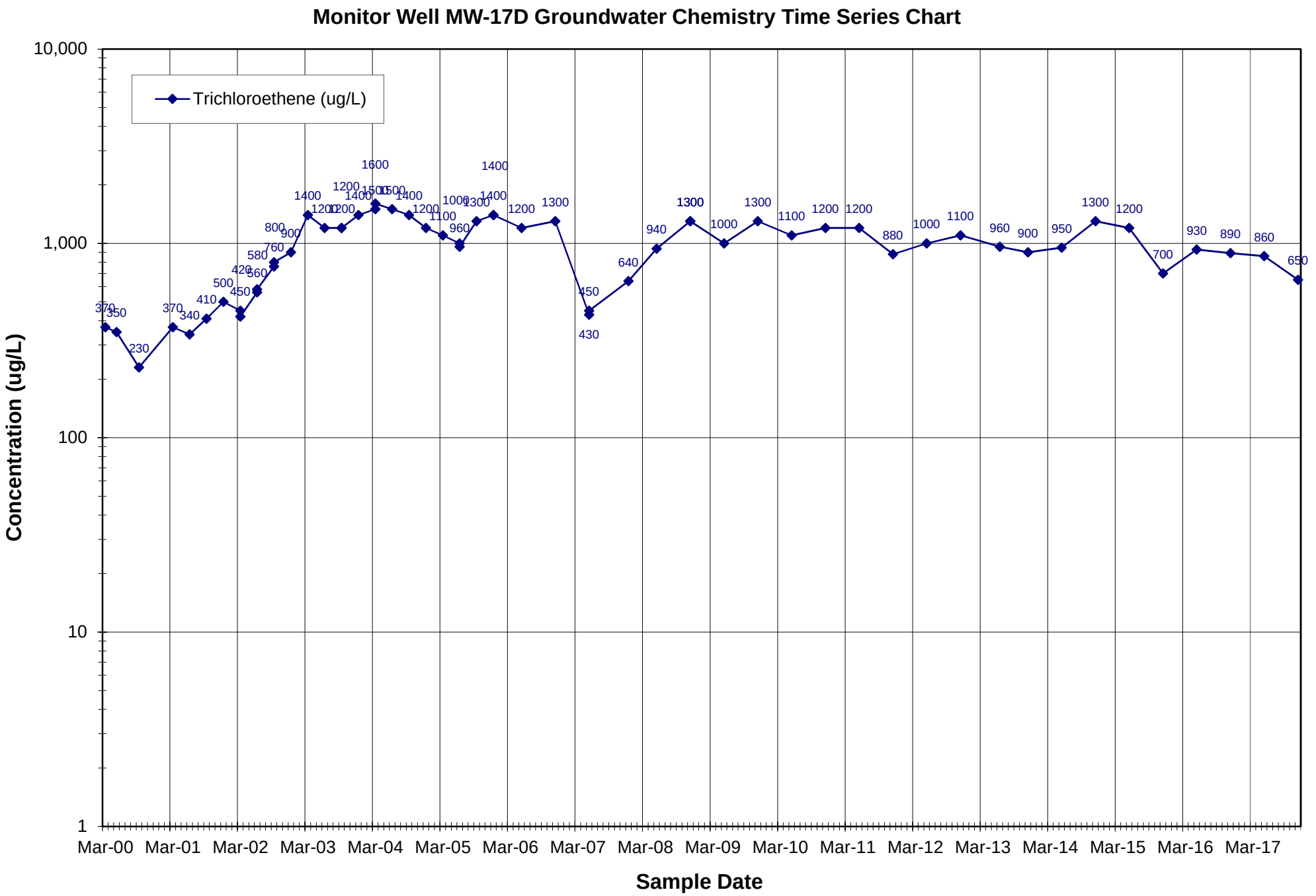
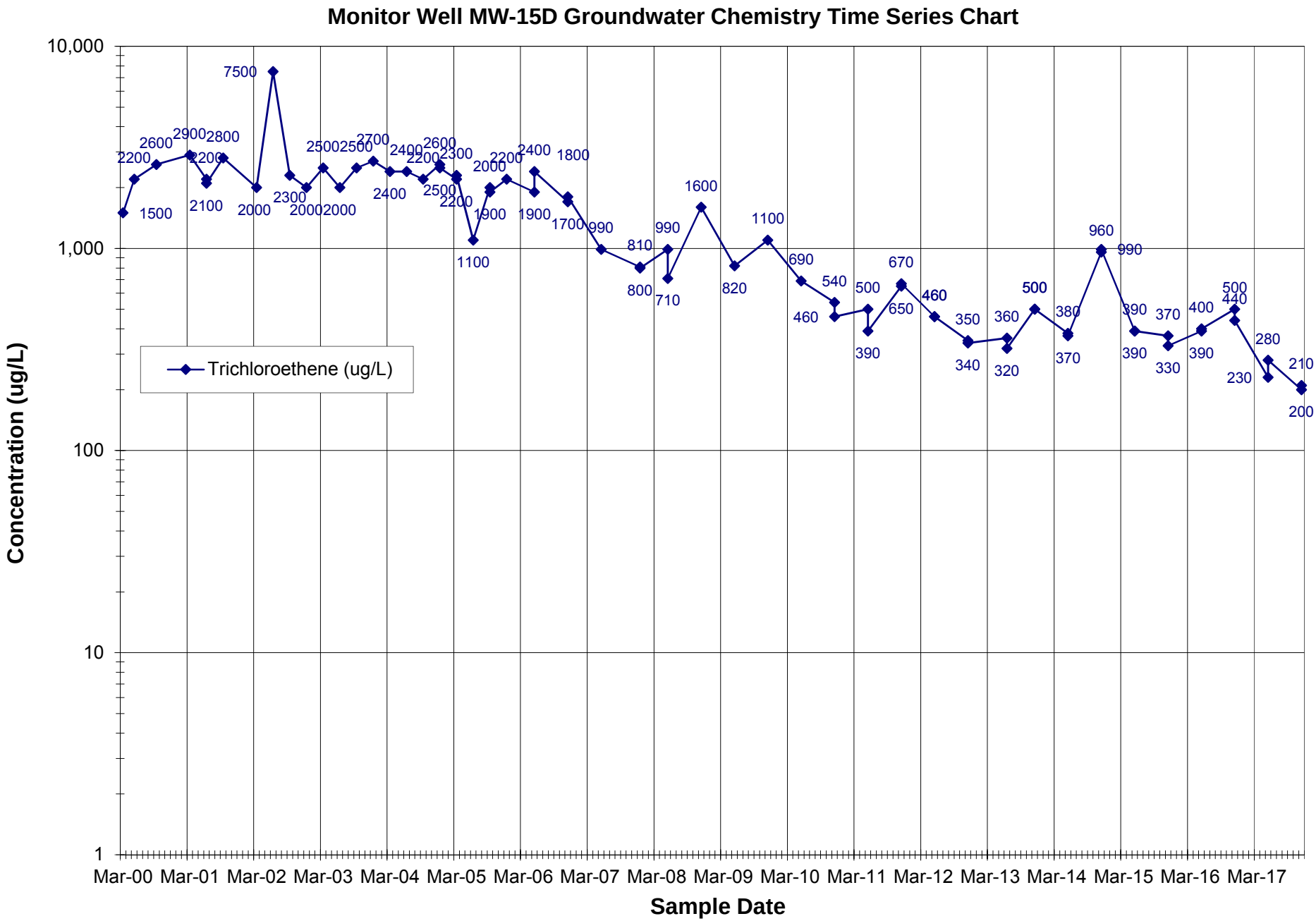

Monitor Well MW-17D Groundwater Chemistry Time Series Chart
Trichloroethene (ug/L)
Concentration (ug/L)
10,000
1,000
100
10
1
Mar-00
Mar-01
Mar-02
Mar-03
Mar-04
Mar-05
Mar-06
Mar-07
Mar-08
Mar-09
Mar-10
Mar-11
Mar-12
Mar-13
Mar-14
Mar-15
Mar-16
Mar-17
Sample Date



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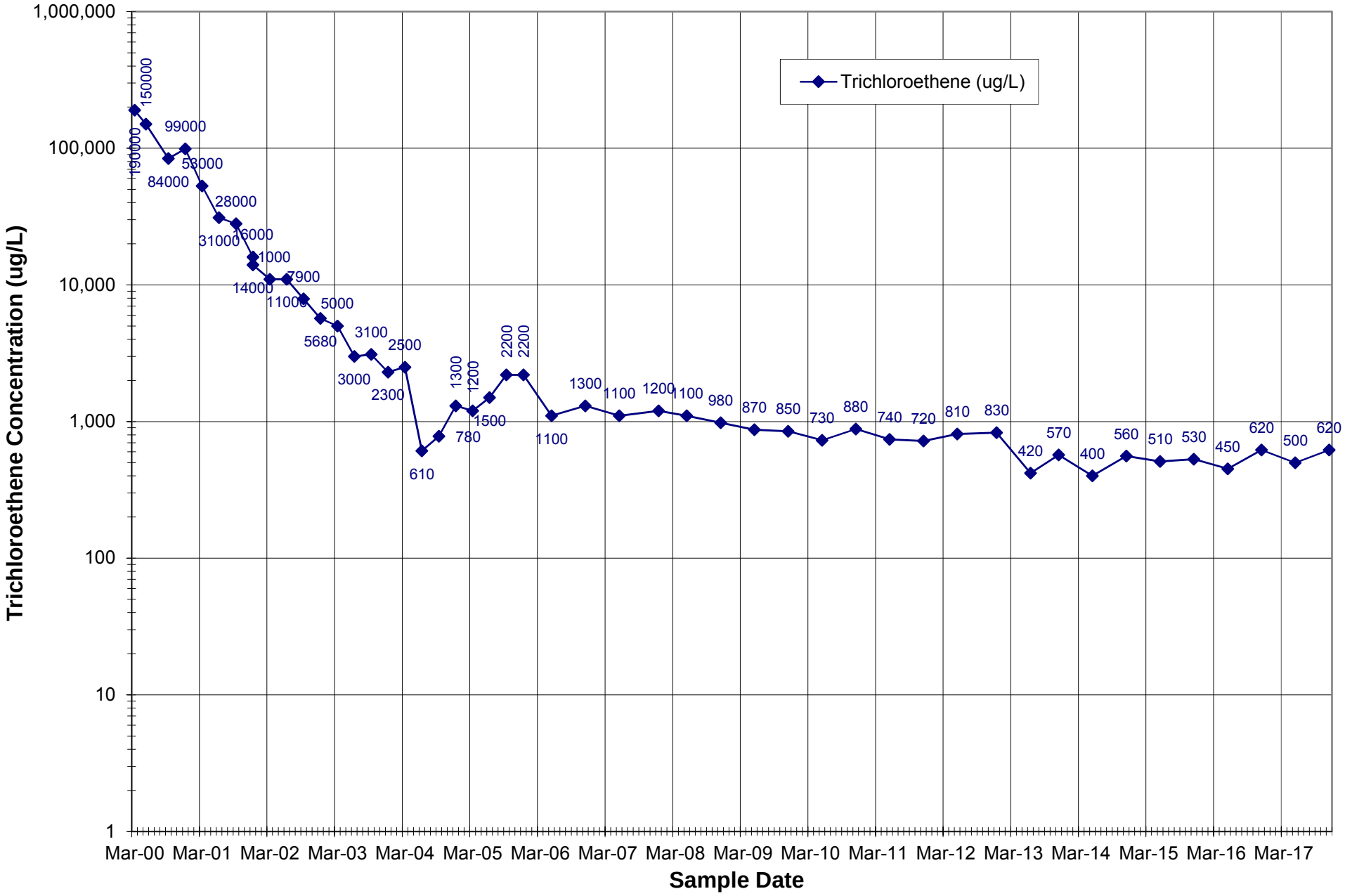
Former Sta-Rite Facility
Deerfield, Wisconsin
MW-14IR Groundwater Chemistry Chart



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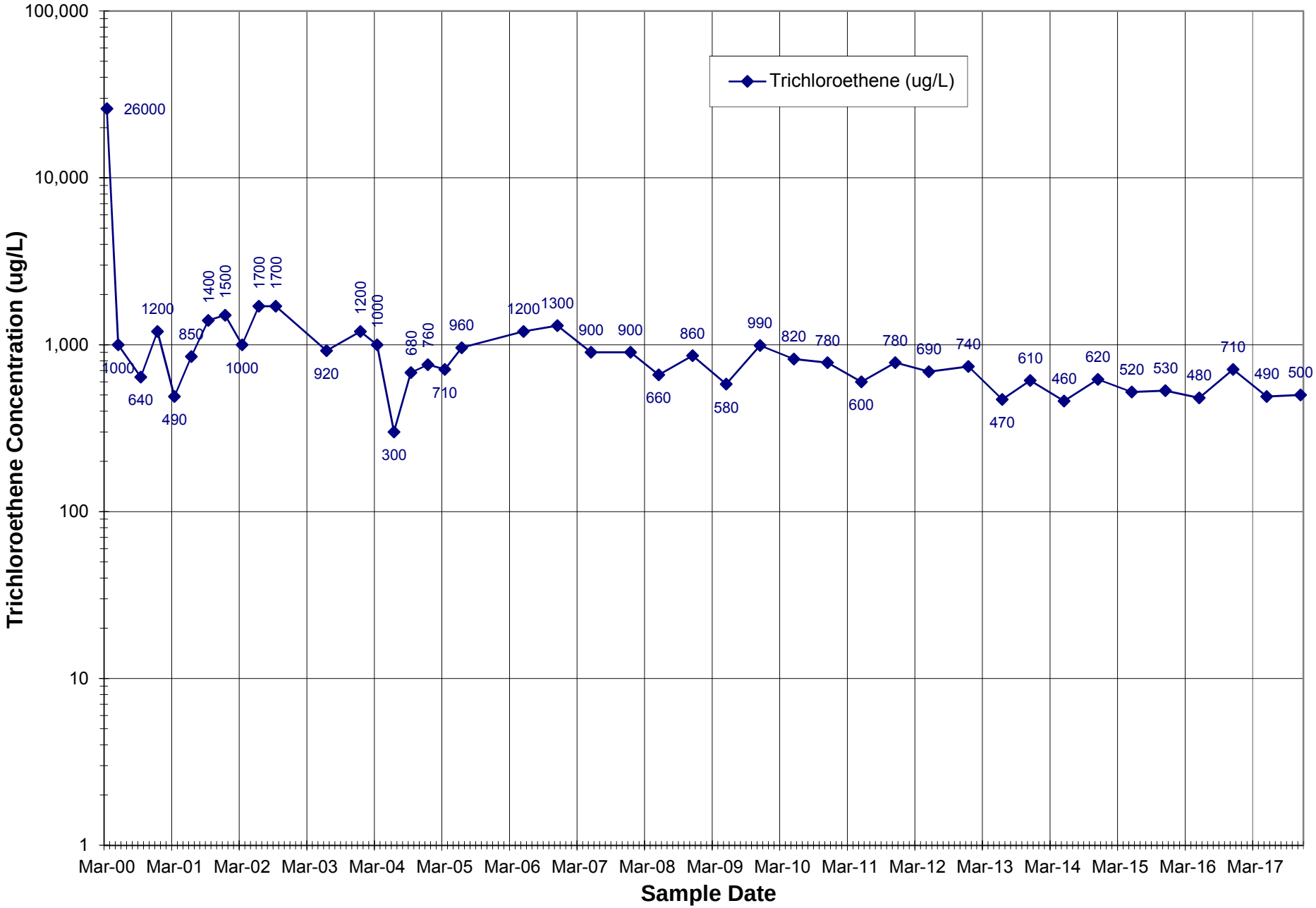
Former Sta-Rite Facility
Deerfield, Wisconsin
MW-14SR Groundwater Chemistry Time Series Chart



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TABLES

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
3/20/2000	12:20	0	510	35.0	50,400	1,528,800	<0.25	10.0	2.8	<0.25	0.15	470	330	0.45	10.2	1051	7.8	10.2	1049	7.0
3/27/2000	14:40	10,220	344,820	33.7	48,513	1,492,010	<0.25	14.0	<0.25	<0.25	<10	690	300	<10	11.2	1065	7.2	11.6	1057	8.0
4/3/2000	13:18	9,998	670,800	32.6	46,951	1,412,580	<0.25	7.0	<0.25	<0.25	<10	470	270	<10	Not Measured			Not Measured		
4/10/2000	12:10	10,012	995,260	32.4	46,666	1,405,993	<0.25	4.9	0.9	<0.25	<2.5	420	240	<2.5	11.6	1077	7.6	12.0	1102	6.9
4/25/2000	15:45	21,815	1,691,480	31.9	45,957	1,408,637	<0.25	7.4	0.3	<0.25	<5.0	540	260	<5.0	13.7	1094	7.6	15.3	1302	6.7
5/8/2000	11:40	18,475	2,276,850	31.7	45,626	1,368,142	<0.25	7.0	<0.25	<0.25	<5.0	470	210	<5	14.8	1089	7.8	14.5	1104	7.0
5/22/2000	16:45	20,465	2,922,430	31.5	45,426	1,498,597	<0.25	8.5	<0.25	<0.25	<5.0	570	200	<5.0	13.7	1041	7.9	14.1	999	7.1
6/8/2000	11:30	14,475	3,382,990	31.8	45,817	1,393,612	<0.50	4.5	<0.50	<0.50	<6.2	600	190	<6.2	15.5	1044	7.8	17.5	798	6.9
7/13/2000	11:50	50,420	4,822,140	28.5	41,102	1,439,150	<0.70	2.8	<0.50	<0.25	<7.0	460	110	<2.5	15.7	1038	7.9	15.7	1009	6.9
8/24/2000	15:51	60,721	6,597,870	29.2	42,111	1,775,730	<0.70	1.7	<0.50	<0.25	<0.70	49	12	<0.25	17.8	1183	7.6	20.4	1194	6.8
9/15/2000	15:55	31,684	7,411,920	25.7	36,998	814,050	<0.70	6.3	0.76	<0.25	<7.0	520	120	<2.5	14.7	1181	7.9	15.4	1198	7.4
10/16/2000	11:44	44,389	7,634,443	5.0	7,219	222,523	<0.70	9.2	0.99	<0.25	<14.0	630	120	<5.0	16.2	1194	7.6	17.8	1116	7.3
10/17/2000	13:50	1,566	7,678,405	28.1	40,425	266,485	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
10/17/2000	23:26	576	7,694,519	28.0	40,285	282,599	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
11/7/2000	10:00	29,434	7,694,519	0.0	0	0	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
11/7/2000	10:15	15	7,694,950	28.7	41,376	431	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
11/9/2000	12:26	3,011	7,695,420	0.2	225	901	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
11/9/2000	12:43	17	7,695,899	28.2	40,574	1,380	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
11/22/2000	13:50	18,787	8,182,843	25.9	37,324	488,324	<0.70	8.2	<0.50	<0.25	<34.0	430	71	<12	Not Measured			Not Measured		
12/28/2000	11:20	51,690	9,645,440	28.3	40,746	1,950,490	<0.70	9.4	0.64	<0.25	<7.0	390	60	<2.5	10.6	1023	7.7	9.5	1022	7.4
1/31/2001	12:50	49,050	9,922,200	5.6	8,125	276,760	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
1/31/2001	14:42	112	9,925,270	27.4	39,471	279,830	<0.70	18	0.95	<0.25	<7.0	580	65	<2.5	12.9	1233	8.1	12.9	1247	7.9
2/22/2001	11:32	31,490	10,775,500	27.0	38,880	850,230	<1.4	12	<1.0	<0.50	<17.4	710	85	<6.2	3.4	969	8.4	4.2	1468	7.2
3/7/2001	7:15	18,463	11,288,860	27.8	40,039	513,360	Not Analyzed →				Not Analyzed →				Not Measured			Not Measured		
3/29/2001	10:30	31,875	12,129,640	26.4	37,983	1,354,140	<0.70	13	0.49	<0.25	0.39	700	83.58	1.8	11.5	1106	7.5	12.7	1113	6.7
4/24/2001	13:05	37,595	13,089,270	25.5	36,757	959,630	NA	15	0.65	<0.25	NA	570	65	<2.5	15.9	1122	7.5	15.1	1740	7.0
5/25/2001	13:00	44,635	14,189,820	24.7	35,506	1,100,550	<0.70	14	0.75	<0.25	<14.0	750	93	<5.0	15.9	1207	8.3	13.9	1249	7.4
6/11/2001	15:20	24,620	14,776,610	23.8	34,321	586,790	<0.70	16	0.65	<0.25	<7.0	630	66	<2.5	21.8	1174	8.1	19.8	1208	6.9
7/10/2001	15:20	41,760	15,623,990	20.3	29,220	847,380	NA	16	0.75	<0.25	NA	590	64	<2.5	NM	NM	NM	NM	NM	NM
8/7/2001	13:25	40,205	16,367,370	18.5	26,625	743,380	<2.18	17	0.85	<0.46	<21.8	770	91	<4.6	NM	1015	7.9	NM	936	7.1
9/11/2001	12:20	50,335	17,338,600	19.3	27,785	971,230	<0.7	21	0.45	<0.25	<7.0	870	77	<2.5	13.2	940	8.1	12.9	924	6.9
10/2/2001	14:41	30,381	18,085,720	24.6	35,412	747,120	<0.7	20	0.80	<0.25	<7.0	730	65	<2.5	17.6	1181	NM	16.3	1240	NM
11/6/2001	12:40	50,279	19,215,590	22.5	32,360	1,129,870	<0.7	17	0.66	<0.25	<7.0	740	72	<2.5	13.1	1130	7.94	12.1	545	7.02
12/4/2001	13:10	40,350	20,128,230	22.6	32,570	912,640	<0.7	16	0.61	<0.25	<7.0	730	65	<2.5	12.6	894	7.8	12.2	916	7.0
1/8/2002	12:30	50,360	21,388,270	25.0	36,030	1,260,040	<0.7	10	<0.50	<0.25	<7.0	590	44	<2.5	11.1	855	8.0	11.9	880	7.0
2/5/2002	13:10	40,360	22,193,840	20.0	28,742	805,570	<0.7	8.7	<0.50	<0.25	<7.0	720	53	<2.5	11.1	820	8.0	11.7	869	7.1
3/5/2002	13:55	40,365	23,111,090	22.7	32,722	917,250	<0.7	14	0.25	<0.25	<7.0	720	53	<2.5	11.2	889	7.8	11.4	549	7.0
4/16/2002	7:20	60,085	24,432,700	22.0	31,674	1,321,610	<0.7	2.1	<0.25	<0.25	<34	790	56	<12	14.2	586	NM	14.2	590	NM

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
5/1/2002	8:55	21,695	24,718,930	13.2	18,998	286,230	<2.18	11	0.42	<0.46	<21.8	780	65	<4.6	12.2	917	8.1	11.7	915	7.1
6/18/2002	14:33	69,458	25,163,210	6.4	9,211	444,280	<0.7	15	0.44	<0.25	<14	840	63	<5.0	13.6	907	8.1	13.2	813	7.1
7/1/2002	13:58	18,685	25,380,920	11.7	16,778	217,710	<0.7	15	0.50	<0.25	<7.0	710	54	2.9	NM	NM	NM	NM	NM	NM
8/6/2002	14:05	51,847	26,340,380	18.5	26,648	959,460	<0.7	14	<0.25	<0.25	1.7	680	44	<2.5	15.7	1078	7.4	14.5	982	6.5
9/10/2002	11:10	50,225	27,248,940	18.1	26,049	908,560	<0.7	12	<0.25	<0.25	<14	780	51	<5.0	13.7	605	8.1	12.9	991	7.1
10/1/2002	11:21	30,251	27,853,510	20.0	28,779	604,570	<0.7	15	<0.25	<0.25	<7.0	700	43	<2.5	13.4	907	8.2	13.8	927	7.1
11/5/2002	12:55	50,494	29,062,610	23.9	34,481	1,209,100	<0.7	1.8	<0.25	<0.25	<11.2	560	29	<4.0	11.4	853	7.2	11.5	742	6.6
12/9/2002	15:55	49,140	29,363,610	6.1	8,821	301,000	<0.7	4.0	<0.25	<0.25	<7.0	700	32	<2.5	11.3	680	NM	11.5	873	NM
1/7/2003	14:30	41,675	*Meter not working		0		<1.2	16	<0.50	<0.50	<7.0	630	30	<2.5	11.6	889	8.0	11.6	770	7.3
1/10/2003	12:10	45,855	29,718,380	7.7	11,141	354,770														
2/4/2003	13:30	36,080	30,604,840	24.6	35,380	886,460	<1.2	7.0	<0.75	<0.50	<12.0	430	23	<5.0	10.9	704	8.1	11.2	808	7.1
3/5/2003	15:08	41,858	31,668,180	25.4	36,581	1,063,340	<1.2	7.0	<0.75	<0.50	<12.0	430	23	<5.0	10.9	704	8.1	11.2	808	7.1
4/8/2003	13:03	48,835	32,944,070	26.1	37,622	1,275,890	<1.5	<0.25	<0.50	<0.50	<12.0	390	22	<4.0	NM	NM	8.0	NM	NM	6.8
5/6/2003	13:20	40,337	33,904,290	23.8	34,279	960,220	<1.5	15	<0.75	<0.50	<15.0	520	26	<5.0	NM	NM	7.2	NM	NM	6.9
6/3/2003	12:15	40,255	34,921,170	25.3	36,376	1,016,880	<1.5	16	<0.50	<0.50	<24.0	640	34	<8.0	NM	NM	7.7	NM	NM	6.8
7/1/2003	15:30	40,515	35,543,965	15.4	22,136	622,795														
7/10/2003	16:13	13,003	35,549,040	0.4	562	5,075														
7/15/2003	16:16	7,203	35,712,940	22.8	32,766	168,975														
8/5/2003	13:30	30,074	36,478,010	25.4	36,633	765,070	<1.5	20	<0.50	<0.25	<15.0	690	32	4.6	13.4	1152	8.3	12.7	1140	7.3
9/2/2003	14:20	40,370	37,507,200	25.5	36,711	1,029,190	<1.5	13	<0.50	<0.25	<15.0	480	24	2.8	13.3	1023	8.5	12.6	1120	7.4
9/25/2003	12:50	33,030	38,242,480	22.3	32,056	735,280														
10/8/2003	13:05	18,735	38,779,480	28.7	41,275	537,000														
10/28/2003	13:05	28,800	38,781,500	0*	#VALUE!	539,020	<1.4	19	<0.50	<0.20	<14.0	740	30	4.3	NM	NM	7.3	NM	NM	7.0
11/19/2003	12:15	31,630	38,782,240	0*	#VALUE!	740	<1.4	17	<0.50	<0.20	<14.0	800	28	6.6	12.3	659	7.5	12.4	898	6.6
12/3/2003	14:05	20,270	38,782,550	0*	#VALUE!	310	*Water meter malfunctioning.													
12/9/2003	9:03	8,338	38,998,420	25.9	37,281	216,180	<1.4	16	<0.50	<0.20	<14.0	600	28	4.7	11.3	691	6.9	11.5	542	6.5
1/5/2004	12:59	39,116	40,025,690	26.3	37,817	1,027,270	<1.4	12	<0.50	<0.20	<22.4	480	22	3.5	10.5	1030	8.2	11.3	756	7.3
2/3/2004	12:35	41,736	41,036,070	24.2	34,861	1,010,380	<1.4	7.3	<0.50	<0.20	<14.0	420	17	2.8	10.8	1129	8.3	11.3	1113	7.2
3/1/2004	13:50	38,955	42,007,170	24.9	35,897	971,100	<1.4	13	<0.50	<0.20	<14.0	430	16	3.1	11.6	667	8.3	11.6	995	7.1
4/6/2004	12:20	51,750	43,293,700	24.9	35,799	1,286,530	<1.4	20	<0.50	<0.20	<14.0	760	28	4.8	12.4	566	8.1	12.3	1173	7.1
5/4/2004	13:50	40,410	44,287,040	24.6	35,397	993,340	<1.4	19	<0.50	<0.20	<14.0	660	24	3.1	12.7	758	8.3	12.4	1237	7.2
6/1/2004	13:15	40,285	45,270,720	24.4	35,162	983,680	<1.4	21	<0.50	<0.20	<16.0	850	29	6.3	12.4	1150	8.1	11.9	1242	6.9
6/15/2004	13:05	20,150	45,797,474	26.1	37,644	526,754	* Shut system off at 13:05. Water backing up into air stripper due to obstruction in underground PVC discharge line. Replaced 10-foot section of discharge line on September 21, 2004. Obstruction in discharge line was build-up of calcium carbonate scale in low spot of discharge line. Re-start system at 11:20.*													
9/21/2004	11:20	141,015	45,797,474	0.0	0	0														
9/24/2004	12:25	4,385	45,912,590	26.3	37,803	641,870	<1.4	18	<0.50	<0.20	<14.0	540	26	3.8	12.9	1209	8.3	12.9	644	7.2
10/5/2004	13:59	15,934	46,324,740	25.9	37,247	412,150	<1.4	14	<0.50	<0.20	<14.0	490	22	3.3	12.1	572	8.3	12.9	1098	7.3
11/2/2004	14:10	40,331	47,368,090	25.9	37,252	1,043,350	<1.4	14	<0.50	<0.20	<14.0	490	23	4.3	11.6	1154	8.3	11.7	1142	7.1
12/7/2004	13:53	50,383	48,656,500	25.6	36,824	1,288,410	<1.4	14	<0.50	<0.20	<14.0	470	19	3.8	11.5	734	8.1	11.7	681	7.0

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Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
1/11/2005	12:40	50,327	49,935,030	25.4	36,582	1,278,530	<1.4	11	<0.50	<0.20	<14.0	480	16	2.3	11.1	538	NM	11.4	750	NM
2/1/2005	13:50	30,310	50,702,680	25.3	36,470	767,650	<1.4	12	<0.50	<0.20	<14.0	440	16	<2.0	11.2	541	8.2	11.1	1101	7.2
3/3/2005	13:37	43,187	51,677,870	22.6	32,516	975,190	<1.4	16	<0.50	<0.20	<14.0	650	22	<2.0	10.9	730	8.1	11.3	1226	7.1
4/5/2005	14:26	47,569	52,856,700	24.8	35,685	1,178,830	<1.4	14	<0.50	<0.20	<14.0	520	16	3.6	13.1	830	8.3	12.9	758	7.0
4/13/2005	12:00	11,374	53,140,800	25.0	35,968	284,100	*System shut down; high water level in air stripper sump. De-scale air stripper trays. Pump switch in control panel does not													
5/31/2005	12:00	69,120	53,140,800	0.0	0	0	operate in the "Auto" position. Ordered new switch for control panel and had switch installed by Pentair Water electrician.													
6/30/2005	12:00	43,200	53,140,800	0.0	0	0	Float switch in air stripper sump also had to be replaced.													
6/30/2005	16:00	240	53,140,800	0.0	0	0	*Re-start system after installing new pump switch in control panel.													
7/5/2005	12:56	7,016	53,323,510	26.0	37,500	182,710	<1.4	4.2	<0.50	<0.20	<14.0	610	17	<2.0	13.4	592	8.3	13.3	1228	7.1
7/8/2005	12:00	4,264			0	*System off when personnel arrived to collect monthly effluent sample on August 2. Replaced fuse in control panel and re-started system. Based on average flow rate of 25 gpm, system likely shut down on July 8.														
8/2/2005	13:40	40,364	53,423,670	2.5	3,573	100,160	<1.4	5.4	<0.50	<0.20	<14.0	850	30	<2.0	NM	812	8.4	NM	851	7.2
8/15/2005	1:00	17,960	53,796,070	20.7	29,858	472,560	*System shut down; alarm condition 2 exists (high water level in air stripper sump). Air stripper trays de-scaled on September 9 prior to collecting monthly samples. August 15 meter reading is an estimated value.													
9/9/2005	13:42	36,762	53,796,080	0.0	0	10														
9/9/2005	13:55	13	53,796,460	29.2	42,092	380	<1.4	5.9	<0.50	<0.20	<22.4	700	24	<3.2	15.0	1221	8.4	13.6	732	7.1
10/4/2005	13:58	36,003	54,724,630	25.8	37,124	928,170	<1.4	3.0	<0.50	<0.20	<14.0	440	16	2.3	13.7	1158	8.1	13.0	1148	7.0
11/1/2005	13:26	40,288	55,142,120	10.4	14,922	417,490	*System shut down sometime prior to November 1. Blower pressure gauge not working, float switch malfunction.													
2/14/2006	12:30	151,144	55,142,120	0.0	0	0	* Replaced float valve on 2/10/2006. Re-start system at 12:30 on 2/14/2006.													
2/14/2006	13:13	43	55,143,740	37.7	54,251	1,620	<1.4	6.1	<0.50	<0.20	<14.0	700	23	<2.0	12.1	584	8.2	11.9	1304	7.4
3/3/2006	13:09	24,476	55,805,470	27.0	38,932	661,730	<1.4	3.2	<0.50	<0.20	<14.0	510	17	<2.0	11.3	542	8.5	11.4	868	7.2
4/4/2006	12:26	46,037	56,998,320	25.9	37,311	1,192,850	<1.4	3.2	<0.50	<0.20	<14.0	500	16	5.8	12.0	689	8.4	11.9	805	7.2
4/17/2006					0		*System automatically shut down due to thunder storm. System not re-started because air stripper trays required cleaning.													
4/21/2006				0.0	0		*Cleaned air stripper trays and re-started system.													
5/9/2006	13:26	50,460	57,967,060	19.2	27,645	968,740	<1.4	23	<0.50	<0.20	<14.0	600	14	4.3	12.7	1178	8.3	12.5	602	7.1
5/18/2006					0		*Pump in extraction well not operating. Pump switch in control panel needs to be replaced.													
5/23/2006	12:00	7,920		0.0	0		*Install new pump switch in control panel and electricl outlet for mixer for AquaMag solution chemical tank. Start using AquaMag solution again to control scale build-up on air stripper trays.													
6/6/2006	12:30	40,264	58,742,790	24.0	34,537	775,730	<1.4	25	<0.50	<0.20	<14.0	610	16	3.4	12.9	1216	8.3	12.6	973	7.1
6/18/2006					0		*System shut down sometime after 6/6/2006. Check of control panel circuits on 8/11/2006 found faulity circuit breaker.													
8/14/2006	14:10	82,930			0		*Replaced Ck203 in control panel and re-start sysem.													
8/15/2006	12:30	100,800	59,231,400	27.3	39,373	488,610	<1.4	20	<0.50	<0.20	<14.0	660	24	2.3	13.9	610	8.4	13.5	855	7.1
9/9/2006					0		*System automatically shut down on 9/9/2006.													
9/14/2006	16:00	8,160		0.0	0		*Checked system on 9/14/2006; removed obstruction in blower filter and re-started system at 16:00.													
9/19/2006	13:21	50,451	60,038,930	19.1	27,496	807,530	<1.4	21	<0.50	<0.20	<14.0	750	27.38	6.3	12.4	1058	8.2	12.5	1130	7.1
10/3/2006	13:30	20,169	60,593,860	27.5	39,620	554,930	<1.4	20	<0.50	<0.20	<14.0	530	18	3.5	13.4	780	8.4	12.6	853	7.2
11/3/2006	10:47	44,477	61,806,240	27.3	39,252	1,212,380	<1.4	15	<0.50	<0.20	<14.0	530	17	<2.0	11.6	574	8.2	11.8	993	7.0
12/5/2006	12:53	46,206	63,040,750	26.7	38,473	1,234,510	<1.4	13	<0.50	<0.20	<14.0	510	18	2.2	11.3	734	8.2	11.1	748	6.8

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Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
1/8/2007	14:15	49,042	64,336,700	26.4	38,052	1,295,950	<1.4	16	<0.50	<0.20	<14.0	480	15	2.0	11.4	885	8.0	11.7	574	6.6
2/6/2007	13:10	41,695	65,427,630	26.2	37,677	1,090,930	<1.4	11	<0.50	<0.20	<14.0	430	15	<2.0	10.9	530	8.1	11.3	555	6.9
3/6/2007	13:00	40,310	Meter not working		0		<1.4	11	<0.50	<0.20	<11.2	390	12	<1.6	11.0	544	7.8	11.1	854	6.3
3/16/2007	13:15	54,725	66,439,464	18.5	26,625	1,433,795	*Meter fixed by shutting down pump for several seconds and then re-starting it.													
4/5/2007	15:15	28,920	67,185,493	25.8	37,147	746,029	<1.4	17	<0.50	<0.20	<14.0	590	20	2.7	12.1	500	7.3	12.3	600	6.3
5/4/2007	12:26	41,591	68,260,164	25.8	37,208	1,074,671	<1.4	15	<0.75	<0.20	<1.4	43	1.3	<0.20	12.4	530	8.0	11.9	550	7.1
6/8/2007	10:40	50,294	69,532,786	25.3	36,437	1,272,622	<1.4	12	<0.50	<0.20	<14.0	410	14	<2.0	15.0	680	8.0	12.9	1100	7.3
7/12/2007	16:30	49,310	70,758,251	24.9	35,787	1,225,465	<1.4	11	<0.50	<0.20	<14.0	320	11	<2.0	14.9	520	8.1	15.4	560	7.2
8/10/2007	7:53	41,243	71,795,590	25.2	36,219	1,037,339	<1.4	13	<0.50	<0.20	<1.4	78	3.2	0.54	13.8	1097	7.0	12.0	1096	7.2
9/10/2007	12:00	44,887	72,931,898	25.3	36,453	1,136,308	*System shut down due to power outage.													
9/14/2007	13:10	5,830	72,931,898	0.0	0	1,136,308	*System re-started by GeoTrans personnel at 13:10.													
9/14/2007	14:00	50	72,933,141	24.9	35,798	1,137,551	<1.4	14	<0.50	<0.20	<7.0	500	20	<1.0	12.6	610	7.9	12.9	600	7.2
10/12/2007	15:50	40,430	73,936,118	24.8	35,723	1,002,977	<1.4	9.6	<0.50	<0.20	<14.0	340	12	<2.0	12.8	1125	6.9	12.4	1121	6.8
11/9/2007	9:50	39,960	74,908,049	24.3	35,025	971,931	<1.4	9.6	<0.50	<0.20	<7.0	360	14	<1.0	11.3	1027	8.3	11.3	1047	7.6
12/14/2007	9:55	50,405	76,141,699	24.5	35,244	1,233,650	<1.4	9.1	<0.50	<0.20	11.2	400	13	<1.6	11.1	1556	7.2	9.9	1590	6.8
12/23/2007	11:21	13,046	76,458,712	24.3	34,991	317,013	*Automatic shut down of system due to Alarm Condition 3; low blower pressure.													
12/28/2007	11:32	7,211	76,458,712	0.0	0	317,013	*Re-start system after removing dead bird from blower motor air filter housing and installing new air filter.													
12/28/2007	11:43	11	76,458,966	23.1	33,251	317,267														
1/10/2008	9:30	38,855	76,911,139	19.8	28,516	769,440	<1.4	9.3	<0.50	<0.20	<14.0	460	15	<2.0	11.7	1060	7.7	12.9	550	7.3
1/18/2008	14:00	30,377	77,196,961	24.3	34,984	1,055,262														
1/29/2008	19:38	16,178	77,586,885	24.1	34,707	1,128,173	*Automatic shut down of system due to Alarm Condition 3; low blower pressure.													
1/31/2008	9:34	2,276	77,586,885	0.0	0	1,127,919	*Re-start system after clearing ice build up on air stripper exhaust pipe and cleaning blower air filter.													
1/31/2008	9:41	7	77,587,071	26.6	38,263	1,128,105														
1/31/2008	10:12	31	77,587,834	24.6	35,443	1,128,868														
2/15/2008	10:18	40,098	78,112,699	22.8	32,886	915,738	<1.4	7.9	<0.50	<1.6	<11.2	390	13	<1.6	11.2	1051	8.0	11.2	1053	7.3
2/22/2008	13:46	10,288	78,361,834	24.2	34,871	1,164,873														
3/7/2008	14:41	20,215	78,848,298	24.1	34,653	735,599	*Installed new air flow meter on air stripper blower motor.													
3/14/2008	13:50	40,532	79,089,140	24.1	34,690	976,441	<1.4	9.4	<0.50	<1.6	<14	430	14	<2.0	13.8	1253	7.0	12.7	1292	7.0
3/28/2008	14:25	20,195	79,567,684	23.7	34,122	1,205,850														
4/17/2008	16:00	28,895	80,245,393	23.5	33,774	1,156,253	*System automatically shut down due to high water level in air stripper sump alarm condition.													
4/22/2008	11:08	6,908	80,245,393	0.0	0	1,156,253	*System re-started by GeoTrans personnel at 11:08.													
4/22/2008	11:29	21	80,245,887	23.5	33,874	1,156,747														
5/6/2008	12:40	20,231	80,732,090	24.0	34,607	486,697														
5/19/2008	6:00	18,320	81,171,625	24.0	34,549	926,232	*Pump in extraction well stopped operating sometime on 5/19/2008.													
5/21/2008	14:30	3,390	81,171,625	0.0	0	926,232	*Could not get pump in extraction well to start. Schedule an electrician to check system components.													
5/23/2008	9:00	2,550	81,171,625	0.0	0	926,232	*Electrician found breakers in pump controll box were tripped. Pushed two red re-set buttons on box and pump in extraction													
5/23/2008	9:50	50	81,171,625	0.0	0		*was able to be re-started, but pump shut down after operating for 5 minutes. Pushed re-set buttons and re-started pumps.													
5/23/2008	10:43	53	81,172,530	17.1	24,589		*Pump was drawing approx. 35 amps. Pump motor is mostl likely starting to fail. Pump shut down after 15 minutes.													

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
5/23/2008	11:20	37	81,173,424	24.2	34,794		Re-started pump at 10:25. Pump was still operating after one hour of operation. Leave site at 11:35 with system operating													
5/24/2008	20:20	1,980	81,221,083	24.1	34,661		*Pump in extraction well not operating when system checked on 5/29/2008. Based on previous pumping rate, pump													
5/29/2008	20:20	7,200	81,221,083	0.0	0	488,993	stopped operating sometime on 5/24/2008. Could not re-start pump on 5/29/2008. New pump needs to be installed.													
6/11/2008	10:45	18,145	81,221,083	0.0	0	488,993	*Installed new 4-inch, 2-wire, Sta-Rite Signature 2000 Series 30 gpm pump, pump wiring and 1.25-inch diameter PVC													
6/11/2008	11:05	20	81,221,083	0.0	0	488,993	discharge pipe in extraction well. Re-start pumping from extraction well at 11:05. Collect influent and effluent samples for													
6/11/2008	11:28	23	81,221,754	29.2	42,010	489,664	WPDES permit.													
6/11/2008	12:00	32	81,222,678	28.9	41,580	490,588	<1.4	17	<0.50	<0.20	<17	550	21	<2.0	15.3	1216	8.1	13.7	1242	7.0
6/11/2008	13:15	75	81,224,676	26.6	38,362	3,593														
6/11/2008	13:32	17	81,225,126	26.5	38,118	4,043														
6/12/2008	19:55	1,823	81,272,510	26.0	37,429	51,427	*System automatically shut down due to high water level in air stripper sump alarm condition. Cause of alarm condition													
6/13/2008	10:12	857	81,272,510	0.0	0	51,427	most likely from high water level in storm sewer due to heavy thunderstorms. System re-started by GeoTrans personnel													
6/13/2008	10:56	44	81,273,682	26.6	38,356	52,599	at 10:12.													
7/1/2008	13:13	26,057	81,961,999	26.4	38,039	740,916	*Check system and re-fill AquaMag solution 35-gallon chemical tank.													
7/1/2008	13:45	32	81,962,844	26.4	38,025	741,761														
7/1/2008	13:48	3	81,962,924	26.7	38,400	741,841														
7/8/2008	2:00	9,372	82,204,667	25.8	37,144	983,584	*System automatically shut down due to high blower pressure in air stripper alarm condition.													
7/22/2008	15:35	20,975	82,204,667	0.0	0	983,584	*Re-start system and re-fill AquaMag solution 35-gallon chemical tank.													
8/5/2008	16:10	20,195	82,738,908	26.5	38,094	1,517,825	*Check system and re-fill AquaMag solution 35-gallon chemical tank.													
8/12/2008	14:06	9,956	82,994,300	25.7	36,939	789,633	*Check system and re-fill AquaMag solution 35-gallon chemical tank.													
8/25/2008	7:30	18,324	83,464,349	25.7	36,939	1,259,682	*System automatically shut down due to high blower pressure in air stripper alarm condition.													
8/25/2008	10:35	185	83,469,094	25.7	36,939	1,264,427	*Re-start system and re-fill AquaMag solution 35-gallon chemical tank.													
9/30/2008	17:59	52,284	84,580,466	21.3	30,609	1,111,372														
9/30/2008	18:02	3	84,580,555	29.7	42,720	1,111,461	<1.7	14	<0.50	<0.20	<1.7	400	17	<0.20	12.3	971.0	7.6	12.5	955.0	6.8
10/7/2008	13:54	9,832	84,861,202	28.5	41,104	280,647	*Check system. Chemical pump for AquaMag solution needed to be primed as it wasn't pumping solution.													
10/13/2008	13:00	8,586	85,105,948	28.5	41,048	525,393	*System shut down due to power outage.													
10/14/2008	15:36	1,596	85,105,948	0.0	0	525,393	*System re-started by GeoTrans personnel at 15:36.													
10/14/2008	15:53	17	85,106,438	28.8	41,506	525,883														
10/14/2008	16:03	10	85,106,727	28.9	41,544	526,172														
10/21/2008	15:02	10,019	85,396,242	28.9	41,611	815,687														
11/11/2008	14:16	30,194	86,253,858	28.4	40,901	857,616	*Check system and re-fill AquaMag solution 35-gallon chemical tank.													
11/18/2008	14:21	10,085	86,536,601	28.0	40,372	1,140,359	*Check system and re-fill AquaMag solution 35-gallon chemical tank.													
12/5/2008	10:12	24,231	87,216,496	28.1	40,405	962,638	<1.7	10	<0.50	<0.20	<6.8	330	15	<2.0	10.9	1150	7.2	10.9	1180	6.3
12/30/2008	14:43	36,271	87,283,200	1.8	2,648	66,704	*Flow meter was not operating upon arrival. Turned off pump at 14:43 to back-flush water through meter.													
12/30/2008	14:44	1	87,283,200	0.0	0	1,019,215	*Meter began operating after system was re-started at 14:44.													
12/30/2008	14:45	1	87,283,228	28.0	40,320	1,019,243	*Based on 28.1 gpm flow rate, 1,019,215 was pumped between 12/5/2008 and 12/30/2008.													
12/30/2008	14:55	10	87,283,515	28.7	41,328	1,019,530	*Re-filled AquaMag solution tank.													
1/6/2009	16:15	10,160	87,355,248	7.1	10,167	274,293	*Flow meter was not operating upon arrival. Turned off pump at 16:14 to back-flush water through meter in order to get meter to work.													

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
1/6/2009	16:20	5	87,355,383	27.0	38,880	274,428	*Meter began operating after pump was re-started at 16:15. Based on 27 gpm flow rate, 274,293 gallons was pumped between 12/302008 and 1/6/2009.													
1/13/2009	9:39	9,679	87,423,489	7.0	10,133	547,375	*Flow meter was not operating upon arrival. Turned off pump at 9:38 to back-flush water through meter in order to get meter to work. Re-started pump at 9:39.													
1/13/2009	10:05	26	87,424,222	28.2	40,597	548,108	*Meter began operating after pump was re-started. Based on 28.2 gpm flow rate, 272,947 gallons was pumped between 1/6/2009 and 1/13/2009.													
1/27/2009	15:42	20,497	87,489,126	3.2	4,560	1,128,173	*Flow meter was not operating upon arrival. Turned off pump at 15:40 to back-flush water through meter in order to get meter to work. Re-started pump at 15:42.													
1/27/2009	15:54	12	87,489,465	28.3	40,680	1,128,512	*Meter began operating after pump was re-started. Based on 28.3 gpm flow rate, 580,065 gallons was pumped between 1/13/2009 and 1/27/2009.													
2/4/2009	14:50	11,456	87,813,655	28.3	40,750	324,190	*Check system and re-filled AquaMag solution tank.													
2/17/2009	12:28	18,578	88,334,751	28.0	40,391	845,286	*Check system and re-filled AquaMag solution tank.													
3/5/2009	13:30	23,102	88,978,513	27.9	40,127	1,164,858	<1.7	12	<0.50	<0.20	<6.8	320	11	<2.0	12.6	1068	8.0	12.0	1151	7.0
3/29/2009	13:55	34,585	89,946,880	28.0	40,319	1,612,129	*System was off when it was checked on 4/9/2009. Based on flow rate of 28 gpm, system shut down at 13:55 on 3/29/2009.*													
4/9/2009	13:14	15,799	89,946,880	0.0	0	2,457,415	*System must have experienced a power outage on 3/29/2009 as system was able to be re-started on 4/9/2009.													
4/9/2009	13:43	29	89,947,689	27.9	40,171	2,458,224	*Re-filled AquaMag solution tank.													
4/29/2009	15:39	28,916	90,758,034	28.0	40,355	811,154	*Check system and re-filled AquaMag solution tank.													
5/15/2009	14:39	22,980	91,402,053	28.0	40,356	644,019	*Check system and re-filled AquaMag solution tank.													
5/20/2009	14:25	7,186	91,602,975	28.0	40,263	844,941	*Water meter was not operating when arrived on site on 6/11/2009. Based on flow rate of 28 gpm, water meter stopped operating on 05/20/09 and 1,088,864 gallons was pumped between 5/15/2009 and 6/11/2009.													
6/11/2009	14:47	31,702	91,602,975	0.0	0	1,289,786	Turned off pump for several seconds. Meter began operating after pump was re-started. Collected quarterly influent and effluent samples.													
6/11/2009	14:59	12	91,603,311	28.0	40,320	1,290,122	<1.7	15	<0.50	<0.20	<8.5	330	11	<2.5	13.4	1141	8.25	11.6	1165	7.34
6/11/2009	15:09	10	91,603,593	28.2	40,608	1,290,404														
6/30/2009	14:40	27,331	92,363,158	27.8	40,020	1,849,047	*Checked system and re-filled AquaMag solution tank.													
7/14/2009	13:27	20,087	92,919,995	27.7	39,919	1,316,402	*Checked system and re-filled AquaMag solution tank.													
7/21/2009	12:57	10,050	93,195,275	27.4	39,443	832,117	*Checked system and re-filled AquaMag solution tank.													
9/15/2009	15:00	80,763	95,425,708	27.6	39,769	1,252,857														
9/15/2009	15:10	10	95,425,984	27.6	39,744	1,252,995	<1.7	13	<0.50	<0.20	<8.5	260	11	<1.0	14.0	550	8.06	16.1	580	7.15
10/16/2009	15:16	44,646	96,587,301	26.0	37,457	1,161,317	*Checked system and re-filled AquaMag solution tank.													
10/16/2009	15:20	4	96,587,405	26.0	37,440	1,161,421														
11/18/2009	14:33	47,473	97,883,783	27.3	39,323	1,296,378	*Checked system and re-filled AquaMag solution tank.													
11/18/2009	14:37	4	97,883,893	27.5	39,600	1,296,488														
12/22/2009	12:34	48,837	99,198,582	26.9	38,765	1,314,689	*Checked system and re-filled AquaMag solution tank.													
12/22/2009	12:50	16	99,199,016	27.1	39,060	1,315,123	<1.7	6.5	<0.50	<0.20	<8.5	280	12	2.2	10.7	1024	7.70	10.6	1032	6.46
1/19/2010	15:01	40,451	100,284,128	26.8	38,628	1,085,112	*Checked system and re-filled AquaMag solution tank.													
2/16/2010	15:43	40,362	101,358,823	26.6	38,342	1,074,695	*Checked system and re-filled AquaMag solution tank.													
3/2/2010	15:45	20,162	101,891,056	26.4	38,013	532,233	<1.7	9.3	<0.50	<0.20	<8.5	240	8.4	1.5	12.8	1140	8.30	11.1	1160	7.58

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Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
5/13/2010	10:45	103,380	104,612,600	26.3	37,909	1,137,267	<1.7	10	<0.50	<0.20	<6.8	280	8.4	<0.80	13.0	1110	8.53	13.3	1140	7.69
7/13/2010	15:21	88,116	106,744,159	24.2	34,834	1,065,780	*Checked system and re-filled AquaMag solution tank.													
7/13/2010	15:29	8	106,744,369	26.3	37,800	1,065,885														
8/3/2010	0:05	29,316	107,513,978	26.3	37,803	1,171,897	*Checked system; water meter was not recording flow. Based on pumping rate from 7/13/2010, meter stopped recording													
8/3/2010	15:40	935	107,513,978		0	0	*flow on 8/3/2010 about 0:05. Turn off pump at 15:40. Re-fill AquaMag solution tank and replace air stripper blower motor													
8/3/2010	16:05	25	107,513,978	0.0	0	0	*air filter. Re-start system at 16:05 and the water meter began recording flow again.													
8/3/2010	16:30	25	107,514,625	25.9	37,267	1,155,283	*Based on estimated time when meter stopped operating, 24,544 gallons was pumped between 0:05 and 15:40.													
8/24/2010	11:05	29,915	108,300,567	26.3	37,832	1,172,805	*Checked system and re-filled AquaMag solution tank.													
9/14/2010	13:34	30,389	109,102,066	26.4	37,979	1,139,385	<1.7	8.1	<0.50	<0.20	<6.8	280	10	<0.80	14.2	1028	7.05	13.9	1041	6.32
11/2/2010	13:46	70,572	110,925,740	25.8	37,212	1,116,345	*Took delivery of AquaMag solution. Re-filled AquaMag solution tank and measured system pumping rate.													
11/2/2010	13:52	6	110,925,896	25.9	37,320	1,119,600	*Checked system and re-filled AquaMag solution tank.													
12/14/2010	11:35	60,343	112,490,077	25.9	37,327	1,157,136	<1.7	5.8	<0.50	<0.20	<8.5	270	9.5	<1.0	8.1	1080	8.10	8.5	1160	8.05
12/21/2010	15:18	10,303	112,754,580	25.7	36,968	1,146,017	*Checked system and re-filled AquaMag solution tank.													
1/12/2011	14:41	31,643	113,568,392	25.7	37,035	1,148,076	*Checked system and re-filled AquaMag solution tank.													
3/8/2011	14:40	79,199	115,556,814	25.1	36,154	1,120,761	<1.7	6.3	<0.50	<0.20	<6.8	260	<2.0	<0.80	11.3	1110	7.79	11.8	1320	7.14
4/5/2011	15:51	40,391	116,563,364	24.9	35,885	1,076,551	*Checked system and re-filled AquaMag solution tank.													
5/12/2011	14:48	53,217	117,881,395	24.8	35,665	1,105,604	*Checked system and re-filled AquaMag solution tank.													
6/7/2011	15:47	37,499	118,824,863	25.2	36,230	1,086,904	<1.7	8.9	<0.50	<0.20	<6.8	270	8.7	<0.80	14.7	360	8.53	14.6	200	7.68
6/23/2011	14:50	22,983	119,407,548	25.4	36,508	1,131,752	*Checked system and re-filled AquaMag solution tank.													
7/5/2011	16:07	17,357	119,833,957	24.6	35,376	1,096,670	*Checked system and re-filled AquaMag solution tank.													
7/11/2011	11:30	8,363	120,043,359	25.0	36,056	1,117,745	*System shut down due to power outage caused by a thunderstorm.													
7/11/2011	14:13	163	120,043,359	0.0	0	0	*Re-start system.													
7/11/2011	14:35	22	120,043,873	23.4	33,644	1,042,953	*Installed new air filter on air stripper blower and re-filled AquaMag solution tank.													
7/11/2011	14:42	7	120,044,045	24.6	35,383	1,096,869														
7/14/2011	15:22	4,360	120,151,833	24.7	35,600	1,103,591	*Checked system and re-filled AquaMag solution tank.													
9/20/2011	16:23	97,981	122,553,614	24.5	35,298	1,058,950	<1.7	5.2	<0.50	<0.20	<6.8	230	8.0	<0.80	14.4	1120	7.79	14.1	1130	7.59
10/18/2011	13:16	40,133	123,526,429	24.2	34,905	1,082,064	*Checked system and re-filled AquaMag solution tank.													
10/25/2011	15:38	10,222	123,773,441	24.2	34,797	1,078,714	*Checked system and re-filled AquaMag solution tank.													
12/13/2011	15:48	70,570	125,452,104	23.8	34,254	1,061,861	<1.7	5.2	<0.50	<0.20	<3.4	260	7.6	0.56	11.0	952	8.24	11.0	1046	7.82
12/27/2011	13:30	20,022	125,932,048	24.0	34,518	1,070,058	*Checked system and re-filled AquaMag solution tank.													
3/16/2012	12:30	115,140	128,641,677	23.5	33,888	1,050,528	<1.7	6.9	<0.50	<0.20	<3.4	240	6.1	0.46	15.4	1072	8.20	13.1	1092	7.50
4/17/2012	8:35	45,845	129,704,148	23.2	33,372	1,001,172	*System shut down due to blown fuse caused by plugging transfer pump into outlet inside building.													
4/17/2012	8:51	16	129,704,148	0.0	0	0	*Installed 2 new 5-amp fuses inside control panel and re-start system.													
4/17/2012	9:16	25	129,704,764	24.6	35,482	1,064,448	*Accepted delivery of 55-gallons of AquaMag. Re-filled AquaMag solution tank.													
5/1/2012	14:45	20,489	130,179,641	23.2	33,375	1,001,254	*Checked system and re-filled AquaMag solution tank.													
5/8/2012	4:00	9,435	130,396,553	23.0	33,106	993,174	*Remediation system was shut down upon arrival on 5/10/2012. Based on previous pumping rate, system shut down													
5/10/2012	18:10	3,730	130,396,553	0.0	0	0	*about 4:00 on Tuesday, 5/8/2012. Re-started system at 18:10 on 5/10/2012.													
5/10/2012	18:30	20	130,397,005	22.6	32,544	976,320														

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Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
6/12/2012	10:56	47,066	131,456,906	22.5	32,428	972,841	<0.382	4.6	<0.20	<0.10	<0.382	320	8.9	<0.10	13.8	980	7.70	13.5	981	7.20
8/20/2012	23:50	100,134	133,696,649	22.4	32,209	998,483	*Remediation system was shut down upon arrival on 8/21/2012. Based on previous pumping rate, system shut down													
8/21/2012	14:08	858	133,696,649	0.0	0	0	*about 23:50 on Monday, 8/20/2012. Re-started system at 14:08 on 8/21/2012.													
8/21/2012	14:38	30	133,697,300	21.7	31,272	969,432														
8/26/2012	6:40	6,722	133,847,215	22.3	32,115	995,564	*Remediation system was shut down upon arrival on 8/27/2012. Based on previous pumping rate, system shut down													
8/27/2012	16:07	2,007	133,847,215	0.0	0	0	*about 6:40 on Sunday, 8/26/2012. Re-started system at 16:07 on 8/27/2012.													
8/27/2012	16:23	16	133,847,556	21.3	30,690	951,390														
9/11/2012	16:55	21,632	134,324,160	22.0	31,727	951,799	<0.382	4.5	<0.20	<0.10	<0.382	210	7.5	<0.10	16.6	1052	8.35	16.4	1072	7.41
9/18/2012	13:46	9,891	134,539,800	21.8	31,394	941,831	*Checked system and re-filled AquaMag solution tank.													
9/18/2012	14:10	24	134,540,321	21.7	31,260	937,800														
9/25/2012	14:25	10,095	134,761,413	21.9	31,538	946,129	*Remediation system was shut down upon arrival on 10/9/2012. Based on previous pumping rate, system shut down													
9/30/2012	8:00	6,815	134,909,175	21.7	31,222	936,655	*Remediation system was shut down upon arrival on 10/9/2012. Based on previous pumping rate, system shut down													
10/9/2012	10:50	13,130	134,909,175	0.0	0	0	*about 8:00 on Sunday, 9/30/2012. Re-started system at 10:50 on 9/30/2012.													
10/23/2012	14:00	20,350	135,351,126	21.7	31,273	969,470	*Checked system and re-filled AquaMag solution tank.													
10/26/2012	12:35	4,235	135,443,460	21.8	31,396	973,268	*Checked system and re-filled AquaMag solution tank.													
11/20/2012	14:36	36,121	136,223,683	21.6	31,104	933,131	*Checked system, took delivery of AquaMag and re-filled AquaMag solution tank.													
11/29/2012	11:35	12,779	136,498,176	21.5	30,931	927,936	*Turn pump off to discharge purge water through air stripper.													
11/29/2012	13:25	110	136,498,176	0.0	0	0	*Re-start pump.													
11/29/2012	13:50	25	136,498,719	21.7	31,277	938,304														
12/4/2012	15:39	7,309	136,658,144	21.8	31,409	973,694	<0.382	3.3	<0.20	<0.10	<0.382	240	6.0	0.47	12.6	1130	8.18	12.6	1140	7.15
1/15/2013	13:00	60,321	137,967,748	21.7	31,263	969,160	*Checked system and re-filled AquaMag solution tank.													
2/19/2013	15:15	50,535	139,043,220	21.3	30,646	858,079	*Checked system and re-filled AquaMag solution tank.													
3/12/2013	14:00	30,165	139,677,668	21.0	30,287	938,895	<0.382	2.8	<0.20	<0.10	<0.382	290	6.3	0.51	9.4	1056	7.80	9.5	1061	7.57
5/15/2013	12:52	92,092	141,585,353	20.7	29,830	924,717	*Checked system and re-filled AquaMag solution tank.													
5/21/2013	16:08	8,836	141,765,977	20.4	29,436	912,523	*Checked system and re-filled AquaMag solution tank.													
5/28/2013	15:24	10,036	141,971,737	20.5	29,523	915,218	*Checked system and re-filled AquaMag solution tank.													
6/4/2013	13:30	9,966	142,202,858	23.2	33,395	1,001,849	*Turn off system to connect hose to pump purge water from monitor wells through air stripper.													
6/4/2013	14:45	75	142,202,858	0.0	0	0	*Re-start system.													
6/4/2013	14:55	10	142,203,064	20.6	29,664	889,920														
6/10/2013	13:20	8,545	142,350,452	17.2	24,838	745,133	*Turn off system to clean air stripper blower air filter and replace influent line particulate filters.													
6/10/2013	14:30	70	142,350,452	0.0	0	0	*Re-start system.													
6/11/2013	16:10	1,540	142,382,745	21.0	30,196	905,882	<0.382	3.2	<0.20	<0.10	<0.382	290	5.9	<0.10	15.2	1009	8.01	14.0	1040	7.80
7/23/2013	14:01	60,351	143,615,520	20.4	29,415	882,436	*Checked system and re-filled AquaMag solution tank. Install new transfer pump in white 55-gallon Aqua Mag drum.													
8/6/2013	13:19	20,118	144,021,335	20.2	29,047	900,466	*Checked system and re-filled AquaMag solution tank.													
8/20/2013	15:00	20,261	144,432,047	20.3	29,190	904,900	*Checked system and re-filled AquaMag solution tank.													
9/3/2013	14:15	20,115	144,838,373	20.2	29,088	872,646	*Checked system and re-filled AquaMag solution tank.													
9/17/2013	15:10	20,215	145,247,795	20.3	29,165	874,946	<0.382	1.9	<0.20	<0.10	<0.382	190	6.4	<0.10	15.1	980	8.31	12.9	1002	7.71
10/1/2013	13:35	20,065	145,654,563	20.3	29,192	904,965	*Checked system and re-filled AquaMag solution tank. Adjust chemical pump settings.													

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
10/11/2013	16:00	14,545	145,949,637	20.3	29,213	905,610	*System was off when it was checked on 10/15/2013. Based on flow rate of 20.3 gpm, system shut down at 14:00 on 10/11/2013. System would not re-start when red re-set button on outside of panel pushed.*													
10/16/2013	15:19	7,159	145,949,637	0.0	0	0	*Open control panel and check fuses and pump motor and air stripper blower motor circuit protectors. Blower motor circuit protector was tripped. Push green re-set button on blower motor circuit protector. Re-start system at 15:19.													
10/16/2013	15:58	39	145,950,444	20.7	29,797	923,705	*Re-fill AquaMag solution tank and adjust chemical pump settings.													
10/29/2013	15:20	18,682	146,337,440	20.7	29,829	924,714	*Re-fill AquaMag solution tank and adjust chemical pump settings.													
11/12/2013	10:00	19,840	146,743,824	20.5	29,496	884,868	<0.382	1.7	<0.20	<0.10	<0.382	190	6.5	<0.10	11.0	985	8.05	10.5	993	7.45
12/10/2013	15:47	40,667	147,566,271	20.2	29,122	902,797	*Checked system and re-filled AquaMag solution tank.													
12/24/2013	14:41	20,094	147,967,103	19.9	28,725	890,472	*Checked system and re-filled AquaMag solution tank. Adjust chemical pump settings.													
1/14/2014	15:35	30,294	148,570,781	19.9	28,695	889,555	*Checked system and re-filled AquaMag solution tank.													
2/19/2014	15:47	51,852	149,590,146	19.7	28,309	792,656	*Checked system and re-filled AquaMag solution tank.													
3/4/2014	15:10	18,683	149,952,082	19.4	27,896	864,787	<0.382	1.4	<0.20	<0.10	5.140	190	5.4	<0.10	8.4	1151	7.77	10.3	1039	7.83
4/29/2014	13:40	80,550	151,479,924	19.0	27,313	819,401	*Checked system and re-filled AquaMag solution tank.													
5/13/2014	15:40	20,280	151,851,899	18.3	26,412	818,785	<0.382	1.8	<0.20	<0.10	<0.382	210	6.1	0.14						
5/20/2014	0:00	9,140	152,019,554	18.3	26,414	818,831	*System off upon arrival on 5/27/2014. Based on 18.3 gpm pumping rate, system shut down about 12:00 am on 5/20/2014.													
5/27/2014	11:04	10,744	152,019,554	0.0	0	0	*Re-start system at 11:04.													
5/27/2014	11:16	12	152,019,776	18.5	26,640	825,840	*Re-fill AquaMag solution tank.													
6/3/2014	14:53	10,297	152,218,844	19.3	27,839	863,008	*Checked system and re-filled AquaMag solution tank.													
6/17/2014	14:34	20,141	152,597,258	18.8	27,055	838,707	*Checked system and re-filled AquaMag solution tank.													
6/24/2014	13:59	10,045	152,783,554	18.5	26,706	827,900	*Checked system, re-filled AquaMag solution tank and replaced batteries in autodialer.													
6/24/2014	14:22	23	152,783,977	18.4	26,483	820,988														
7/1/2014	13:33	10,031	152,971,570	18.7	26,930	834,827	*Checked system and re-filled AquaMag solution tank.													
7/6/2014	6:00	6,747	153,098,386	18.8	27,066	839,049	*System off upon arrival on 7/8/2014. Based on 18.7 gpm pumping rate, system shut down about 6:00 am on 7/6/2014.													
7/22/2014	15:45	23,625	153,471,004	15.8	22,712	704,071	*Checked system and re-filled AquaMag solution tank.													
8/19/2014	14:15	40,230	154,191,897	17.9	25,804	799,917	*Checked system and re-filled AquaMag solution tank.													
9/2/2014	15:40	20,245	154,554,516	17.9	25,793	773,778	<0.382	1.3	<0.20	<0.10	<0.382	190	6.6	<0.10	13.7	1011	7.91	11.4	1080	7.10
9/23/2014	14:28	30,168	155,095,645	17.9	25,830	774,886	*Checked system and re-filled AquaMag solution tank.													
10/10/2014	18:00	24,692	155,538,075	17.9	25,802	774,055	*System off when checked on 10/14/2014. Based on 17.9 gpm pumping rate , system shut down about 18:00 on													
10/14/2014	14:35	5,555	155,538,075	0.0	0	0	*10/10/2014. Air stripper blower motor could not be re-started. Motor checked by electrician on 10/21/2014 and													
10/22/2014	10:00	11,245	155,538,075	0.0	0	0	*mechanical contractor on 10/24/2014. The mehcanical contactor determined the blower motor needs to be replaced.													
10/24/2014	9:50	2,870	155,538,075	0.0	0	0	*A new blower motor could not be found that could be connected to the existing fan of the air stripper so a new blower													
1/1/2015	0:00	98,770	155,538,075	0.0	0	0	*motor and fan was ordered by the mechanical contractor.													
1/20/2015	13:00	28,140	155,538,075	0.0	0	0	*New blower motor and fan installed on air stripper.													
1/27/2015	12:30	10,050	155,583,147	4.5	6,458	200,200														
1/27/2015	12:40	10	155,583,343	19.6	28,224	874,944	<0.382	1.9	<0.20	<0.10	<0.382	200	7.9	<0.10	10.5	1032	8.61	11.2	1085	7.85
2/24/2015	13:40	40,380	156,373,455	19.6	28,176	788,938	*Checked system and re-filled AquaMag solution tank.													
3/25/2015	16:10	41,910	157,182,229	19.3	27,789	861,457	*Checked system and re-filled AquaMag solution tank.													
4/21/2015	15:45	38,855	157,921,041	19.0	27,381	821,430	*Checked system and re-filled AquaMag solution tank.													
4/22/2015	9:25	1,060	157,941,218	19.0	27,410	822,308	*System off upon arrival for AquaMag delivery on 4/28/2014. Based on 19 gpm pumping rate , system shut down about													

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
4/28/2015	8:10	8,565	157,941,218	0.0	0	0	*9:25 on 4/22/2015. Re-start sysetm at 8:10 on 4/28/2014.													
4/28/2015	8:30	20	157,941,590	18.6	26,784	803,520														
5/13/2015	15:50	22,040	158,380,884	19.9	28,702	889,750	<0.382	2.2	<0.20	<0.10	<0.382	180	6.6	<0.10	12.0	1003	8.05	11.1	996	7.39
6/16/2015	14:15	48,865	159,346,034	19.8	28,442	853,259	*Checked system and re-filled AquaMag solution tank.													
7/7/2015	17:16	30,421	159,939,007	19.5	28,069	870,133	*Checked system and re-filled AquaMag solution tank.													
7/21/2015	16:48	20,132	160,324,360	19.1	27,563	854,468	*Checked system and re-filled AquaMag solution tank.													
8/18/2015	16:07	40,279	161,082,590	18.8	27,107	840,323	*Checked system and re-filled AquaMag solution tank.													
9/1/2015	15:20	20,113	161,459,015	18.7	26,950	808,510	*Checked system and re-filled AquaMag solution tank.													
9/8/2015	13:16	9,956	161,644,406	18.6	26,814	804,429	*Checked system and re-filled AquaMag solution tank.													
9/15/2015	14:02	10,126	161,833,360	18.7	26,871	806,124	*Checked system, re-filled AquaMag solution tank and collected quarterly Influent and Effluent samples.													
9/15/2015	14:26	24	161,833,805	18.5	26,700	801,000	<0.382	1.7	<0.20	<0.10	<0.382	160	6.2	<0.10	15.3	1016	8.43	13.3	1056	7.29
9/22/2015	13:57	10,051	162,021,281	18.7	26,860	805,787	*Checked system and re-filled AquaMag solution tank.													
10/6/2015	13:34	20,137	162,400,590	18.8	27,124	840,858	*Checked system and re-filled AquaMag solution tank.													
10/27/2015	14:52	30,318	162,951,087	18.2	26,147	810,548	*Checked system and re-filled AquaMag solution tank.													
11/11/2015	12:35	21,463	163,350,606	18.6	26,805	804,138	<0.70	1.2	<0.38	<0.20	<0.70	150	5.0	<0.20	11.9	1007	7.73	11.0	994	7.03
12/8/2015	13:46	38,951	164,069,469	18.5	26,576	823,857	*Checked system and re-filled AquaMag solution tank.													
12/22/2015	14:16	20,190	164,438,403	18.3	26,313	815,711	*Checked system and re-filled AquaMag solution tank.													
1/6/2016	11:00	21,404	164,538,563	4.7	6,738	208,893	*Checked system and re-filled AquaMag solution tank. Flow meter not registering flow upon arrival at 10:30.													
1/6/2016	11:05	5	164,538,653	18.0	25,920	803,520	*Based on 18.gpm flow rate, meter stopped registering flow about 7:00 on 1/5/2016. 16,338 gallons not registered by meter.													
1/6/2016	11:15	10	164,538,832	17.9	25,776	799,056	*Turn pump off for several seconds to back-flush water through meter. Meter starts to register flow about 11:00.													
1/23/2016	21:47	25,112	164,988,575	17.9	25,790	799,479	*System shut down due to temporary power outage.													
1/25/2016	13:05	2,358	164,988,575	0.0	0	0	*System re-started by Tetra Tech personnel at 13:05. Also replaced air stripper blower motor air filter.													
1/25/2016	13:20	15	164,988,845	18.0	25,920	803,520														
2/3/2016	14:25	13,025	165,229,445	18.5	26,600	771,398	*Checked system and re-filled AquaMag solution tank.													
3/8/2016	14:50	48,985	166,110,103	18.0	25,888	802,543	<0.70	1.5	<0.38	<0.20	<0.70	160	5.9	<0.20	12.9	1058	8.23	12.1	1092	7.46
3/22/2016	13:55	20,105	166,471,513	18.0	25,886	802,454	*Checked system and re-filled AquaMag solution tank.													
4/5/2016	14:20	20,185	166,835,015	18.0	25,932	777,968	*Checked system and re-filled AquaMag solution tank.													
4/19/2016	13:09	20,089	167,022,312	9.3	13,426	402,769	*Checked system and re-filled AquaMag solution tank. Flow meter not registering flow upon arrival at 13:00. Based on													
4/19/2016	13:25	16	167,022,580	16.8	24,120	723,600	*18 gpm flow rate, meter stopped operating on 4/12/2016 at about 20:00. 174,042 gallon not registered by meter.													
4/19/2016	13:35	10	167,022,755	17.5	25,200	756,000	*Quickly turn EW-1 pump off and on to get flow meter to start registering flow. Flow meter starts working at 13:09.													
5/3/2016	9:50	19,935	167,041,546	0.9	1,357	40,721	*Checked system and re-filled AquaMag solution tank. Flow meter not registering flow. Basedon 17.5 gpm flow rate,													
5/3/2016	10:09	19	167,041,754	10.9	15,764	472,926	*meter stopped operating at about 7:35 on 4/20/2016. 330,072 gallons no registered by meter. Re-start meter by turning													
5/3/2016	10:15	6	167,041,863	18.2	26,160	784,800	*EW-1 pump off at 9:55 then on at 9:56. Meter starts registering flow again at 9:56.													
5/17/2016	14:35	20,420	167,400,087	17.5	25,262	757,849	<0.70	1.1	<0.38	<0.20	<0.70	170	5.4	<0.20	11.8	1104	8.38	11.6	1168	7.35
5/17/2016	16:05	90	167,400,087	0.0	0	0	*Shut system down at 14:35 to pump purge water from May sampling event through air stripper. Re-start system at 16:05.													
5/18/2016	11:25	1,160	167,420,607	17.7	25,473	764,193	*Shut system down at 11:25 to pump purge water from May sampling event through air stripper. Re-start system at 11:35.													
5/18/2016	11:35	10	167,420,607	0.0	0	0	*Fill AquaMag solution tank.													
5/18/2016	12:35	60	167,421,675	17.8	25,632	768,960														

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Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
5/31/2016	14:55	18,860	167,757,965	17.8	25,676	770,293	*Checked system and re-filled AquaMag solution tank.													
6/2/2016	8:00	2,465	167,775,754	7.2	10,392	311,759	*Shut system down at 8:00 to install new pump in extraction well.													
6/2/2016	9:45	105	167,775,754	0.0	0	0	*Re-start system at 9:45.													
6/2/2016	10:15	30	167,776,462	23.6	33,984	1,019,520														
6/9/2016	11:04	10,129	168,015,783	23.6	34,023	1,020,700	*System shut down due to electrical power interruption. Main breaker switch on outside of remediation system building													
6/10/2016	14:43	1,659	168,015,783	0.0	0	0	*was turned to OFF position by unkown person. Main breaker switch turned back to ON and system re-started by													
6/10/2016	14:48	5	168,015,903	24.0	34,560	1,036,800	*Tetra Tech personnel at 14:43 on 6/10/2016.													
6/14/2016	14:20	5,732	168,150,078	23.4	33,708	1,011,228	*System shut down due to high air stripper sump water level and high blower pressure alarm condition.													
6/14/2016	15:09	49	168,150,078	0.0	0	0	*Alarm condition cleared and system re-started by Tetra Tech personnel at 15:09.													
6/20/2016	7:55	8,206	168,339,159	23.0	33,180	995,406	*System shut down due to power interruption. Main breaker switch on outside of remediation system building was turned													
6/20/2016	11:43	228	168,339,159	0.0	0	0	*to OFF position by Deerfield personnel. Main breaker switch turned back to ON and system re-started by Tt personnel.													
6/20/2016	11:58	15	168,339,277	7.9	11,328	339,840														
6/21/2016	13:00	1,502	168,374,139	23.2	33,423	1,002,689	*System shut down by Deerfield personnel so drainage ditch can be dredged.													
6/28/2016	15:07	10,207	168,374,139	0.0	0	0	*Re-started by Tetra Tech personnel. Re-filled AquaMag solution tank.													
6/28/2016	15:14	7	168,374,291	21.7	31,269	938,057														
6/29/2016	15:52	1,478	168,400,021	17.4	25,068	752,054	*Installed new batteries in autodialer and re-set autodialer time. Meter stopped registering flow about 15:53. Tapped on													
6/29/2016	16:04	12	168,400,187	13.8	19,920	597,600	*right side of meter for several seconds and meter started registering flow about 16:00.													
6/29/2016	16:06	2	168,400,234	23.5	33,840	1,015,200														
7/12/2016	14:32	18,626	168,816,188	22.3	32,158	964,738														
7/27/2016	6:29	21,117	169,300,697	22.9	33,039	991,182	*System shut down due to high air stripper sump water level and high blower pressure alarm condition.													
7/27/2016	14:26	477	169,300,697	0.0	0	0	*Re-started by Tetra Tech personnel. Checked outfall and monitored system for 15 minutes. System operating when													
7/27/2016	14:32	6	169,300,839	23.7	34,080	1,022,400	*left site.													
7/27/2016	14:40	8	169,301,026	23.4	33,660	1,009,800														
8/9/2016	16:00	18,800	169,343,033	2.2	3,218	96,527	*Shut system down to back-flush water through water meter because meter was registering very low flow.													
8/9/2016	16:05	5	169,343,033	0.0	0	0	*Re-start system at 16:05. Meter starts registering expected flow of 22-23 gpm.													
8/9/2016	16:25	20	169,343,491	22.9	32,976	989,280	*Add 388,513 to total system flow (based on 22.9 gpm pumping rate) to account for low recording by water meter.													
8/23/2016	14:15	20,030	169,775,330	21.6	31,046	931,375														
8/23/2016	14:25	10	169,775,555	22.5	32,400	972,000	<0.70	2.6	<0.38	<0.20	<0.70	150	6.6	<0.20	13.4	1125	8.42	11.8	1183	7.43
9/6/2016	14:35	20,170	170,230,470	22.6	32,478	974,335	*Checked system and re-filled AquaMag solution tank.													
9/20/2016	10:27	19,912	170,677,803	22.5	32,350	970,510	*Checked system and re-filled AquaMag solution tank.													
10/4/2016	10:29	20,162	171,128,120	22.3	32,162	997,032	*Checked system and re-filled AquaMag solution tank.													
10/15/2016	21:18	16,489	171,498,589	22.5	32,353	1,002,956	*System shut down caused by temporary power outage due to thunderstorm.													
10/17/2016	13:05	2,387	171,498,589	0.0	0	0	*Re-started by Tetra Tech personnel.													
10/17/2016	13:20	15	171,498,889	20.0	28,800	892,800	*Checked system and re-filled AquaMag solution tank.													
10/17/2016	13:35	15	171,499,215	21.7	31,296	970,176	*Checked system and re-filled AquaMag solution tank.													
11/8/2016	13:42	31,687	172,200,344	22.1	31,862	955,874	*Checked system and re-filled AquaMag solution tank.													
11/15/2016	9:19	9,817	172,415,952	22.0	31,626	948,789	*Took delivery of AquaMag and re-filled AquaMag solution tank.													
11/29/2016	13:10	20,391	172,858,517	21.7	31,254	937,610														

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
11/29/2016	13:15	5	172,858,626	21.8	31,392	941,760	<0.70	2.4	<0.38	<0.20	<0.70	160	5.9	<0.20	12.4	1048	8.26	12.9	1086	7.36
12/14/2016	11:20	21,485	173,324,838	21.7	31,247	937,415	*Checked system and re-filled AquaMag solution tank.													
12/27/2016	14:10	18,890	173,732,731	21.6	31,094	932,820	*Checked system and re-filled AquaMag solution tank.													
1/3/2017	18:40	10,350	173,956,212	21.6	31,093	963,883	*Automatic shut down of system due to Alarm Condition 2 (high sump water level) and 3 (high blower pressure).													
1/4/2017	10:27	947	173,956,212	0.0	0	0	*Clear alarms, re-set air stripper blower motor circuit breaker and re-start system at 10:27.													
1/4/2017	10:56	29	173,956,837	21.6	31,034	962,069	*Leave site at 11:05 with system operating.													
1/17/2017	13:20	18,864	174,355,515	21.1	30,433	943,436	*Checked system and re-filled AquaMag solution tank.													
1/31/2017	13:05	20,145	174,780,253	21.1	30,361	941,192	*Checked system and re-filled AquaMag solution tank.													
2/21/2017	13:55	30,290	175,420,587	21.1	30,442	943,695	*Checked system and re-filled AquaMag solution tank.													
3/1/2017	10:45	11,330	175,659,142	21.1	30,319	939,902	<0.70	2.1	<0.38	<0.20	<0.70	160	5.0	<0.20	12.0	1028	8.58	12.6	1036	7.78
3/14/2017	10:20	18,695	176,050,454	20.9	30,141	934,376	*Shut system down at request of Village of Deerfield for storm sewer maintenance.													
3/15/2017	13:50	1,650	176,050,454	0.0	0	0	*Re-start system.													
3/24/2017	9:58	12,728	176,324,574	21.5	31,013	961,401	*Autodialer called at 19:40 on 3/23/2017 for a high air stripper sump water level alarm condition most likely caused by													
3/24/2017	10:04	6	176,324,705	21.8	31,440	974,640	* temporary power interruption due to a thunderstorm. Remediation system was operating when system checked on													
3/24/2017	10:20	16	176,325,052	21.7	31,230	968,130	*3/24/2017. Re-filled AquaMag solution tank.													
4/25/2017	15:15	46,375	177,334,277	21.8	31,338	940,130	*Checked system and re-filled AquaMag solution tank.													
5/17/2017	15:15	31,680	178,012,676	21.4	30,836	955,926	<0.70	2.3	<0.38	<0.20	<0.70	140	5.2	<0.20	14.0	1060	8.23	13.0	1073	7.74
5/23/2017	14:55	8,620	178,188,662	20.4	29,399	911,371	*Checked system and re-filled AquaMag solution tank.													
6/22/2017	11:25	42,990	179,066,400	20.4	29,401	882,026	*Checked system and re-filled AquaMag solution tank.													
7/20/2017	12:05	40,360	179,762,500	17.2	24,836	745,082	*Checked system and re-filled AquaMag solution tank.Water meter stops registering every few seconds (starts & stops).													
7/20/2017	12:10	5	179,762,500	0.0	0	0	*Turned system on & off several times to back-flush water through meter. Meter would register flow for a few seconds													
7/20/2017	12:30	20	179,762,502	0.1	144	4,320	*then slow down and stop. Tapped outside of meter with a hammer but again would only register flow for a few seconds													
7/20/2017	12:40	10	179,762,502	0.0	0	0	*then stop. Adjust total system flow based on 20.4 gpm pumping rate. Meter not working at all when left site.													
8/8/2017	15:40	27,540	179,770,593	0.3	423	13,115	*Checked system and re-filled AquaMag solution tank. Meter not registering flow on arrival. Total system flow calculated based on 20.4 gpm pumping rate													
8/22/2017	10:00	19,820	179,772,335	0.1	127	3,923	*Site visit to meet with contractor about moving treatment system building. Fill AquaMag tank. Meter not working.													
8/23/2017	10:00	1,440	179,772,335	0.0	0	0	*Shut system down. Install new flow meter and hose connecting fow meter to air stripper and influent line.													
8/23/2017	17:05	425	0				*Replace particulate filters on influent line. Replace air filter on air stripper blower motor. Re-start at 17:05													
8/23/2017	17:10	5	98	19.6	28,224	874,944														
8/23/2017	17:30	20	492	19.7	28,368	879,408														
9/5/2017	14:35	18,545	361,428	19.5	28,026	840,789	*Checked system, re-filled AquaMag solution tank and collect quarterly WPDES samples.													
9/5/2017	14:40	5	361,525	19.4	27,936	838,080	<0.70	1.4	<0.38	<0.20	<0.70	130	5.2	<0.20	14.3	1023	8.08	15.1	1028	6.99
9/11/2017	11:43	8,463	523,610	19.2	27,579	827,375	*High air stripper sump water level and high blower pressure alarms called in by autodialer.													
9/11/2017	17:25	342	523,610	0.0	0	0	*Re-started by Tt personnel. Check outfall flow, blower motor air inlet and air stripper exhaust outlet; all are clear.													
9/11/2017	17:39	14	523,879	19.2	27,669	830,057	*Leave site at 17:40 with system operating.													
9/20/2017	8:40	12,421	758,963	18.9	27,254	817,618	*Checked system and re-filled AquaMag solution tank.													
10/3/2017	15:10	19,110	1,120,174	18.9	27,218	843,771	*Checked system and re-filled AquaMag solution tank.													
10/17/2017	15:00	20,150	1,496,534	18.7	26,896	833,782	*Checked system and re-filled AquaMag solution tank.													

Table 1. WPDES Effluent and Influent Discharge Monitoring Summary Sheet, Former Sta-Rite Facility, Deerfield, Wisconsin

Date	Time	Elapsed Time (min)	Meter Reading (gal)	Flow (gpm)	Effluent Results - WPDES parameters						Influent Results				Effluent Field Parameters			Influent Field Parameters		
					Flow (gal/day)	Flow (gal/month)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	BETX (ug/l)	TCE (ug/l)	TCA (ug/l)	Vinyl Chloride (ug/l)	Temp (deg C)	electrical conduct. (µS/cm)	pH	Temp (deg C)	electrical conduct. (µS/cm)	pH
10/26/2017	23:10	13,450	1,746,270	18.6	26,738	828,864	*High air stripper sump water level and high blower pressure alarms called in by autodialer.													
10/27/2017	10:45	695	1,746,270	0.0	0	0	*System re-started by Tetra Tech personnel.													
10/27/2017	11:05	20	1,746,634	18.2	26,208	812,448														
10/31/2017	12:13	5,828	1,852,897	18.2	26,256	813,929	*Checked system and re-filled AquaMag solution tank.													
11/15/2017	15:35	21,802	2,251,870	18.3	26,352	790,553	<0.70	1.4	<0.38	<0.20	<0.70	140	5.0	<0.20	12.7	1046	8.23	13.1	1044	7.25
11/15/2017	15:40	5	2,251,961	18.2	26,208	917,280	*Turn off extraction well. Pump purge water from monitor wells sampling round through air stripper.													
11/15/2017	16:05	25	2,251,961	0.0	0	0	*Re-start extraction well. AquaMag tank stirrer was not spinning; motor was very hot. Stirrer was un-plugged.													
11/16/2017	16:30	1,465	2,278,243	17.9	25,834	775,005	*Shut-down caused by temporary power outage.													
11/17/2017	8:30	960	2,278,243	0.0	0	0	*Re-start system.													
11/17/2017	8:35	5	2,278,333	18.0	25,920	777,600														
11/25/2017	15:20	11,925	2,490,844	17.8	25,662	769,851	*Shut-down caused by temporary power outage.													
11/27/2017	17:00	2,980	2,490,844	0.0	0	0	*Re-start system.													
11/27/2017	17:05	5	2,490,934	18.0	25,920	777,600														
11/28/2017	15:15	1,330	2,514,829	18.0	25,871	776,138	*Checked system and re-filled AquaMag solution tank. Adjusted chemical pump settings.													
12/15/2017	9:50	24,155	2,949,645	18.0	25,922	803,568	*Checked system and re-filled AquaMag solution tank. Adjusted chemical pump settings.													
12/26/2017	10:40	15,890	3,239,843	18.3	26,299	815,257	*Checked system and re-filled AquaMag solution tank. Adjusted chemical pump settings.													

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	**ES**	**5**	**70**	**100**	**200**	**7**	**5**	**850**	**0.2**	**5**	**5**		**700**	**5**	**800**	**2000**
NR 140	**PAL**	**0.5**	**7**	**20**	**40**	**0.7**	**0.5**	**85**	**0.02**	**0.5**	**0.5**		**140**	**0.5**	**160**	**400**
MW-10S	1-Apr-94	**3**	<1	<1	**25**	**1**	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
	1-May-94	**8**	<4	<4	**100**	<4	26	<4	<4	<4	<4	<4	<4	<4	<4	<4
	12-Mar-96	**5**	<0.5	<0.5	**64**	**2**	<0.5	**12**	<0.5	<0.5	<0.5	<15	<0.5	<0.5	<0.5	<15
	18-Dec-96	**7.4**	<0.5	<0.5	**149**	**5.1**	<0.5	**22.8**	<0.5	<0.5	<0.5	<0.5	<0.5	**0.7**	<0.5	<0.5
	Mar-00 through Dec-02: Could not sample, roots blocking well screen.															
	21-Mar-03	**1.6**	**8.8**	<0.50	**2.0**	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
	12-Jun-03	<0.25	<0.50	<0.50	**0.63**	**0.85**	<0.50	<0.50	<0.50	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
(duplicate)	12-Jun-03	<0.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
MW-10S	23-Sep-03	<0.25	<0.50	<0.50	**1.6**	<0.50	<0.50	<0.50	<0.25	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
	19-Dec-03	<0.20	<0.50	<0.50	**3.2**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	18-Mar-04	<0.20	<0.50	<0.50	**2.4**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	22-Jun-04	<0.20	<0.50	<0.50	**2.2**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	8-Sep-04	<0.20	<0.50	<0.50	**1.8**	<0.50	<0.50	**0.72**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	28-Dec-04	<0.20	<0.50	<0.50	**2.4**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	16-Mar-05	<0.20	<0.50	<0.50	**1.5**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	29-Jun-05	<0.20	<0.50	<0.50	**2.8**	<0.50	<0.50	**0.69**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	20-Sep-05	<0.20	<0.50	<0.50	**2.7**	<0.50	<0.50	**0.90**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	29-Dec-05	<0.20	<0.50	<0.50	**3.2**	<0.50	<0.50	**0.92**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	16-May-06	**0.32**	<0.50	<0.50	**5.9**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	21-Nov-06	**0.33**	<0.50	<0.50	**4.5**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	22-May-07	<0.20	<0.50	<0.50	**3.3**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	4-Dec-07	**0.77**	<0.50	<0.50	**4.5**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	29-May-08	**0.20**	<0.50	<0.50	**2.8**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-10S	25-Nov-08	**3.8**	<0.50	<0.50	**10**	<0.50	<0.50	**0.77**	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-10S	1-Apr-94	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	30
	1-May-94	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	134
	12-Mar-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	83
	18-Dec-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	185
	Mar-00 thro														NA
	21-Mar-03	**0.58**	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.50	12.98
	12-Jun-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.25	1.48
(duplicate)	12-Jun-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.25	0
MW-10S	23-Sep-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.25	1.6
	19-Dec-03	<0.20	<0.20	<0.20	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	3.2
	18-Mar-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	2.4
	22-Jun-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	2.2
	8-Sep-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	2.52
	28-Dec-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	2.4
	16-Mar-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	1.5
	29-Jun-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	3.49
	20-Sep-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	3.6
	29-Dec-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	4.12
	16-May-06	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	6.22
	21-Nov-06	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	4.83
	22-May-07	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	3.3
	4-Dec-07	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	5.27
	29-May-08	<0.20	<0.50	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	3
MW-10S	25-Nov-08	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	14.57

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-10S	19-May-09	<0.20	<0.50	<0.50	**2.4**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	18-Nov-09	0.20	<0.50	<0.50	**5.0**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	13-May-10	<0.20	<0.50	<0.50	**3.5**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	16-Nov-10	<0.20	<0.50	<0.50	**4.1**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	12-May-11	<0.20	<0.50	<0.50	**3.2**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	9-Nov-11	<0.20	<0.50	<0.50	**4.1**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	10-May-12	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-Dec-12	<0.19	<0.12	<0.25	**4.8**	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	5-Jun-13	<0.19	<0.12	<0.25	**2.9**	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-Nov-13	**0.62**	<0.12	<0.25	**3.4**	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	13-May-14	<0.19	<0.12	<0.25	**2.8**	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	6-Nov-14	<0.19	<0.12	<0.25	**3.9**	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	14-May-15	<0.19	<0.12	<0.25	**4.0**	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	11-Nov-15	<0.16	<0.41	<0.35	**3.3**	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	18-May-16	<0.16	<0.41	<0.35	**2.7**	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	28-Nov-16	<0.16	<0.41	<0.35	**4.4**	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	17-May-17	<0.16	<0.41	<0.35	**2.5**	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
MW-10S	15-Nov-17	<0.16	<0.41	<0.35	**3.5**	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
MW-10I	1-Apr-94	**2800**	<1700	<1700	**69000**	**5000**	<1700	**2600**	<1700	<1700	<1700	<1700	<1700	<1700	<1700	<1700
	1-May-94	**19000**	<2500	<2500	**54000**	**2200**	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500
	12-Mar-96	**3000**	<0.5	<0.5	**52000**	**2700**	<0.5	**3900**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	18-Dec-96	**1780**	<5	<0.5	**32500**	**2820**	<0.5	**2360**	<0.5	<0.5	<0.5	<0.5	<0.5	**37.7**	**32**	<0.5
	11-Mar-00	**1900**	<250	<250	**51000**	**2600**	<250	**1300**	<250	<100	<250	<250	<250	<250	<100	<250
(duplicate)	11-Mar-00	**2100**	<250	<250	**56000**	**3100**	<250	**1200**	<250	<100	<250	<250	<250	<250	<100	<250
MW-10I	17-May-00	**1100**	<200	<200	**30000**	**1300**	<200	**740**	<200	<80	<200	<200	<200	<200	<80	<200

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-10S	19-May-09	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**2.4**
	18-Nov-09	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**5.2**
	13-May-10	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**3.5**
	16-Nov-10	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**4.1**
	12-May-11	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**3.2**
	9-Nov-11	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**4.1**
	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	12-Dec-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**4.8**
	5-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**2.9**
	12-Nov-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**4.02**
	13-May-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**2.8**
	6-Nov-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**3.9**
	14-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**4**
	11-Nov-15	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.46	<0.37	**3.3**
	18-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**2.7**
	28-Nov-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**4.4**
	17-May-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**2.5**
MW-10S	15-Nov-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**3.5**
MW-10I	1-Apr-94	<1700	<1700	<1700	<1700	<1700	<1700	<1700	<1700	**50**	<0.5	<0.5	<0.5	<0.5	**79450**
	1-May-94	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	**75200**
	12-Mar-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**61600**
	18-Dec-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**39529.7**
	11-Mar-00	<250	<250	<250	<250	<250	<250	<250	<250	<250	**630 L**	<250	<250	<250	**57430**
(duplicate)	11-Mar-00	<250	<250	<250	<250	<250	<250	<250	<250	<250	**520 L**	<250	<250	<250	**62920**
MW-10I	17-May-00	<200	<200	<200	<200	<200	<200	<200	<200	<200	**660 L**	<200	<200	<200	**33800**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-10I	15-Sep-00	640	<100	<100	17000	750	<100	610	<100	<40	<100	<100	<100	<100	<40	<100
MW-10I	16-Mar-01	820	<120	<120	21000	820	<120	820	<120	<50	<120	<120	<120	<120	<50	<120
	26-Jun-01	530	<100	<100	13000	600	<100	640	<100	<40	<100	<100	<100	<100	<40	<100
MW-10I	20-Sep-01	660	<100	<100	14000	560	<100	830	<100	<40	<100	<100	<100	<100	<40	<100
(duplicate)	20-Sep-01	700	<100	<100	17000	650	<100	880	<100	<40	<100	<100	<100	<100	<40	<100
MW-10I	18-Dec-01	300	<100	<100	7600	440	<100	260	<100	<40	<100	<100	<100	<100	<40	<100
	27-Mar-02	210	<62	<62	3100	100	<62	140	<62	<25	<62	<62	<62	<62	<25	<62
	6-Jun-02	280	<50	<50	5300	190	<50	250	<50	<20	<50	<50	<50	<50	<20	<50
	5-Sep-02	150	<25	<25	3000	110	<25	110	<25	<10	<25	<25	<25	<25	<10	<25
MW-10I	11-Dec-02	120	<12	<12	1800	69	<12	97	<12	<5.0	<12	<12	<12	<12	<5.0	<12
(duplicate)	11-Dec-02	120	<12	<12	2000	79	<12	97	<12	<5.0	<12	<12	<12	<12	<5.0	<12
MW-10I	20-Mar-03	76	<5.0	<0.50	750	27	<0.50	62	<0.50	<0.25	<0.50	<0.50	<0.50	3.6	<0.25	<0.50
(duplicate)	20-Mar-03	75	<5.0	<5.0	730	26	<5.0	77	<5.0	<2.5	<5.0	<5.0	<5.0	<5.0	<2.5	<5.0
MW-10I	12-Jun-03	240	<50	<50	4500	110	<50	300	<50	<25	<50	<50	<50	<50	<25	<50
	23-Sep-03	98	<12	<12	1300	52	<12	72	<6.2	<6.2	<12	<12	<12	<12	<6.2	<12
	19-Dec-03	310	<40	<40	7200	180	<40	330	<16	<16	<40	<40	<40	<40	<16	<40
	18-Mar-04	130	<25	<25	2000	66	<25	120	<10	<10	<25	<25	<25	<25	<10	<25
	22-Jun-04	78	<20	<20	800	31	<20	78	<8.0	<8.0	<20	<20	<20	<20	<8.0	<20
	8-Sep-04	65	<8.0	<8.0	680	27	<8.0	67	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
(duplicate)	8-Sep-04	61	<8.0	<8.0	620	26	<8.0	64	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
MW-10I	28-Dec-04	48	<5.0	<5.0	280	14	<5.0	43	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	16-Mar-05	41	<5.0	<5.0	230	11	<5.0	44	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	29-Jun-05	51	<5.0	<5.0	310	12	<5.0	31	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	20-Sep-05	41	<2.5	<2.5	220	10	<2.5	31	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
MW-10I	29-Dec-05	50	<2.5	<2.5	370	15	<2.5	44	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
MW-10I	15-Sep-00	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<200	<200	<200	**19000**
MW-10I	16-Mar-01	<120	<120	<120	<120	<120	<120	<120	<120	<120	**920 L**	<200	<200	<200	**24380**
	26-Jun-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	**540 L**	<100	<100	<100	**15310**
MW-10I	20-Sep-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<100	**16050**
(duplicate)	20-Sep-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<100	**19230**
MW-10I	18-Dec-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	**140 L**	<100	<100	<100	**8740**
	27-Mar-02	<62	<62	<62	<62	<62	<62	<25	<25	<62	**260 L**	<62	<62	<62	**3810**
	6-Jun-02	<50	<50	<50	<50	<50	<50	<20	<20	<50	**410 L**	<50	<50	<50	**6430**
	5-Sep-02	<25	<25	<25	<25	<25	<25	<10	<10	<25	**150 L**	<25	<25	<25	**3520**
MW-10I	11-Dec-02	<12	<12	<12	<12	<12	<12	<5.0	<5.0	<12	**20 L**	<12	<12	<12	**2106**
(duplicate)	11-Dec-02	<12	<12	<12	<12	<12	<12	<5.0	<5.0	<12	**20 L**	<12	<12	<12	**2316**
MW-10I	20-Mar-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	**0.29**	<1.0	<0.50	<0.25	<0.25	**918.89**
(duplicate)	20-Mar-03	<2.5	<2.5	<2.5	<2.5	<5.0	<2.5	<2.5	<2.5	<2.5	<10	<5.0	<2.5	<2.5	**908**
MW-10I	12-Jun-03	<25	<25	<25	<25	<50	<25	<25	<25	<25	<100	<50	<25	<25	**5150**
	23-Sep-03	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<25	<25	<6.2	<6.2	**1522**
	19-Dec-03	<16	<16	<20	<16	<40	<20	<16	<16	<20	<80	<40	<16	<16	**8020**
	18-Mar-04	<10	<10	<12	<10	<25	<12	<10	<10	<12	<50	<25	<10	<10	**2316**
	22-Jun-04	<8.0	<8.0	<10	<8.0	<20	<10	<8.0	<8.0	<10	<40	<20	<8.0	<8.0	**987**
	8-Sep-04	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**839**
(duplicate)	8-Sep-04	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**771**
MW-10I	28-Dec-04	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<8.0	<2.0	<2.0	**385**
	16-Mar-05	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<8.0	<2.0	<2.0	**326**
	29-Jun-05	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<8.0	<2.0	<2.0	**404**
	20-Sep-05	<1.0	<1.0	<1.2	<1.0	<2.5	<1.2	<1.0	<1.0	<1.2	<5.0	<2.5	<1.0	<1.0	**302**
MW-10I	29-Dec-05	<1.0	<1.0	<1.2	<1.0	<2.5	<1.2	<1.0	<1.0	<1.2	<5.0	<2.5	<1.0	<1.0	**479**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-10I	16-May-06	50	3.5	<2.5	290	12	<2.5	27	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	21-Nov-06	48	7.2	<2.5	210	7.2	<2.5	24	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	22-May-07	51	7.1	<2.0	170	6.6	<2.0	19	<0.40	<0.80	<2.0	<2.0	<2.0	<2.0	<0.80	<2.0
	4-Dec-07	48	6.3	<1.0	130	8.7	<1.0	20	<0.40	<0.40	<1.0	<1.0	<1.0	<1.0	<0.40	<1.0
	29-May-08	62	5.2	<0.50	270	15	<0.50	36	<0.20	<0.20	<0.50	<0.50	<0.50	2.4	<0.50	<0.50
	25-Nov-08	46	3.2	<2.5	210	8.5	<2.5	32	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
MW-10I	19-May-09	69	<10	<10	920	30	<10	46	4.4	<4.0	<10	<10	<10	<10	<10	<10
(duplicate)	19-May-09	72	<10	<10	1000	31	<10	51	4.8	<4.0	<10	<10	<10	<10	<10	<10
MW-10I	18-Nov-09	43	<2.0	<2.0	150	6.6	<2.0	20	<0.80	<0.80	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
(duplicate)	18-Nov-09	42	<2.0	<2.0	140	6.4	<2.0	20	<0.80	<0.80	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-10I	13-May-10	41	1.8	<1.0	140	5.1	<1.0	12	<0.40	<0.40	<1.6	<1.0	<1.0	1.4	<1.0	<1.0
(duplicate)	13-May-10	45	1.9	<1.0	170	5.8	<1.0	13	<0.40	<0.40	<1.6	<1.0	<1.0	1.6	<1.0	<1.0
MW-10I	16-Nov-10	34	1.2	<1.0	130	5.2	<1.0	15	<0.40	<0.40	<1.6	<1.0	<1.0	1.4	<1.0	<1.0
	12-May-11	32	1.3	<1.0	90	3.2	<1.0	12	<0.40	<0.40	<1.6	<1.0	<1.0	1.1	<1.0	<1.0
	9-Nov-11	41	1.3	<0.50	100	5.2	<0.50	19	<0.20	<0.20	<0.80	<0.50	<0.50	1.5	<0.50	<0.50
	10-May-12	37	1.2	<0.25	150	6.2	<0.28	12	<0.10	<0.074	<0.26	<0.34	<0.13	1.7	<0.11	<0.068
	12-Dec-12	28	0.94	<0.25	59	3.9	<0.28	15	<0.10	<0.074	<0.26	<0.34	<0.13	1.2	<0.11	<0.068
	5-Jun-13	29	0.84	<0.25	150	6.3	<0.28	12	<0.10	<0.074	<0.26	<0.34	<0.13	1.3	<0.11	<0.068
	12-Nov-13	29	<0.12	<0.25	100	6.8	<0.28	15	<0.10	<0.074	<0.26	<0.34	<0.13	1.5	<0.11	<0.068
	13-May-14	29	0.89	<0.25	140	8.7	<0.28	14	<0.10	<0.074	<0.26	<0.34	<0.13	1.7	<0.11	<0.068
	6-Nov-14	27	0.64	<0.25	120	6.7	<0.28	16	<0.10	<0.074	<0.26	<0.34	<0.13	1.8	<0.11	<0.068
	14-May-15	34	0.75	<0.25	210	8.6	<0.28	21	<0.10	<0.074	<0.26	<0.34	<0.13	2.2	<0.11	<0.068
	11-Nov-15	22	<0.41	<0.35	96	4.1	<0.39	14	<0.20	<0.15	<0.38	<0.30	<0.18	1.4	<0.15	<0.22
	18-May-16	27	0.68	<0.35	210	6.9	<0.39	24	<0.20	<0.15	<0.38	<0.30	<0.18	1.8	<0.15	<0.22
MW-10I	28-Nov-16	23	<0.41	<0.35	94	4.9	<0.39	13	<0.20	<0.15	<0.38	<0.30	<0.18	1.4	<0.15	<0.22

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-10I	16-May-06	<1.0	<1.0	<1.2	<1.0	<2.5	<1.2	<1.0	<1.0	<1.2	<5.0	<2.5	<1.0	<1.0	**382.5**
	21-Nov-06	<1.0	<1.0	<1.2	<1.0	<2.5	<1.2	<1.0	<1.0	<1.2	<5.0	<2.5	<1.0	<1.0	**296.4**
	22-May-07	<0.80	<0.80	<1.0	<0.80	<2.0	**1.8**	**0.96**	<0.80	<1.0	<4.0	<2.0	<0.80	<0.80	**256.46**
	4-Dec-07	<0.40	<0.40	<0.50	<0.40	<1.0	<0.50	<0.40	<0.40	<0.50	<2.0	<1.0	<0.40	<0.40	**213**
	29-May-08	<0.20	<0.50	<0.25	<0.20	<0.50	**0.41**	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**391.01**
	25-Nov-08	<1.0	<1.5	<1.2	<1.0	<2.5	<1.2	<1.0	<1.0	<1.2	<5.0	<2.5	<1.0	<1.0	**299.7**
MW-10I	19-May-09	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**1069.4**
(duplicate)	19-May-09	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**1158.8**
MW-10I	18-Nov-09	<0.80	<1.2	<1.0	<0.80	<2.0	<1.0	<0.80	<0.80	<1.0	<4.0	<2.0	<0.80	<0.80	**219.6**
(duplicate)	18-Nov-09	<0.80	<1.2	<1.0	<0.80	<2.0	<1.0	<0.80	<0.80	<1.0	<4.0	<2.0	<0.80	<0.80	**208.4**
MW-10I	13-May-10	<0.40	<0.60	<0.50	<0.40	<1.0	<0.50	<0.40	<0.40	<0.50	<2.0	<1.0	<0.40	<0.40	**201.3**
(duplicate)	13-May-10	<0.40	<0.60	<0.50	<0.40	<1.0	<0.50	<0.40	<0.40	<0.50	<2.0	<1.0	<0.40	<0.40	**237.3**
MW-10I	16-Nov-10	<0.40	<0.60	<0.50	<0.40	<1.0	<0.50	<0.40	<0.40	<0.50	<2.0	<1.0	<0.40	<0.40	**186.8**
	12-May-11	<0.40	<0.60	<0.50	<0.40	<1.0	<0.50	<0.40	<0.40	<0.50	<2.0	<1.0	<0.40	<0.40	**139.6**
	9-Nov-11	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**168**
	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**208.1**
	12-Dec-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**108.04**
	5-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**199.44**
	12-Nov-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**152.3**
	13-May-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**194.29**
	6-Nov-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**172.14**
	14-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**276.55**
	11-Nov-15	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.46	<0.37	**137.5**
	18-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**270.38**
MW-10I	28-Nov-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**136.3**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-10I	17-May-17	26	0.78	<0.35	44	2.6	<0.39	9.7	<0.20	<0.15	<0.38	<0.30	<0.18	0.84	<0.15	<0.22
MW-10I	15-Nov-17	26	<0.41	<0.35	51	2.2	<0.39	12	<0.20	<0.15	<0.38	<0.30	<0.18	0.95	<0.15	<0.22
MW-14S	1-May-94	230000	14000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000
MW-14S	12-Mar-96	120000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-14S	18-Dec-96	248000	9490	<0.5	<0.5	26.3	<0.5	<0.5	<0.5	13.4	<5	<5	5.5	69.9	81.3	<5
MW-14SR	11-Mar-00	26000	7000	<120	<120	<120	<120	<120	<120	<50	<120	<120	<120	<120	<50	<120
	17-May-00	1000	250	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2
	15-Sep-00	640	110	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<6.2	<6.2	<6.2	<5.0	<6.2	<6.2
MW-14SR	28-Dec-00	1200	200	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<5.0	<2.0	<2.0
	16-Mar-01	490	91	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	26-Jun-01	850	95	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	20-Sep-01	1400	110	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	18-Dec-01	1500	120	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<2.5	<6.2	<6.2	<6.2	<6.2	<2.5	<6.2
	27-Mar-02	1000	61	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<2.5	<6.2	<6.2	<6.2	<6.2	<2.5	<6.2
	6-Jun-02	1700	85	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<2.5	<6.2	<6.2	<6.2	<6.2	<2.5	<6.2
	5-Sep-02	1700	100	<10	<10	<10	<10	<10	<10	<4.0	<10	<10	<10	<10	<10	<10
	12-Jun-03	920	60	<10	<10	<10	<10	<10	<10	<5.0	<10	<10	<10	<10	<5.0	<10
	18-Dec-03	1200	56	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
	18-Mar-04	1000	45	<12	<12	<12	<12	<12	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
	21-Jun-04	300	33	<4.0	<4.0	<4.0	<4.0	<4.0	<1.6	<1.6	<4.0	<4.0	<4.0	<4.0	<1.6	<4.0
	8-Sep-04	680	40	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	28-Dec-04	760	31	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	15-Mar-05	710	29	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	29-Jun-05	960	34	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
MW-14SR	16-May-06	1200	26	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
MW-10I	17-May-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**83.92**
MW-10I	15-Nov-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**92.15**
MW-14S	1-May-94	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	**244000**
MW-14S	12-Mar-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**120000**
MW-14S	18-Dec-96	**23.4**	**21.5**	<5	<5	<5	<5	<5	<5	**49.1**	**131 L**	<5	<5	<5	**257911.4**
MW-14SR	11-Mar-00	<120	<120	<120	<120	<120	<120	<120	<120	<120	**220 L**	<120	<120	<120	**33220**
	17-May-00	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	**91 L**	<6.2	<6.2	<6.2	**1341**
	15-Sep-00	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<5.0	<5.0	<6.2	<6.2	<6.2	**750**
MW-14SR	28-Dec-00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**9.2 L**	<5.0	<5.0	<5.0	**1409.2**
	16-Mar-01	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**49 L**	<5.0	<5.0	<5.0	**630**
	26-Jun-01	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**13 L**	<2.5	<2.5	<2.5	**958**
	20-Sep-01	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	**1510**
	18-Dec-01	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<2.5	<2.5	<6.2	**16 L**	<6.2	<6.2	<6.2	**1636**
	27-Mar-02	<6.2	<6.2	<6.2	<6.2	<6.2	**28**	**7.0**	<2.5	<6.2	**23 L**	<6.2	<6.2	<6.2	**1119**
	6-Jun-02	<6.2	<6.2	<6.2	<6.2	<6.2	<6.2	<2.5	<2.5	<6.2	**49 L**	<6.2	<6.2	<6.2	**1834**
	5-Sep-02	<10	<10	<10	<10	<10	<10	<4.0	<4.0	<10	**53 L**	<10	<10	<10	**1853**
	12-Jun-03	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<20	<10	<5.0	<5.0	**980**
	18-Dec-03	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**1256**
	18-Mar-04	<5.0	<5.0	<6.2	<5.0	<5.0	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**1045**
	21-Jun-04	<1.6	<1.6	<2.0	<1.6	<4.0	<2.0	<1.6	<1.6	<2.0	<8.0	<8.0	<1.6	<1.6	**333**
	8-Sep-04	<1.0	<1.0	<1.2	<1.0	<1.0	<1.2	<1.0	<1.0	<1.2	<5.0	<2.5	<1.0	<1.0	**720**
	28-Dec-04	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**791**
	15-Mar-05	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**739**
	29-Jun-05	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**994**
MW-14SR	16-May-06	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**1226**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-14SR	22-Nov-06	1300	32	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
	22-May-07	900	18	<10	<10	<10	<10	<10	<4.0	<4.0	<10	<10	<10	<10	<4.0	<10
	4-Dec-07	900	16	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
	29-May-08	660	13	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
	25-Nov-08	860	16	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	19-May-09	580	8.3	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	18-Nov-09	990	12	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	13-May-10	820	9.1	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
MW-14SR	16-Nov-10	780	9.2	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12-May-11	600	7.6	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	9-Nov-11	780	8.2	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	10-May-12	690	7.3	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-Dec-12	740	7.9	<0.50	<0.40	<0.62	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	5-Jun-13	470	3.9	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-Nov-13	610	8.1	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	13-May-14	460	6.2	<0.50	<0.40	<0.62	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	7-Nov-14	620	5.5	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	14-May-15	520	5.6	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-Nov-15	530	5.2	<0.70	<0.76	<0.78	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
	18-May-16	480	4.0	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	28-Nov-16	710	5.2	<0.70	<0.76	<0.78	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
	17-May-17	490	2.5	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
MW-14SR	15-Nov-17	500	2.4	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	**0.44**	<0.15	<0.22
MW-14I	1-May-94	290000	13000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<12000	<0.5	<12000	<12000
MW-14I	12-Mar-96	100000	14000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
MW-14SR	22-Nov-06	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**1332**
	22-May-07	<4.0	<4.0	<5.0	<4.0	<10	**6.4**	**19**	**8.0**	<5.0	<20	<10	<4.0	<4.0	**951.4**
	4-Dec-07	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**916**
	29-May-08	<3.2	<8.0	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**673**
	25-Nov-08	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**876**
	19-May-09	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**588.3**
	18-Nov-09	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**1002**
	13-May-10	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**829.1**
MW-14SR	16-Nov-10	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**789.2**
	12-May-11	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**607.6**
	9-Nov-11	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**788.2**
	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.25	<0.17	**697.3**
	12-Dec-12	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**747.9**
	5-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**473.9**
	12-Nov-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**618.1**
	13-May-14	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**466.2**
	7-Nov-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**625.5**
	14-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**525.6**
	12-Nov-15	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	<3.3	<0.79	<0.92	<0.74	**535.2**
	18-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**484**
	28-Nov-16	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	<3.3	<0.79	<0.80	<0.74	**715.2**
	17-May-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**492.5**
MW-14SR	15-Nov-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**502.84**
MW-14I	1-May-94	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<12000	<0.5	<0.5	<0.5	<0.5	**303000**
MW-14I	12-Mar-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**114000**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-14I	12-Mar-96	77000	10000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	18-Dec-96	51800	10800	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.1	<0.5	<0.5	9.4	108	46.5	23
MW-14I	18-Dec-96	53700	9520	29.5	<0.5	<0.5	<0.5	<0.5	<0.5	14.8	<0.5	<0.5	6.3	93.2	56.1	18.5
MW-14IR	11-Mar-00	190000	17000	<2500	<2500	<2500	<2500	<2500	<2500	<1000	<2500	<2500	<2500	<2500	<1000	<2500
	17-May-00	150000	13000	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500
MW-14IR	14-Sep-00	84000	7500	<500	<500	<500	<500	<500	<500	<200	<500	<500	<500	<500	<500	<500
MW-14IR	28-Dec-00	99000	7500	<500	<500	<500	<500	<500	<500	<200	<500	<500	<500	<500	<200	<500
	16-Mar-01	53000	3700	<250	<250	<250	<250	<250	<250	<100	<250	<250	<250	<250	<100	<250
	27-Jun-01	31000	1700	<250	<250	<250	<250	<250	<250	<100	<250	<250	<250	<250	<100	<250
	20-Sep-01	28000	1500	<120	<120	<120	<120	<120	<120	<50	<120	<120	<120	<120	<50	<120
MW-14IR	18-Dec-01	16000	860	<100	<100	<100	<100	<100	<100	<40	<100	<100	<100	<100	<40	<100
(duplicate)	18-Dec-01	14000	800	<100	<100	<100	<100	<100	<100	<40	<100	<100	<100	<100	<40	<100
MW-14IR	27-Mar-02	11000	560	<120	<120	<120	<120	<120	<120	<50	<120	<120	<120	<120	<50	<120
	6-Jun-02	11000	560	<120	<120	<120	<120	<120	<120	<50	<120	<120	<120	<120	<50	<120
	5-Sep-02	7900	440	<50	<50	<50	<50	<50	<50	<20	<50	<50	<50	<50	<20	<50
	11-Dec-02	5680	298	<50	<50	<50	<50	<50	<50	<20	<50	<50	<50	<50	<20	<50
	20-Mar-03	5000	270	1.3	0.78	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50	<0.50	<0.50	6.2	<0.25	<0.50
	12-Jun-03	3000	170	<50	<50	<50	<50	<50	<50	<25	<50	<50	<50	<50	<25	<50
	22-Sep-03	3100	150	<25	<25	<25	<25	<25	<12	<12	<25	<25	<25	<25	<12	<25
	18-Dec-03	2300	100	<25	<25	<25	<25	<25	<25	<10	<25	<25	<25	<25	<10	<25
	17-Mar-04	2500	100	<25	<25	<25	<25	<25	<25	<10	<25	<25	<25	<25	<10	<25
	21-Jun-04	610	43	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
	8-Sep-04	780	52	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
	28-Dec-04	1300	56	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
MW-14IR	15-Mar-05	1200	54	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
MW-14I	12-Mar-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**87000**
	18-Dec-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55.7 L**	<0.5	**5**	<0.5	**62854.7**
MW-14I	18-Dec-96	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**55.3 L**	<0.5	<0.5	<0.5	**63493.7**
MW-14IR	11-Mar-00	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	<2500	**5900 L**	<2500	<2500	<2500	**212900**
	17-May-00	<500	<500	<500	<500	<500	<500	<500	<500	<500	**10000 L**	<500	<500	<500	**173000**
MW-14IR	14-Sep-00	<500	<500	<500	<500	<500	<500	<500	<500	<500	**680 L**	<500	<500	<500	**92180**
MW-14IR	28-Dec-00	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	**106500**
	16-Mar-01	<250	<250	<250	<250	<250	<250	<250	<250	<250	**1900 L**	<250	<250	<250	**58600**
	27-Jun-01	<250	<250	<250	<250	<250	<250	<100	<100	<250	**1500 L**	<250	<250	<250	**34200**
	20-Sep-01	<120	<120	<120	<120	<120	<120	<50	<50	<120	<120	<120	<120	<120	**29500**
MW-14IR	18-Dec-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<100	**16860**
(duplicate)	18-Dec-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<100	**14800**
MW-14IR	27-Mar-02	<120	<120	<120	<120	<120	**160**	<120	<120	<120	**500 L**	<120	<120	<120	**12220**
	6-Jun-02	<120	<120	<120	<120	<120	<120	<120	<120	<120	**1100 L**	<120	<120	<120	**12660**
	5-Sep-02	<50	<50	<50	<50	<50	<50	<20	<20	<50	**330 L**	<50	<50	<50	**8670**
	11-Dec-02	<50	<50	<50	<50	<50	**54**	<20	<20	<50	<50	<50	<50	<50	**6032**
	20-Mar-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	**1.3**	<1.0	<0.50	**0.78**	<0.50	**5280.36**
	12-Jun-03	<25	<25	<25	<25	<50	<25	<25	<25	<25	<100	<50	<25	<25	**3170**
	22-Sep-03	<12	<12	<12	<12	<25	<12	<12	<12	<12	<50	<25	<12	<12	**3250**
	18-Dec-03	<10	<10	<12	<10	<25	<12	<10	<10	<12	<50	<25	<10	<10	**2400**
	17-Mar-04	<10	<10	<12	<10	<25	<12	<10	<10	<12	<50	<25	<10	<10	**2600**
	21-Jun-04	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**653**
	8-Sep-04	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**832**
	28-Dec-04	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**1356**
MW-14IR	15-Mar-05	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**1254**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-14IR	29-Jun-05	1500	57	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<3.2	<8.0
	20-Sep-05	2200	88	<16	<16	<16	<16	<16	<6.4	<6.4	<16	<16	<16	<16	<6.4	<16
	29-Dec-05	2200	92	<16	<16	<16	<16	<16	<6.4	<6.4	<16	<16	<16	<16	<6.4	<16
MW-14IR	16-May-06	1100	35	<16	<16	<16	<16	<16	<6.4	<6.4	<16	<16	<16	<16	<6.4	<16
	21-Nov-06	1300	38	<16	<16	<16	<16	<16	<6.4	<6.4	<16	<16	<16	<16	<6.4	<16
	22-May-07	1100	28	<12	<12	<12	<12	<12	<5.0	<5.0	<12	<12	<12	<16	<5.0	<12
	4-Dec-07	1200	26	<10	<10	<10	<10	<10	<4.0	<4.0	<10	<10	<10	<10	<4.0	<10
	29-May-08	1100	25	<12	<12	<12	<12	<12	<5.0	<5.0	<12	<12	<12	<12	<12	<12
	25-Nov-08	980	31	<10	<10	<10	<10	<10	<4.0	<4.0	<10	<10	<10	<10	<10	<10
	19-May-09	870	21	<10	<10	<10	<10	<10	<4.0	<4.0	<10	<10	<10	<10	<10	<10
	18-Nov-09	850	14	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	8.2	130	<8.0	<8.0	<8.0	<8.0
	13-May-10	730	11	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-14IR	16-Nov-10	880	12	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12-May-11	740	11	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	9-Nov-11	720	12	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	10-May-12	810	11	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	1.2	<0.11	<0.068
	12-Dec-12	830	15	<0.50	<0.40	<0.62	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	1.6	<0.22	<0.14
	5-Jun-13	420	6.3	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	0.59	<0.11	<0.068
	12-Nov-13	570	9.9	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	1.1	<0.11	<0.068
	13-May-14	400	6.1	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	0.68	<0.11	<0.068
	7-Nov-14	560	7.2	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	1.0	<0.11	<0.068
	14-May-15	510	9.4	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	1.0	<0.11	<0.068
	12-Nov-15	530	7.0	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	18-May-16	450	6.5	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	0.85	<0.15	<0.22
MW-14IR	28-Nov-16	620	8.1	<0.70	<0.76	<0.78	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-14IR	29-Jun-05	<3.2	<3.2	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**1557**
	20-Sep-05	<6.4	<6.4	<8.0	<6.4	<16	<8.0	<6.4	<6.4	<8.0	<32	<16	<6.4	<6.4	**2288**
	29-Dec-05	<6.4	<6.4	<8.0	<6.4	<16	<8.0	<6.4	<6.4	<8.0	<32	<16	<6.4	<6.4	**2292**
MW-14IR	16-May-06	<6.4	<6.4	<8.0	<6.4	<16	<8.0	<6.4	<6.4	<8.0	<32	<16	<6.4	<6.4	**1135**
	21-Nov-06	<6.4	<6.4	<8.0	<6.4	<16	<8.0	<6.4	<6.4	<8.0	<32	<16	<6.4	<6.4	**1338**
	22-May-07	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<6.4	<5.0	**1128**
	4-Dec-07	<4.0	<4.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<10	**1226**
	29-May-08	<12	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**1125**
	25-Nov-08	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**1011**
	19-May-09	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**891**
	18-Nov-09	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**1002.2**
	13-May-10	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**741**
MW-14IR	16-Nov-10	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**892**
	12-May-11	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**751**
	9-Nov-11	<2.0	<3.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**732**
	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**822.2**
	12-Dec-12	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**846.6**
	5-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**426.89**
	12-Nov-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**581**
	13-May-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**406.78**
	7-Nov-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**568.2**
	14-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**520.4**
	12-Nov-15	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.46	<0.37	**537**
	18-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**457.35**
MW-14IR	28-Nov-16	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	<3.3	<0.79	<0.80	<0.74	**628.1**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
	17-May-17	500	5.7	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	0.89	<0.15	<0.22
MW-14IR	15-Nov-17	620	7.2	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	1.1	<0.15	<0.22
MW-15D	20-Apr-99	1100	3900	<39	<28	<25	<20	<73	<46	<31	<110	<110	<38	<63	<39	<110
	10-Mar-00	1500	7200	<40	<40	<40	<40	<40	<40	<16	<40	<40	<40	<40	<16	<40
MW-15D	16-May-00	2200	11000	<62	<62	<62	<62	<62	<62	<62	<62	<62	<62	<62	<62	<62
	15-Sep-00	2600	14000	<50	<50	<50	<50	<50	<50	<20	<50	<50	<50	<50	<20	<50
	15-Mar-01	2900	14000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
MW-15D	26-Jun-01	2200	13000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
(duplicate)	26-Jun-01	2100	13000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
MW-15D	19-Sep-01	2800	14000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
	28-Mar-02	2000	11000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
MW-15D	6-Jun-02	7500	17000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
MW-15D	5-Sep-02	2300	14000	<100	<100	<100	<100	<100	<100	<40	<100	<100	<100	<100	<40	<100
	17-Dec-02	2000	12000	<62	<62	<62	<62	<62	<62	<25	<62	<62	<62	<62	<25	<62
	21-Mar-03	2500	11000	<50	<50	<50	<50	<50	<50	<25	<50	<50	<50	<50	<25	<50
	12-Jun-03	2000	10000	<100	<100	<100	<100	<100	<100	<50	<100	<100	<100	<100	<50	<100
MW-15D	23-Sep-03	2500	12000	150	<50	<50	<50	<50	<25	<25	<50	<50	<50	<50	<25	<50
	18-Dec-03	2700	13000	<80	<80	<80	<80	<80	<32	<32	<80	<80	<80	<80	<32	<80
	18-Mar-04	2400	13000	<120	<120	<120	<120	<120	<50	<50	<120	<120	<120	<120	<50	<120
	22-Jun-04	2400	12000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
	8-Sep-04	2200	12000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
MW-15D	28-Dec-04	2600	11000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
(duplicate)	28-Dec-04	2500	11000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
MW-15D	16-Mar-05	2200	13000	<80	<80	<80	<80	<80	<32	<32	<80	<80	<80	<80	<32	<80
(duplicate)	16-Mar-05	2300	13000	<80	<80	<80	<80	<80	<32	<32	<80	<80	<80	<80	<32	<80

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
	17-May-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**506.59**
MW-14IR	15-Nov-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**628.3**
MW-15D	20-Apr-99	<15	<15	<15	<15	<15	<15	<15	<15	<15	<87	<15	<15	<15	**5000**
	10-Mar-00	<40	<40	<40	<40	<40	<40	<40	<40	<40	**0.49 L**	<40	<40	<40	**8700.49**
MW-15D	16-May-00	<62	<62	<62	<62	<62	<62	<62	<62	<62	**1200 L**	<62	<62	<62	**14400**
	15-Sep-00	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	**16600**
	15-Mar-01	<62	<62	<62	<62	<62	<62	<62	<62	<62	**470 L**	<62	<62	<62	**17370**
MW-15D	26-Jun-01	<62	<62	<62	<62	<62	<62	<25	<25	<62	**330 L**	<62	<62	<62	**15530**
(duplicate)	26-Jun-01	<62	<62	<62	<62	<62	<62	<25	<25	<62	**340 L**	<62	<62	<62	**15440**
MW-15D	19-Sep-01	<62	<62	<62	<62	<62	<62	<25	<25	<62	<62	<62	<62	<62	**16800**
	28-Mar-02	<62	<62	<62	<62	<62	<62	<25	<25	<62	<62	<62	<62	<62	**13000**
MW-15D	6-Jun-02	<62	<62	<62	<62	<62	<62	<25	<25	<62	**510 L**	<62	<62	<62	**25010**
MW-15D	5-Sep-02	<100	<100	<100	<100	<100	<100	<40	<40	<100	**610 L**	<100	<100	<100	**16910**
	17-Dec-02	<62	<62	<62	<62	<62	<62	<25	<25	<62	<62	<62	<62	<62	**14000**
	21-Mar-03	<25	<25	<25	<25	<50	<25	<25	<25	<25	<100	<50	<25	<25	**13500**
	12-Jun-03	<50	<50	<50	<50	<100	<50	<50	<50	<50	<200	<100	<50	<50	**12000**
MW-15D	23-Sep-03	<25	<25	<25	<25	<50	<25	<25	<25	<25	<100	<50	<25	<25	**14650**
	18-Dec-03	<32	<32	<40	<32	<80	<40	<32	<32	<40	<160	<80	<32	<32	**15700**
	18-Mar-04	<50	<50	<62	<50	<120	<62	<50	<50	<62	<250	<120	<50	<50	**15400**
	22-Jun-04	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	**14400**
	8-Sep-04	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	**14200**
MW-15D	28-Dec-04	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	**13600**
(duplicate)	28-Dec-04	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	**13500**
MW-15D	16-Mar-05	<32	<32	<40	<32	<80	<40	<32	<32	<40	<160	<80	<32	<32	**15200**
(duplicate)	16-Mar-05	<32	<32	<40	<32	<80	<40	<32	<32	<40	<160	<80	<32	<32	**15300**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

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WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-15D	30-Jun-05	1100	5200	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
	20-Sep-05	2000	12000	<50	<50	<50	<50	<50	<20	<20	<50	<50	<50	<50	<20	<50
(duplicate)	20-Sep-05	1900	11000	<50	<50	<50	<50	<50	<20	<20	<50	<50	<50	<50	<20	<50
MW-15D	29-Dec-05	2200	15000	<80	<80	<80	<80	<80	<32	<32	<80	<80	<80	<80	<32	<80
MW-15D	17-May-06	1900	15000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
(duplicate)	17-May-06	2400	18000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
MW-15D	21-Nov-06	1700	16000	<120	<120	<120	<120	<120	<50	<50	<120	<120	<120	<120	<50	<120
(duplicate)	21-Nov-06	1800	17000	<120	<120	<120	<120	<120	<50	<50	<120	<120	<120	<120	<50	<120
MW-15D	23-May-07	990	11000	<100	<100	<100	<100	<100	<40	<40	<100	<100	<100	<100	<40	<100
MW-15D	5-Dec-07	810	8400	<80	<80	<80	<80	<80	<32	<32	<80	<80	<80	<80	<32	<80
(duplicate)	5-Dec-07	800	8400	<80	<80	<80	<80	<80	<32	<32	<80	<80	<80	<80	<32	<80
MW-15D	30-May-08	990	8400	<50	<50	<50	<50	<50	<20	<20	<50	<50	<50	<50	<50	<50
(duplicate)	30-May-08	710	7900	<50	<50	<50	<50	<50	<20	<20	<50	<50	<50	<50	<50	<50
MW-15D	25-Nov-08	1600	12000	<50	<50	<50	<50	<50	<20	<20	<50	<50	<50	<50	<50	<50
	20-May-09	820	4800	<20	<20	<20	<20	<20	<8.0	<8.0	<20	<20	<20	<20	<20	<20
	17-Nov-09	1100	6100	<50	<50	<50	<50	<50	<20	<20	<50	<50	<50	<50	<50	<50
	13-May-10	690	3300	<25	<25	<25	<25	<25	<10	<10	<40	<25	<25	<25	<25	<25
MW-15D	16-Nov-10	540	1200	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
(duplicate)	16-Nov-10	460	880	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
MW-15D	12-May-11	500	1800	<8.0	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
(duplicate)	12-May-11	390	2200	29	<8.0	<8.0	<8.0	<8.0	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
MW-15D	10-Nov-11	650	2900	<10	<10	<10	<10	<10	<4.0	<4.0	<16	<10	<10	<10	<10	<10
(duplicate)	10-Nov-11	670	3000	<10	<10	<10	<10	<10	<4.0	<4.0	<16	<10	<10	<10	<10	<10
MW-15D	10-May-12	460	660	1.8	<0.20	1.6	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	0.67	<0.11	<0.068
(duplicate)	10-May-12	460	710	1.9	<10	1.8	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	0.72	<0.11	<0.068

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

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WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-15D	30-Jun-05	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	6300
	20-Sep-05	<20	<20	<25	<20	<50	<25	<20	<20	<20	<100	<50	<20	<20	14000
(duplicate)	20-Sep-05	<20	<20	<25	<20	<50	<25	<20	<20	<20	<100	<50	<20	<20	12900
MW-15D	29-Dec-05	<32	<32	<40	<32	<80	<40	<32	<32	<40	<160	<80	<32	<32	17200
MW-15D	17-May-06	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	16900
(duplicate)	17-May-06	<40	<40	<50	<40	<100	<50	<40	<40	<50	<200	<100	<40	<40	20400
MW-15D	21-Nov-06	<50	<50	<62	<50	<120	<62	<50	<50	<62	<250	<120	<50	<50	17700
(duplicate)	21-Nov-06	<50	<50	<62	<50	<120	<62	<50	<50	<62	<250	<120	<50	<50	18800
MW-15D	23-May-07	<40	<40	<50	<40	<100	<50	<50	<40	<50	<200	<100	<40	<40	11990
MW-15D	5-Dec-07	<32	<32	<40	<32	<80	<40	<40	<32	<32	<160	<80	<32	<32	9210
(duplicate)	5-Dec-07	<32	<32	<40	<32	<80	<40	<40	<32	<32	<160	<80	<32	<32	9200
MW-15D	30-May-08	<20	<50	<25	<20	<50	<25	<20	<20	<25	<100	<50	<20	<20	9390
(duplicate)	30-May-08	<20	<50	<25	<20	<50	<25	<20	<20	<25	<100	<50	<20	<20	8610
MW-15D	25-Nov-08	<20	<30	<25	<20	<50	<25	<20	<20	<20	<100	<50	<20	<20	13600
	20-May-09	<8.0	<12	<10	<8.0	<20	<10	<8.0	<8.0	<10	<40	<20	<8.0	<8.0	5620
	17-Nov-09	<20	<30	<25	<20	<50	<25	<20	<20	<25	<100	<50	<20	<20	7200
	13-May-10	<10	<15	<13	<10	<25	<13	<10	<10	<13	<50	<25	<10	<10	3990
MW-15D	16-Nov-10	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	1740
(duplicate)	16-Nov-10	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	1340
MW-15D	12-May-11	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	2300
(duplicate)	12-May-11	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	2619
MW-15D	10-Nov-11	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	3550
(duplicate)	10-Nov-11	<4.0	<6.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	3670
MW-15D	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	1124.07
(duplicate)	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	1174.42

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-15D	29-Nov-12	350	1400	2.7	<0.40	3.6	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
(duplicate)	29-Nov-12	340	1300	2.1	<0.40	3.6	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
MW-15D	4-Jun-13	360	1400	2.8	1.2	2.6	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
(duplicate)	4-Jun-13	320	930	1.5	0.99	1.9	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
MW-15D	11-Nov-13	500	1200	2.8	<1.0	4.4	<1.4	<0.95	<0.50	<0.37	<1.3	<1.7	<0.65	<0.85	<0.55	<0.34
(duplicate)	11-Nov-13	500	1300	2.6	<1.0	4.3	<1.4	<0.95	<0.50	<0.37	<1.3	<1.7	<0.65	<0.85	<0.55	<0.34
MW-15D	13-May-14	380	510	2.0	<0.40	1.4	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
(duplicate)	13-May-14	370	500	1.9	<0.40	1.5	<0.56	<0.38	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
MW-15D	6-Nov-14	960	2700	5.8	<1.0	8.6	<1.4	<0.95	<0.50	<0.37	<1.3	<1.7	<0.65	<0.85	<0.55	<0.34
(duplicate)	6-Nov-14	990	2700	6.6	<1.0	8.6	<1.4	<0.95	<0.50	<0.37	<1.3	<1.7	<0.65	<0.85	<0.55	<0.34
MW-15D	13-May-15	390	450	2.6	<0.20	1.7	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	0.76	<0.11	<0.068
(duplicate)	13-May-15	390	420	2.6	<0.20	1.6	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	0.87	<0.11	<0.068
MW-15D	11-Nov-15	370	400	2.6	0.83	1.2	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	0.63	<0.15	<0.22
(duplicate)	11-Nov-15	330	350	2.4	0.67	1.2	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
MW-15D	17-May-16	390	500	3.0	<0.38	1.4	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	0.61	<0.15	<0.22
(duplicate)	17-May-16	400	490	2.1	<0.38	1.3	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	0.58	<0.15	<0.22
MW-15D	29-Nov-16	500	460	2.8	<0.76	<0.78	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
(duplicate)	29-Nov-16	440	410	2.9	<0.76	<0.78	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
MW-15D	18-May-17	230	1100	3.1	<1.9	2.7	<2.0	<2.1	<1.0	<0.73	<1.9	<1.5	<0.92	<1.9	<0.76	<1.1
(duplicate)	18-May-17	280	1100	3.2	<1.9	2.9	<2.0	<2.1	<1.0	<0.73	<1.9	<1.5	<0.92	<1.9	<0.76	<1.1
MW-15D	16-Nov-17	200	1100	2.5	<0.76	2.2	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
(duplicate)	16-Nov-17	210	1200	2.1	<0.76	2.2	<0.78	<0.82	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
MW-16D	20-Apr-99	<0.49	0.37	<0.39	<0.28	<0.73	<0.20	<0.25	<0.46	<0.31	<1.1	<1.1	<0.38	<0.63	0.56	<1.1
	7-Mar-00	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
MW-16D	16-May-00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
MW-15D	29-Nov-12	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**1756.3**
(duplicate)	29-Nov-12	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**1645.7**
MW-15D	4-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**1766.6**
(duplicate)	4-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**1254.39**
MW-15D	11-Nov-13	<1.0	<0.90	<0.75	<0.70	<0.65	<1.2	<0.70	<0.90	<1.4	<3.4	<1.2	<1.2	<0.85	**1707.2**
(duplicate)	11-Nov-13	<1.0	<0.90	<0.75	<0.70	<0.65	<1.2	<0.70	<0.90	<1.4	<3.4	<1.2	<1.2	<0.85	**1806.9**
MW-15D	13-May-14	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**893.4**
(duplicate)	13-May-14	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**873.4**
MW-15D	6-Nov-14	<1.0	<0.90	<0.75	<0.70	<0.65	<0.80	<0.70	<0.90	<1.4	<3.4	<1.2	<1.2	<0.85	**3674.4**
(duplicate)	6-Nov-14	<1.0	<0.90	<0.75	<0.70	<0.65	<0.80	<0.70	<0.90	<1.4	<3.4	<1.2	<1.2	<0.85	**3705.2**
MW-15D	13-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**845.06**
(duplicate)	13-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**815.07**
MW-15D	11-Nov-15	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.46	<0.37	**775.26**
(duplicate)	11-Nov-15	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.46	<0.37	**684.27**
MW-15D	17-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**895.01**
(duplicate)	17-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**893.98**
MW-15D	29-Nov-16	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	<3.3	<0.79	<0.80	<0.74	**962.8**
(duplicate)	29-Nov-16	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	**15 L**	<0.79	<0.80	<0.74	**867.9**
MW-15D	18-May-17	<1.9	<1.6	<2.0	<1.9	<2.1	<1.7	<1.8	<1.3	<2.3	<8.2	<2.0	<2.0	<1.9	**1335.8**
(duplicate)	18-May-17	<1.9	<1.6	<2.0	<1.9	<2.1	<1.7	<1.8	<1.3	<2.3	<8.2	<2.0	<2.0	<1.9	**1386.1**
MW-15D	16-Nov-17	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.92	<3.3	<0.79	<0.80	<0.74	**1304.7**
(duplicate)	16-Nov-17	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.92	<3.3	<0.79	<0.80	<0.74	**1414.3**
MW-16D	20-Apr-99	ND	ND	ND	ND	ND	ND	ND	ND	<0.15	<0.87	ND	ND	ND	**0.93**
	7-Mar-00	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	0
MW-16D	16-May-00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**9.3 L**	<0.50	<0.50	<0.50	**9.3**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
MW-16D	15-Sep-00	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.50	<0.50	<0.50	<0.25	**0.16 B**	<0.50
	26-Jun-01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	**0.16 B**	<0.25
	19-Sep-01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
	18-Dec-01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
	27-Mar-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
	6-Jun-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
MW-16D	6-Sep-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
	11-Dec-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25	<0.25	<0.25	<0.25	<0.10	<0.25
	20-Mar-03	<0.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
	12-Jun-03	<0.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
	22-Sep-03	<0.25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.25	<0.25	<0.50	<0.50	<0.50	<0.50	<0.25	<0.50
	18-Dec-03	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
MW-16D	17-Mar-04	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	21-Jun-04	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	8-Sep-04	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	28-Dec-04	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	15-Mar-05	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	29-Jun-05	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	20-Sep-05	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	29-Dec-05	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	17-May-06	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	21-Nov-06	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	22-May-07	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.20	<0.50
	30-May-08	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-16D	24-Nov-08	**4.7**	**1.3**	<0.50	**0.75**	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-16D	15-Sep-00	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**0.12**	<0.10	<0.25	<0.25	<0.25	<0.25	<0.25	**0.28**
	26-Jun-01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	<0.25	<0.25	<0.25	<0.25	**0.16**
	19-Sep-01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	<0.25	<0.25	<0.25	<0.25	**0**
	18-Dec-01	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	**3.1 L**	<0.25	<0.25	<0.25	**3.1**
	27-Mar-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	<0.25	<0.25	<0.25	<0.25	**0**
	6-Jun-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	<0.25	<0.25	<0.25	<0.25	**0**
MW-16D	6-Sep-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	<0.25	<0.25	<0.25	<0.25	**0**
	11-Dec-02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.10	<0.10	<0.25	**0.58 L**	<0.25	<0.25	<0.25	**0.58**
	20-Mar-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.25	**0**
	12-Jun-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.25	**0**
	22-Sep-03	<0.25	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<0.25	<0.25	<1.0	<0.50	<0.25	<0.25	**0**
	18-Dec-03	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
MW-16D	17-Mar-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	21-Jun-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	8-Sep-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	**1.6 L**	<0.50	<0.20	<0.20	**1.6**
	28-Dec-04	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	15-Mar-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	29-Jun-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	20-Sep-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	**1.1** L	<0.50	<0.20	<0.20	**1.1**
	29-Dec-05	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	17-May-06	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	21-Nov-06	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	22-May-07	<0.20	<0.20	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	30-May-08	<0.20	<0.50	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
MW-16D	24-Nov-08	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**6.75**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	**ES**	**5**	**70**	**100**	**200**	**7**	**5**	**850**	**0.2**	**5**	**5**		**700**	**5**	**800**	**2000**
NR 140	**PAL**	**0.5**	**7**	**20**	**40**	**0.7**	**0.5**	**85**	**0.02**	**0.5**	**0.5**		**140**	**0.5**	**160**	**400**
MW-16D	20-May-09	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	17-Nov-09	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
	12-May-10	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	15-Nov-10	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	12-May-11	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
	10-Nov-11	<0.20	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20	<0.80	<0.50	<0.50	<0.50	<0.50	<0.50
MW-16D	10-May-12	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	29-Nov-12	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	4-Jun-13	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	11-Nov-13	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-May-14	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
MW-16D	6-Nov-14	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	13-May-15	<0.19	<0.12	<0.25	<0.20	<0.31	<0.28	<0.19	<0.10	<0.074	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	11-Nov-15	<0.16	<0.41	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	17-May-16	<0.16	<0.41	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	29-Nov-16	<0.16	<0.41	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
	18-May-17	<0.16	<0.41	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
MW-16D	16-Nov-17	<0.16	<0.41	<0.35	<0.38	<0.39	<0.39	<0.41	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22
MW-17D	20-Apr-99	**430**	**230**	<7.8	**560**	**120**	<4.0	**6.8**	<9.2	<4.0	<22	<22	<7.6	<13	<7.8	<22
	7-Mar-00	**370**	**160**	**3.9**	**560**	**130**	**1.3**	**7.4**	**0.3**	**0.19**	<0.25	<0.25	<0.25	**0.38**	**0.37**	<0.25
	16-May-00	**350**	**160**	<5.0	**540**	**150**	<5.0	**7**	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
MW-17D	15-Sep-00	**230**	**140**	<2.5	**340**	**73**	<2.5	**4.9**	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	15-Mar-01	**370**	**220**	<2.5	**540**	**130**	<2.5	**7.8**	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
	26-Jun-01	**340**	**250**	<2.5	**430**	**110**	<2.5	**8.4**	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
MW-17D	19-Sep-01	**410**	**330**	<2.5	**490**	**120**	<2.5	**8.6**	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	ES	6	30	--	--	--	100	480*	480*	5	5	60	0.2	0.6	--
NR 140	PAL	0.6	3	--	--	--	10	96*	96*	0.5	0.5	12	0.02	0.06	--
MW-16D	20-May-09	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	17-Nov-09	<0.20	<0.30	<0.25	<0.20	<0.50	2.4	0.33	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**2.73**
	12-May-10	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	15-Nov-10	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	12-May-11	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
	10-Nov-11	<0.20	<0.30	<0.25	<0.20	<0.50	<0.25	<0.20	<0.20	<0.25	<1.0	<0.50	<0.20	<0.20	**0**
MW-16D	10-May-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	29-Nov-12	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	4-Jun-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	11-Nov-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	12-May-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
MW-16D	6-Nov-14	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	13-May-15	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	<0.28	<0.68	<0.24	<0.23	<0.17	**0**
	11-Nov-15	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.46	<0.37	**0**
	17-May-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**0**
	29-Nov-16	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.35	<1.6	<0.39	<0.40	<0.37	**0**
	18-May-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**0**
MW-16D	16-Nov-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**0**
MW-17D	20-Apr-99	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<17	<3.0	<3.0	<3.0	**1346.8**
	7-Mar-00	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	**1.7**	**0.66 L**	<0.25	<0.25	<0.25	**1236.2**
	16-May-00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**79 L**	<5.0	<5.0	<5.0	**1286**
MW-17D	15-Sep-00	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	**787.9**
	15-Mar-01	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**18 L**	<2.5	<2.5	<2.5	**1285.8**
	26-Jun-01	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**13 L**	<2.5	<2.5	<2.5	**1151.4**
MW-17D	19-Sep-01	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	<2.5	<2.5	<2.5	<2.5	**1358.6**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
	19-Dec-01	500	440	<100	550	<100	<100	<100	<100	<40	<100	<100	<100	<100	<40	<100
MW-17D	27-Mar-02	450	420	3.1	390	99	<2.5	7.6	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
(duplicate)	27-Mar-02	420	400	<2.5	370	94	<2.5	7.3	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
MW-17D	6-Jun-02	560	560	<2.5	390	98	<2.5	7.3	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
(duplicate)	6-Jun-02	580	590	<2.5	400	97	<2.5	7.9	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
MW-17D	6-Sep-02	760	820	3.5	460	110	<2.5	10	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
(duplicate)	6-Sep-02	800	780	<2.5	420	100	<2.5	10	<2.5	<1.0	<2.5	<2.5	<2.5	<2.5	<1.0	<2.5
MW-17D	11-Dec-02	900	880	<4.0	450	120	<4.0	11	<4.0	<1.6	<4.0	<4.0	<4.0	<4.0	<1.6	<4.0
	20-Mar-03	1400	1000	<12	460	110	<12	<12	<12	<6.2	<12	<12	<12	<12	<6.2	<12
MW-17D	12-Jun-03	1200	970	<10	430	110	<10	13	<10	<5.0	<10	<10	<10	<10	<5.0	<10
MW-17D	22-Sep-03	1200	870	<12	400	100	<12	13	<6.2	<6.2	<12	<12	<12	<12	<6.2	<12
(duplicate)	22-Sep-03	1200	890	<12	410	110	<12	12	<6.2	<6.2	<12	<12	<12	<12	<6.2	<12
MW-17D	18-Dec-03	1400	1000	<12	460	120	<12	16	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
	17-Mar-04	1500	1100	<12	480	120	<12	17	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
(duplicate)	17-Mar-04	1600	1100	<12	500	130	<12	17	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
MW-17D	22-Jun-04	1500	1000	<20	470	130	<20	<20	<8.0	<8.0	<20	<20	<20	<20	<8.0	<20
MW-17D	8-Sep-04	1400	960	<10	490	120	<10	18	<4.0	<4.0	<10	<10	<10	<10	<4.0	<10
MW-17D	28-Dec-04	1200	800	<12	390	110	<12	<12	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
	16-Mar-05	1100	790	<12	400	110	<12	<12	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
MW-17D	30-Jun-05	1000	640	<12	330	87	<12	<12	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
(duplicate)	30-Jun-05	960	620	<12	310	82	<12	<12	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
MW-17D	20-Sep-05	1300	770	<10	420	120	<10	17	<4.0	<4.0	<10	<10	<10	<10	<4.0	<10
	29-Dec-05	1400	840	<12	460	130	<12	19	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
(duplicate)	29-Dec-05	1400	820	<12	460	130	<12	18	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
MW-17D	17-May-06	1200	630	<12	360	100	<12	15	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
	19-Dec-01	<100	<100	<100	<100	<100	<100	<40	<40	<100	**170 L**	<100	<100	<100	**1660**
MW-17D	27-Mar-02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**8.1 L**	<2.5	<2.5	<2.5	**1377.8**
(duplicate)	27-Mar-02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**8.0 L**	<2.5	<2.5	<2.5	**1299.3**
MW-17D	6-Jun-02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**20 L**	<2.5	<2.5	<2.5	**1635.3**
(duplicate)	6-Jun-02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**21 L**	<2.5	<2.5	<2.5	**1695.9**
MW-17D	6-Sep-02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**16 L**	<2.5	<2.5	<2.5	**2179.5**
(duplicate)	6-Sep-02	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<1.0	<1.0	<2.5	**15 L**	<2.5	<2.5	<2.5	**2125**
MW-17D	11-Dec-02	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<1.6	<1.6	<4.0	<4.0	<4.0	<4.0	<4.0	**2361**
	20-Mar-03	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<25	<12	<6.2	<6.2	**2970**
MW-17D	12-Jun-03	<5.0	<5.0	<5.0	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<20	<10	<5.0	<5.0	**2723**
MW-17D	22-Sep-03	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<25	<12	<6.2	<6.2	**2583**
(duplicate)	22-Sep-03	<6.2	<6.2	<6.2	<6.2	<12	<6.2	<6.2	<6.2	<6.2	<25	<12	<6.2	<6.2	**2622**
MW-17D	18-Dec-03	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2996**
	17-Mar-04	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**3217**
(duplicate)	17-Mar-04	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**3347**
MW-17D	22-Jun-04	<8.0	<8.0	<10	<8.0	<20	<10	<8.0	<8.0	<10	<40	<20	<8.0	<8.0	**3100**
MW-17D	8-Sep-04	<4.0	<4.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**2988**
MW-17D	28-Dec-04	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2500**
	16-Mar-05	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2400**
MW-17D	30-Jun-05	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2057**
(duplicate)	30-Jun-05	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**1972**
MW-17D	20-Sep-05	<4.0	<4.0	<5.0	<4.0	<10	<5.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**2627**
	29-Dec-05	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2849**
(duplicate)	29-Dec-05	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2828**
MW-17D	17-May-06	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2305**

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI. 1/25/2018

WELL ID	Sample Date	Trichloroethene (ug/L)	cis-1,2-Dichloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	1,2-Dichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	Vinyl Chloride (ug/L)	Benzene (ug/L)	Carbon Tetrachloride	1,1-Dichloropropene	Ethylbenzene (ug/L)	Tetrachloroethene (ug/L)	Toluene (ug/L)	Xylenes (Total) (ug/L)
NR 140	ES	5	70	100	200	7	5	850	0.2	5	5		700	5	800	2000
NR 140	PAL	0.5	7	20	40	0.7	0.5	85	0.02	0.5	0.5		140	0.5	160	400
	21-Nov-06	1300	680	<12	390	110	<12	17	<5.0	<5.0	<12	<12	<12	<12	<5.0	<12
MW-17D	23-May-07	430	350	<5.0	170	54	<5.0	10	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
(duplicate)	23-May-07	450	370	<5.0	180	55	<5.0	11	<2.0	<2.0	<5.0	<5.0	<5.0	<5.0	<2.0	<5.0
MW-17D	5-Dec-07	640	400	<4.0	180	53	<4.0	9.1	<1.6	<1.6	<4.0	<4.0	<4.0	<4.0	<1.6	<4.0
MW-17D	30-May-08	940	550	<4.0	270	92	<4.0	14	<1.6	<1.6	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
MW-17D	24-Nov-08	1300	670	<8.0	290	110	<8.0	18	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
(duplicate)	24-Nov-08	1300	690	<8.0	290	110	<8.0	19	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
MW-17D	20-May-09	1000	430	<8.0	240	95	<8.0	13	<3.2	<3.2	<8.0	<8.0	<8.0	<8.0	<8.0	<8.0
	17-Nov-09	1300	560	<10	310	110	<10	16	<4.0	<4.0	<10	<10	<10	<10	<10	<10
	13-May-10	1100	500	<13	240	91	<13	14	<5.0	<5.0	<20	<13	<13	<13	<13	<13
	15-Nov-10	1200	550	<5.0	240	130	<5.0	15	<2.0	<2.0	<8.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12-May-11	1200	530	<8.0	240	110	<8.0	15	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
	10-Nov-11	880	450	<8.0	190	75	<8.0	13	<3.2	<3.2	<13	<8.0	<8.0	<8.0	<8.0	<8.0
MW-17D	10-May-12	1000	550	2.7	220	90	<0.56	14	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	29-Nov-12	1100	520	3.0	220	110	<0.56	15	0.51	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	4-Jun-13	960	460	2.3	190	79	<0.56	12	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	11-Nov-13	900	470	3.1	190	84	0.59	14	<0.10	<0.071	<0.26	<0.34	<0.13	<0.17	<0.11	<0.068
	12-May-14	950	500	2.5	150	74	<0.56	14	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	6-Nov-14	1300	570	5.3	200	96	<1.4	15	<0.50	<0.37	<1.3	<1.7	<0.65	<0.85	<0.55	<0.34
	13-May-15	1200	560	3.6	190	91	<0.56	16	<0.20	<0.15	<0.52	<0.68	<0.26	<0.34	<0.22	<0.14
	11-Nov-15	700	410	2.3	130	65	<0.78	13	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
	17-May-16	930	480	3.2	140	75	<2.0	12	<1.0	<0.73	<1.9	<1.5	<0.92	<1.9	<0.76	<1.1
	29-Nov-16	890	480	2.9	130	68	<0.78	12	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
	18-May-17	860	530	3.8	140	86	<0.78	15	<0.41	<0.29	<0.77	<0.59	<0.37	<0.74	<0.30	<0.44
MW-17D	16-Nov-17	650	510	2.8	97	63	<0.39	13	<0.20	<0.15	<0.38	<0.30	<0.18	<0.37	<0.15	<0.22

Table 2. Summary of Monitor Well Sampling VOCs Analytical Results, Former Sta-Rite Facility, Deerfield, WI.

1/25/2018

WELL ID	Sample Date	Chloroform (ug/L)	Chloromethane (ug/L)	sec-Butylbenzene (ug/L)	Isopropylbenzene (ug/L)	n-propylbenzene (ug/L)	Naphthalene (ug/L)	1,2,4-trimethylbenzene (ug/L)	1,3,5-trimethylbenzene (ug/L)	1,1,2-Trichloroethane (ug/L)	Methylene Chloride (ug/L)	Methyl-t-butyl-ether (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	Bromodichloromethane (ug/L)	Total VOCs (ug/L)
NR 140	**ES**	**6**	**30**	**--**	**--**	**--**	**100**	**480***	**480***	**5**	**5**	**60**	**0.2**	**0.6**	**--**
NR 140	**PAL**	**0.6**	**3**	**--**	**--**	**--**	**10**	**96***	**96***	**0.5**	**0.5**	**12**	**0.02**	**0.06**	**--**
	21-Nov-06	<5.0	<5.0	<6.2	<5.0	<12	<6.2	<5.0	<5.0	<6.2	<25	<12	<5.0	<5.0	**2497**
MW-17D	23-May-07	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	**16 L**	<5.0	<2.0	<2.0	**1030**
(duplicate)	23-May-07	<2.0	<2.0	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	**16 L**	<5.0	<2.0	<2.0	**1082**
MW-17D	5-Dec-07	<1.6	<1.6	<2.0	<1.6	<4.0	<2.0	<1.6	<1.6	<2.0	<8.0	<4.0	<1.6	<1.6	**1282.1**
MW-17D	30-May-08	<1.6	<4.0	<2.0	<1.6	<4.0	<2.0	<1.6	<1.6	<2.0	<8.0	<4.0	<1.6	<1.6	**1866**
MW-17D	24-Nov-08	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**2388**
(duplicate)	24-Nov-08	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**2409**
MW-17D	20-May-09	<3.2	<4.8	<4.0	<3.2	<8.0	<4.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**1778**
	17-Nov-09	<4.0	<6.0	<5.0	<4.0	<10	9.0	<4.0	<4.0	<5.0	<20	<10	<4.0	<4.0	**2305**
	13-May-10	<5.0	<7.5	<6.3	<5.0	<13	<6.3	<5.0	<5.0	<6.3	<25	<13	<5.0	<5.0	**1945**
	15-Nov-10	<2.0	<30	<2.5	<2.0	<5.0	<2.5	<2.0	<2.0	<2.5	<10	<5.0	<2.0	<2.0	**2135**
	12-May-11	<3.2	<4.8	<4.0	<3.2	<8.0	<8.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**2095**
	10-Nov-11	<3.2	<4.8	<4.0	<3.2	<8.0	<8.0	<3.2	<3.2	<4.0	<16	<8.0	<3.2	<3.2	**1608**
MW-17D	10-May-12	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**1876.7**
	29-Nov-12	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**1968.51**
	4-Jun-13	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**1703.3**
	11-Nov-13	<0.20	<0.18	<0.15	<0.14	<0.13	<0.16	<0.14	<0.18	**0.93**	<0.68	<0.24	<0.23	<0.17	**1662.62**
	12-May-14	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**1690.5**
	6-Nov-14	<1.0	<0.90	<0.75	<0.70	<0.65	<0.80	<0.70	<0.90	<1.4	<3.4	<1.2	<1.2	<0.85	**2186.3**
	13-May-15	<0.40	<0.36	<0.30	<0.28	<0.26	<0.32	<0.28	<0.36	<0.56	<1.4	<0.48	<0.46	<0.34	**2060.6**
	11-Nov-15	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	<3.3	<0.79	<0.92	<0.74	**1320.3**
	17-May-16	<1.9	<1.6	<2.0	<1.9	<2.1	<1.7	<1.8	<1.3	<1.8	<8.2	<2.0	<2.0	<1.9	**1640.2**
	29-Nov-16	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.70	<3.3	<0.79	<0.80	<0.74	**1582.9**
	18-May-17	<0.74	<0.64	<0.80	<0.77	<0.83	<0.67	<0.72	<0.51	<0.92	<3.3	<0.79	<0.80	<0.74	**1634.8**
MW-17D	16-Nov-17	<0.37	<0.32	<0.40	<0.39	<0.41	<0.34	<0.36	<0.25	<0.46	<1.6	<0.39	<0.40	<0.37	**1335.8**

Notes:

* - Listed ES and PAL for total trimethylbenzenes (1,2,4- and 1,3,5- combined).
3/10/00 trip blank contained Methylene chloride (0.59 ug/l), naphthalene (0.35 ug/l), toluene (0.65 ug/l), and xylenes (0.25 ug/l)
Wells MW-14S and MW-14I were abandoned during soil excavation activities, and replaced February 2000.
Groundwater remediation system (extraction well EW-1) became operational March 20, 2000.
Sept. 2000 sampling round sample collected from MW-16D contained 0.16 ug/L toluene and 0.12 ug/L 1,2,4-trimethylbenzene.
B - Detected in associated blank sample.
L - Common laboratory solvent and contaminant.
12/18/01: MW-15D not sampled because a truck trailer was parked over the well.
12/11/02: There wasn't enough water in MW-14SR to collect a groundwater sample.
12/05/07: MW-16D was not sampled as the well was covered by a pile of snow.

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-1S	12/20/1996	9:40	7.62	14.6	5	1.1	8.5	550	6.60			860.11	852.49
	3/18/2000	11:30	9.00	14.6	5	0.9	5.5	852	6.73			860.11	851.11
MW-1I	12/18/1996	16:20	7.70	27.6	13 (dry)	3.2	8.4	600	6.28			860.15	852.45
	3/18/2000	11:40	9.47	27.5	13	2.9	7.3	741	7.14			860.15	850.68
MW-2S	12/18/1996	15:30	8.57	14.9	4	1.0	8.2	1425	6.43			859.88	851.31
	3/17/2000	10:45	9.53	14.8	5	0.9	7.8	1926	7.00			859.88	850.35
	5/17/2000	11:15	9.60									859.88	850.28
MW-5S	12/20/1996	12:20	4.94	14.7	6	1.6	10.6	725	6.63			857.40	852.46
	3/11/2000	10:10	6.65	14.5	6	1.3	7.5	953	7.00			857.40	850.75
	5/17/2000	12:25	6.56									857.40	850.84
MW-5I	12/20/1996	13:00	5.14	24.8	13	3.2	9.4	700	6.56			857.56	852.42
	3/11/2000	10:30	6.94	24.7	13	2.9	7.3	1000	7.11			857.56	850.62
	5/17/2000	12:30	6.87									857.56	850.69
MW-10S	12/20/1996	14:10	6.94	13.9	5	1.1	9.2	600	5.94			860.32	853.38
	March 2000 through December 2002				Tree roots blocking well screen.								
MW-10S	3/21/2003	11:00	12.74	14.4	0.5	0.3	6.3	1537	7.02			860.32	847.58
	6/12/2003	12:30	10.72	14.4	2	0.6	15.0	1123	6.96			860.32	849.60
	9/23/2003	8:30	12.00	14.4	1	0.4	13.2	1907	6.98			860.32	848.32
	12/19/2003	11:05	11.03	14.4	3	0.5	9.8	1505	6.41			860.32	849.29
	6/22/2004	9:50	6.46	14.4	5	1.3	14.1	1260	6.67			860.32	853.86
	9/4/2004	11:15	8.23	14.4	4	1.0	15.3	1781	6.81			860.32	852.09
	12/28/2004	11:40	9.55	13.7	2.25	0.7	8.9	825	6.92			860.32	850.77
	6/29/2005	13:30	9.36	13.7	2	0.7	13.6	1484	6.99			860.32	850.96
	9/20/2005	14:00	10.75	14.4	2	0.6	19.1	1517	6.79			860.32	849.57
	12/29/2005	10:35	11.27	13.8	1	0.4	9.3	1510	7.05			860.32	849.05
	5/16/2006	16:30	8.71	13.8	3	0.8	10.6	1640	6.95			860.32	851.61
	11/21/2006	13:30	7.48	13.8	4	1.0	12.2	3549	6.94			860.32	852.84
	5/22/2007	18:20	6.85	13.8	4	1.1	11.1	1280	6.65			860.32	853.47
MW-10S	12/4/2007	15:50	7.62	13.8	4	1.0	14.2	1140	6.88			860.32	852.70

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-10S	5/29/2008	12:40	5.93	13.8	4	1.3	13.3	1220	6.43			860.32	854.39
	11/25/2008	9:20	7.70	13.8	5	1.0	11.6	1420	6.95			860.32	852.62
	5/19/2009	14:35	5.97	13.8	5	1.3	15.0	1200	6.74			860.32	854.35
MW-10S	11/18/2009	14:15	8.05	13.8	5	0.9	10.5	1568	6.76			860.32	852.27
	5/13/2010	14:20	6.86	13.8	4 (dry)	1.1	13.0	1730	7.36			860.32	853.46
	11/16/2010	14:30	7.96	13.8	2 (dry)	0.9	13.2	1801	6.74			860.32	852.36
	5/12/2011	14:55	6.43	13.8	5.5 (dry)	1.2	12.1	1906	7.50			860.32	853.89
	11/9/2011	14:30	8.83	13.8	2 (dry)	0.8	13.8	1620	7.01			860.32	851.49
	5/10/2012	14:40	7.09	13.8	5 (dry)	1.1	12.1	1456	7.45			860.32	853.23
	12/12/2012	10:50	10.48	13.8	2	0.5	12.8	1468	7.51			860.32	849.84
	6/5/2013	11:10	6.16	13.8	5	1.2	12.4	1756	7.52			860.32	854.16
	11/12/2013	9:00	8.28	13.8	3 (dry)	0.9	12.9	1390	7.39			860.32	852.04
	5/13/2014	9:30	6.97	13.8	4 (dry)	1.1	8.4	1548	7.50			860.32	853.35
	11/6/2014	15:00	7.86	13.8	2 (dry)	1.0	12.7	1485	7.03			860.32	852.46
	5/14/2015	9:10	8.06	13.8	3 (dry)	0.9	8.8	1391	7.24			860.32	852.26
	11/11/2015	15:00	8.36	13.8	2 (dry)	0.9	14.1	1417	6.88			860.32	851.96
	5/18/2016	9:40	6.79	13.8	4 (dry)	1.1	10.3	1672	7.17			860.32	853.53
	11/28/2016	14:20	7.09	13.8	4 (dry)	1.1	13.1	1798	7.80			860.32	853.23
	5/17/2017	12:30	5.90	13.8	5 (dry)	1.3	13.6	1950	6.96			860.32	854.42
MW-10S	11/15/2017	13:20	7.49	13.8	5 (dry)	1.0	16.0	1723	6.88			860.32	852.83
MW-10I	12/20/1996	14:40	7.24	26.5	13	3.1	9.5	780	6.04			860.46	853.22
	3/18/2000	12:30	10.58	26.3	13	2.6	7.3	911	7.30			860.46	849.88
	5/17/2000	11:20	10.93	26.3	13	2.5	12.6	832	7.08			860.46	849.53
	9/15/2000	16:45	8.95	26.3	26	2.8	14.8	888	7.21			860.46	851.51
	6/26/2001	18:00	8.24	26.3	13	2.9	12.9	604	7.46			860.46	852.22
	9/20/2001	11:00	9.33	26.3	4	2.8	15.8	898	7.52			860.46	851.13
	12/18/2001	11:50	9.25	26.5	4	2.8	11.4	617	7.42			860.46	851.21
	3/27/2002	15:05	8.53	26.5	9	2.9	10.1	885	7.28			860.46	851.93
MW-10I	6/6/2002	15:20	8.04	26.3	16	3.0	15.6	658	7.65			860.46	852.42

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-10I	9/5/2002	13:15	10.70	26.5	8	2.6	11.6	873.6	7.45	0.62	247	860.46	849.76
MW-10I	12/11/2002	14:20	12.05	26.3	10	2.3	10.9	930	7.42			860.46	848.41
MW-10I	3/20/2003	14:30	12.83	26.3	7	2.2	13.9	969	7.29			860.46	847.63
(duplicate)	3/20/2003	14:35	12.83	26.3	7	2.2	14.0	968	7.26			860.46	847.63
MW-10I	6/12/2003	12:10	11.30	26.3	7.5	2.4	11.4	966	7.12			860.46	849.16
	9/23/2003	8:15	12.32	26.3	7	2.3	13.8	926	7.17			860.46	848.14
	6/22/2004	12:55	7.26	26.3	10	3.1	15.7	1022	7.46			860.46	853.20
	9/8/2004	11:45	8.66	26.3	9	2.9	12.1	881	7.16			860.46	851.80
	12/28/2004	13:12	9.97	26.4	9	2.7	10.2	1054	7.21			860.46	850.49
	6/29/2005	13:00	9.70	26.4	11	2.7	12.9	1062	7.01			860.46	850.76
MW-10I	9/20/2005	14:10	11.10	26.3	8	2.5	13.3	1062	7.22			860.46	849.36
	12/29/2005	10:45	11.51	26.3	11	2.4	10.3	1118	7.32			860.46	848.95
	5/16/2006	16:15	8.90	26.3	15	2.8	11.4	1123	7.85			860.46	851.56
	11/21/2006	13:40	7.88	26.3	15	3.0	11.5	1155	7.50			860.46	852.58
	5/22/2007	18:50	7.39	26.3	15	3.1	11.5	550	7.25			860.46	853.07
	12/4/2007	15:20	7.90	26.3	20	3.0	13.8	530	7.17			860.46	852.56
	5/29/2008	13:00	6.22	26.3	20	3.3	13.0	1330	6.88			860.46	854.24
	11/25/2008	10:05	8.10	26.3	10	3.0	13.2	1054	6.99			860.46	852.36
	5/19/2009	14:50	6.57	26.3	20	3.2	14.6	690	7.18			860.46	853.89
	11/18/2009	14:30	8.44	26.3	12	2.9	11.0	568	7.14			860.46	852.02
	5/13/2010	14:35	6.94	26.3	15	3.2	12.6	1180	7.97			860.46	853.52
	11/16/2010	14:20	8.23	26.3	15	2.9	12.9	1139	6.86			860.46	852.23
	5/12/2011	14:45	6.40	26.3	15	3.2	14.2	1205	7.90			860.46	854.06
	11/9/2011	15:30	8.67	26.3	15	2.9	11.1	1230	7.28			860.46	851.79
	5/10/2012	15:30	6.94	26.3	20	3.2	11.8	1214	7.88			860.46	853.52
	12/12/2012	11:50	10.57	26.3	10	2.6	12.7	1226	7.62			860.46	849.89
	6/5/2013	11:40	6.58	26.3	15	3.2	12.0	1113	7.76			860.46	853.88
	11/12/2013	8:17	8.17	26.3	15	3.0	13.1	1102	7.70			860.46	852.29
MW-10I	5/13/2014	10:10	6.91	26.3	15	3.2	10.0	1084	7.74			860.46	853.55

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-10I	11/6/2014	15:20	7.92	26.3	15	3.0	12.5	1050	7.35			860.46	852.54
MW-10I	5/14/2015	9:30	8.23	26.3	15	2.9	9.8	1032	7.38			860.46	852.23
MW-10I	11/11/2015	15:20	8.26	26.3	15	2.9	12.6	1039	7.05			860.46	852.20
	5/18/2016	9:50	6.96	26.3	15	3.2	10.5	1112	7.43			860.46	853.50
	11/28/2016	13:50	7.08	26.3	15	3.1	11.4	1149	7.25			860.46	853.38
	5/17/2017	12:40	6.10	26.3	15	3.3	12.5	1118	7.35			860.46	854.36
MW-10I	11/15/2017	13:40	7.74	26.3	15	3.0	14.5	1152	7.17			860.46	852.72
MW-14S	12/20/1996	16:00	10.44	14.8	3 (dry)	0.7	8.9	500	5.87			864.06	853.62
MW-14SR	3/18/2000	14:30	14.05	15.1	0.5 (dry)	0.2	7.8	2042	7.05			864.82	850.77
	5/17/2000	10:40	13.77	15.1	0.5 (dry)	0.2	13.9	2482	6.81			864.82	851.05
	9/14/2000	8:45	11.33	15.1	3 (dry)	0.6	13.1	2199	6.98			864.82	853.49
	12/28/2000	10:20	13.87	15.1	1 (dry)	0.2	6.3	2499	7.06			864.82	850.95
	3/16/2001	11:33	10.74	15.1	2.5 (dry)	0.7	8.9	2154	6.99	8.73	351	864.82	853.32
	6/26/2001	16:35	10.46	15.1	4 (dry)	0.8	19.8	1872	7.10			864.82	854.36
	9/20/2001	11:40	10.84	15.1	2 (dry)	0.7	16.8	1400	7.42			864.82	853.98
	12/18/2001	10:45	12.07	15.0	2(dry)	0.6	12.5	1105	6.99			864.82	852.75
MW-14SR	3/27/2002	13:50	10.46	15.0	3	0.7	9.4	2060	7.01			864.82	854.36
	6/6/2002	10:55	10.33	15.1	4	0.8	15.2	683	7.70			864.82	854.49
	9/5/2002	14:15	14.15	15.0	0.5	0.1	17.3	820.1	7.54			864.82	850.67
	12/11/2002		14.80	15.1	Not enough water in well to purge & sample.							864.82	850.02
	3/20/2003		14.82	15.1	Not enough water in well to purge & sample.							864.82	850.00
	6/12/2003	10:30	14.45	15.1	0.5	Not enough water in well to purge & sample.						864.82	850.37
	12/18/2003	15:30	11.23	15.1	3	0.6	10.3	654	6.92			864.82	853.59
	6/21/2004	12:15	8.56	15.1	6	1.1	14.8	1050	6.79			864.82	856.26
	9/8/2004	13:15	12.01	15.1	2	0.5	15.3	623	7.22			864.82	852.81
	12/28/2004	9:58	13.44	15.1	1	0.3	9.6	680	7.31			864.82	851.38
	6/29/2005	12:30	13.45	15.1	1	0.3	12.3	621	6.99			864.82	851.37
	9/20/2005		14.71	15.1	Not enough water in well to purge & sample.							864.82	850.11
MW-14SR	12/29/2005		14.73	15.0	Not enough water in well to purge & sample.							864.82	850.09

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-14SR	5/16/2006	16:45	10.43	15.1	6	0.8	16.0	385	7.58			864.82	854.39
	11/21/2006	13:10	10.19	15.1	8	0.8	13.0	764	7.63			864.82	854.63
	5/22/2007	18:30	9.86	15.1	10	0.9	10.5	290	7.34			864.82	854.96
	12/4/2007	14:50	11.52	15.1	3	0.6	13.3	520	7.23			864.82	853.30
MW-14SR	5/29/2008	12:10	9.48	15.1	8	0.9	12.6	950	7.08			864.82	855.34
	11/25/2008	11:15	11.15	15.1	4	0.6	9.2	324	7.38			864.82	853.67
	5/19/2009	14:10	9.22	15.1	4	1.0	14.3	740	7.39			864.82	855.60
	11/18/2009	13:45	10.91	15.1	4	0.7	9.4	590	7.28			864.82	853.91
	5/13/2010	13:50	9.85	15.1	3.5	0.9	12.0	380	8.58			864.82	854.97
	11/16/2010	14:05	11.34	15.1	2 (dry)	0.6	13.0	561	7.16			864.82	853.48
	5/12/2011	14:10	9.30	15.1	4.5	0.9	13.2	683	8.00			864.82	855.52
	11/9/2011	13:10	10.24	15.1	5	0.8	12.5	398	7.59			864.82	854.58
	5/10/2012	16:20	9.10	15.1	5	1.0	10.5	627	7.83			864.82	855.72
	12/12/2012	9:40	14.29	15.1	0.5	0.1	10.9	620	7.88			864.82	850.53
	6/5/2013	13:00	9.02	15.1	6	1.0	12.1	709	7.70			864.82	855.80
MW-14SR	11/12/2013	8:20	11.12	15.1	3 (dry)	0.6	11.5	558	7.84			864.82	853.70
	5/13/2014	11:00	9.30	15.1	5	0.9	9.1	518	7.87			864.82	855.52
	11/7/2014	10:10	11.62	15.1	3 (dry)	0.6	13.5	595	7.43			864.82	853.20
	5/14/2015	10:10	10.80	15.1	3 (dry)	0.7	8.9	545	7.90			864.82	854.02
	11/12/2015	8:20	12.12	15.1	2 (dry)	0.5	13.0	560	7.03			864.82	852.70
	5/18/2016	10:50	9.96	15.1	12	0.8	9.9	525	7.57			864.82	854.86
	11/28/2016	16:00	10.53	15.1	5 (dry)	0.7	11.3	798	7.03			864.82	854.29
	5/17/2017	14:10	9.01	15.1	5	1.0	10.9	7.69	7.59			864.82	855.81
MW-14SR	11/15/2017	14:30	11.31	15.1	3 (dry)	0.6	14.9	733	7.14			864.82	853.51
MW-14I	12/20/1996	16:20	10.20	25.0	8 (dry)	2.4	8.9	600	5.88			864.06	853.86
MW-14IR	3/18/2000	15:00	14.01	24.6	9	1.7	8.7	918	7.02			864.65	850.64
	5/17/2000	11:00	14.17	24.6	9	1.7	13.5	1296	6.80			864.65	850.48
	9/14/2000	15:40	12.23	24.6	6 (dry)	2.0	17.4	2664	6.75			864.65	852.42
MW-14IR	12/28/2000	10:40	12.86	24.6	5 (dry)	1.9	6.9	2566	6.90			864.65	851.79

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-14IR	3/16/2001	11:25	13.30	24.6	5 (dry)	1.8	11.1	3422	6.70	5.11	347	864.65	851.35
	6/27/2001	11:55	11.65	24.6	4 (dry)	2.1	16.1	2819	6.93			864.65	853.00
	9/20/2001	11:35	12.75	24.6	7 (dry)	1.9	14.5	3760	6.96			864.65	851.90
	12/18/2001	10:45	12.53	26.5	7 (dry)	1.9	12.5	1744	6.91			864.65	852.12
	3/27/2002	13:45	11.98	26.5	7	2.4	10.5	2551	6.84			864.65	852.67
	6/6/2002	11:05	11.47	24.6	9	2.1	14.9	1792	7.29			864.65	853.18
MW-14IR	9/5/2002	14:20	14.16	24.6	5	1.7	13.5	2232	7.31	6.74	268	864.65	850.49
	12/11/2002	13:20	14.91	24.6	3 (dry)	1.6	11.5	1402	7.40			864.65	849.74
	3/20/2003	13:30	16.19	24.6	3.5 (dry)	1.4	12.6	1572	7.01			864.65	848.46
	6/12/2003	7:55	14.90	24.6	5	1.6	10.3	1275	7.05			864.65	849.75
	9/22/2003	16:00	15.92	24.6	5	1.4	12.7	1250	7.15			864.65	848.73
	12/18/2003	15:20	15.34	24.6	7	1.5	12.1	732	6.92			864.65	849.31
MW-14IR	6/21/2004	12:30	10.16	24.6	8	2.4	13.3	1164	7.06			864.65	854.49
	9/8/2004	14:45	12.22	24.6	6	2.0	13.2	809	6.98			864.65	852.43
	12/28/2004	10:10	13.98	24.8	4.5	1.8	10.8	1079	7.34			864.65	850.67
	6/29/2005	12:00	13.35	24.8	4	1.9	12.0	956	7.06			864.65	851.30
	9/20/2005	13:10	14.75	25.0	3	1.7	13.9	781	7.21			864.65	849.90
	12/29/2005	11:10	16.39	25.0	4	1.4	9.4	843	7.85			864.65	848.26
	5/16/2006	16:00	12.41	25.0	5	2.1	10.8	815	7.84			864.65	852.24
	11/21/2006	13:20	10.94	25.0	5	2.3	12.1	696	7.53			864.65	853.71
	5/22/2007	19:00	10.76	25.0	5	2.3	11.6	340	7.35			864.65	853.89
MW-14IR	12/4/2007	14:20	10.45	25.0	5	2.4	14.3	330	7.32			864.65	854.20
	5/29/2008	11:50	9.81	25.0	5	2.5	13.3	590	7.34			864.65	854.84
	11/25/2008	12:25	10.70	25.0	10	2.3	11.5	504	7.37			864.65	853.95
	5/19/2009	13:55	9.78	25.0	5 (dry)	2.5	14.4	390	7.39			864.65	854.87
	11/18/2009	14:00	11.80	25.0	5 (dry)	2.2	10.1	662	6.81			864.65	852.85
	5/13/2010	14:05	10.64	25.0	4.5 (dry)	2.3	12.5	660	8.42			864.65	854.01
	11/16/2010	13:50	11.09	25.0	6 (dry)	2.3	13.4	670	7.00			864.65	853.56
MW-14IR	5/12/2011	14:20	10.06	25.0	5.0 (dry)	2.4	11.8	695	8.10			864.65	854.59

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-14IR	11/9/2011	13:30	12.17	25.0	5.0 (dry)	2.1	11.8	683	7.35			864.65	852.48
	5/10/2012	16:40	10.70	25.0	5.0 (dry)	2.3	12.2	914	7.98			864.65	853.95
	12/12/2012	9:20	13.30	25.0	4.0 (dry)	1.9	10.6	619	7.70			864.65	851.35
	6/5/2013	13:20	9.90	25.0	6.0 (dry)	2.5	11.5	622	7.84			864.65	854.75
	11/12/2013	8:40	11.60	25.0	5.0 (dry)	2.2	10.0	658	7.93			864.65	853.05
	5/13/2014	11:20	10.43	25.0	5.0 (dry)	2.4	10.2	624	7.81			864.65	854.22
MW-14IR	11/7/2014	10:30	11.44	25.0	5.0 (dry)	2.2	12.8	588	7.51			864.65	853.21
	5/14/2015	10:30	11.76	25.0	5.0 (dry)	2.2	9.3	582	7.68			864.65	852.89
	11/12/2015	8:40	11.68	25.0	5.0 (dry)	2.2	13.6	584	7.10			864.65	852.97
	5/18/2016	11:00	10.43	25.0	5.0 (dry)	2.4	10.5	715	7.44			864.65	854.22
	11/28/2016	15:40	10.04	25.0	5.0 (dry)	2.4	11.2	725	7.62			864.65	854.61
	5/17/2017	14:20	9.45	25.0	5.0 (dry)	2.5	12.1	789	7.48			864.65	855.20
MW-14IR	11/15/2017	14:50	11.11	25.0	5.0 (dry)	2.3	14.5	797	7.26			864.65	853.54
MW-15D	3/10/2000	15:00	11.07	119.7	80	17.7	9.0	880	6.90			860.23	849.16
	5/16/2000	15:40	11.30	119.7	80	17.7	12.6	1048	6.94			860.23	848.93
MW-15D	5/16/2000	15:50	11.30	119.7	80	17.7	12.6	1057	6.93			860.23	848.93
MW-15D	9/14/2000	15:30	9.97	119.7	80	17.7	16.0	1131	6.74			860.23	850.26
	3/15/2001	15:10	10.31	119.7	80	17.8	10.2	1078	6.93	2.77	313	860.23	849.92
	6/26/2001	8:30	9.75	119.7	80	17.9	19.3	960	7.04			860.23	850.48
	9/19/2001	15:20	10.91	119.7	54	17.7	13.1	1119	7.25			860.23	849.32
	12/18/2001	Not sampled because well was obstructed by trailer.											
	3/28/2002	15:00	10.25	119.4	65	17.8	10.8	775				860.23	849.98
	6/6/2002	13:35	10.50	119.7	77	17.8	14.9	843	7.43			860.23	849.73
	9/5/2002	13:00	12.44	119.7	55	17.5	12.4	1151	7.19	3.03	270	860.23	847.79
	12/17/2002	15:40	13.19	119.7	75	17.4	8.0	1157	7.75			860.23	847.04
	3/21/2003	10:30	13.42	119.7	75	17.3	6.3	1174	7.39			860.23	846.81
	9/23/2003	7:45	13.44	119.7	50	17.3	12.3	1094	7.05			860.23	846.79
	12/19/2003	10:05	13.07	119.7	50	17.4	14.0	838	7.29			860.23	847.16
MW-15D	6/22/2004	13:05	9.97	119.7	60	17.9	15.5	1096	7.24			860.23	850.26

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-15D	9/8/2004	14:15	10.58	119.7	60	17.8	11.4	940	6.98			860.23	849.65
	12/28/2004	11:15	11.41	119.7	55	17.7	10.9	1129	6.97			860.23	848.82
	6/30/2005	12:20	11.39	119.7	75	17.7	12.7	1096	6.94			860.23	848.84
	9/20/2005	12:10	12.66	119.7	55	17.4	11.9	1153	6.97			860.23	847.57
	12/29/2005	13:30	12.83	119.7	40	17.4	9.4	1147	7.05			860.23	847.40
	5/17/2006	11:50	11.12	119.7	75	17.7	12.4	1135	7.17			860.23	849.11
	11/21/2006	15:40	10.03	119.7	80	17.9	10.5	1071	7.65			860.23	850.20
	5/23/2007	12:00	10.03	119.7	80	17.9	13.6	520	6.95			860.23	850.20
MW-15D	12/5/2007	11:00	9.64	119.7	70	17.9	10.9	1070	7.13			860.23	850.59
	5/30/2008	11:00	7.52	119.7	80	18.3	14.8	560	6.75			860.23	852.71
	11/25/2008	13:55	9.55	119.7	60	18.0	9.9	1282	7.17			860.23	850.68
	5/20/2009	14:55	8.34	119.7	70	18.2	17.1	740	7.08			860.23	851.89
	11/17/2009	16:45	10.33	119.7	71	17.8	8.7	1229	6.47			860.23	849.90
	5/13/2010	10:05	9.61	119.7	75	17.9	11.3	1400	7.94			860.23	850.62
	11/16/2010	14:40	9.84	119.7	75	17.9	11.9	1320	7.14			860.23	850.39
	5/12/2011	14:30	8.84	119.7	80	18.1	12.6	1519	7.70			860.23	851.39
MW-15D	11/10/2011	14:15	10.52	119.7	75	17.8	13.7	1561	7.07			860.23	849.71
	5/10/2012	14:10	10.04	119.7	80	17.9	10.5	1528	7.60			860.23	850.19
	11/29/2012	12:50	12.03	119.7	80	17.6	10.3	1427	7.64			860.23	848.20
	6/4/2013	18:30	9.30	119.7	80	18.0	13.5	1475	7.54			860.23	850.93
	11/11/2013	15:05	10.48	119.7	80	17.8	9.8	1305	7.62			860.23	849.75
	5/13/2014	8:45	10.05	119.7	80	17.9	11.6	1561	7.93			860.23	850.18
	11/6/2014	14:05	10.81	119.7	70	17.7	12.2	1555	7.30			860.23	849.42
	5/13/2015	17:15	11.04	119.7	70	17.7	12.7	1501	7.49			860.23	849.19
	11/11/2015	13:45	11.05	119.7	80	17.7	12.3	1563	6.91			860.23	849.18
	5/17/2016	15:35	9.75	119.7	80	17.9	11.9	1668	7.13			860.23	850.48
	11/29/2016	14:50	9.45	119.7	80	18.0	13.4	1742	7.19			860.23	850.78
	5/18/2017	16:25	8.57	119.7	1	18.1	11.7	1397	7.21	1.64	44	860.23	851.66
MW-15D	11/16/2017	11:30	9.89	119.7	2	17.9	11.7	1510	7.42	10.96	79	860.23	850.34

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-16D	3/7/2000	13:10	11.48	114.7	80	16.8	14.3	495	6.97			860.90	849.42
	5/16/2000	10:45	11.85	114.7	80	16.8	12.6	427.6	6.93			860.90	849.05
	9/14/2000	10:50	10.55	114.7	70	16.8	13.1	604	7.39			860.90	850.35
	6/26/2001	13:05	10.50	114.7	80	17.0	19.4	544	7.09			860.90	850.40
MW-16D	9/19/2001	11:50	11.47	114.7	50	16.8	14.2	566	7.76			860.90	849.43
	12/18/2001	12:55	11.35	114.7	50	17.0	11.1	389.6	7.33			860.90	849.55
	3/27/2002	9:55	10.91	114.0	50	16.8	10.7	568	7.15			860.90	849.99
	6/6/2002	9:40	11.36	114.7	72	16.8	14.5	448	7.78			860.90	849.54
	9/6/2002	10:20	13.38	114.7	55	16.5	12.4	542.8	7.57	10.47	221	860.90	847.52
MW-16D	12/11/2002	10:00	13.78	114.7	71	16.4	10.1	595	8.00			860.90	847.12
MW-16D	3/20/2003	11:20	13.87	114.7	75	16.4	11.9	570	7.29			860.90	847.03
	6/12/2003	8:50	13.17	114.7	50	16.5	11.6	564	7.32			860.90	847.73
	9/22/2003	11:00	13.94	114.7	50	16.4	12.0	557	6.86			860.90	846.96
	12/18/2003	10:20	13.36	114.8	50	16.5	5.1	343.4	7.39			860.90	847.54
	6/21/2004	13:40	10.46	114.8	60	17.0	13.9	579	7.33			860.90	850.44
	9/8/2004	8:45	11.12	114.8	60	16.9	11.7	503	7.09			860.90	849.78
	12/28/2004	10:20	11.87	114.7	70	16.8	11.9	549	7.18			860.90	849.03
	6/29/2005	14:40	11.99	114.7	70	16.7	13.3	550	7.33			860.90	848.91
	9/20/2005	8:30	13.08	114.7	55	16.6	11.6	571	6.53			860.90	847.82
	12/29/2005	11:35	13.24	114.7	36	16.5	12.0	610	7.25			860.90	847.66
MW-16D	5/17/2006	11:00	11.59	114.7	67	16.8	12.1	558	7.35			860.90	849.31
	11/21/2006	14:30	10.50	114.7	80	17.0	11.4	558	7.71			860.90	850.40
	5/22/2007	12:20	9.70	114.7	80	17.1	13.8	260	7.23			860.90	851.20
	5/30/2008	10:00	8.39	114.7	80	17.3	14.5	250	6.95			860.90	852.51
	11/24/2008	15:50	10.06	114.7	60	17.1	11.7	703	7.46			860.90	850.84
	5/20/2009	13:25	8.82	114.7	100	17.3	17.8	330	7.31			860.90	852.08
	11/17/2009	12:55	11.05	114.7	100	16.9	9.0	586	7.31			860.90	849.85
	5/12/2010	12:10	10.10	114.7	100	17.0	9.7	1160	7.94			860.90	850.80
MW-16D	11/15/2010	12:00	10.30	114.7	100	17.0	12.0	596	6.98			860.90	850.60

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-16D	5/12/2011	13:35	9.39	114.7	75	17.2	14.6	621	7.90			860.90	851.51
	11/10/2011	9:20	11.00	114.7	120	16.9	12.4	605	7.41			860.90	849.90
	5/10/2012	10:50	10.46	114.7	120	17.0	12.7	578	7.85			860.90	850.44
	11/29/2012	9:30	12.48	114.7	70	16.7	9.1	590	7.80			860.90	848.42
	6/4/2013	15:40	9.69	114.7	70	17.1	14.2	544	7.75			860.90	851.21
	11/11/2013	11:50	10.89	114.7	70	16.9	11.9	564	7.89			860.90	850.01
	5/12/2014	14:20	10.59	114.7	70	17.0	12.2	638	8.03			860.90	850.31
	11/6/2014	9:50	11.16	114.7	70	16.9	11.9	566	7.72			860.90	849.74
	5/13/2015	13:00	11.50	114.7	70	16.8	12.2	548	7.52			860.90	849.40
MW-16D	11/11/2015	10:30	11.54	114.7	70	16.8	12.2	553	7.13			860.90	849.36
	5/17/2016	11:30	10.17	114.7	75	17.0	12.6	605	7.41			860.90	850.73
	11/29/2016	10:00	9.95	114.7	75	17.1	12.9	604	7.55			860.90	850.95
	5/18/2017	12:15	8.90	114.7	2	17.2	11.7	554	7.23	6.44	24	860.90	852.00
MW-16D	11/16/2017	8:55	10.28	114.7	1	17.0	11.4	603	7.39	11.61	70	860.90	850.62
MW-17D	3/7/2000	16:30	10.88	114.9	80	16.9	17.2	766	7.05			860.05	849.17
	5/16/2000	13:30	11.17	114.9	80	16.9	15.9	785	7.03			860.05	848.88
	9/14/2000	13:25	10.36	114.9	70	16.9	15.7	873	7.11			860.05	849.69
	3/15/2001	12:40	11.52	114.9	70	16.8	9.6	795.3	7.11	4.50	370	860.05	848.53
	6/26/2001	15:30	10.05	114.9	80	17.1	18.8	737	7.33			860.05	850.00
	9/19/2001	11:01	11.01	114.9	50	16.9	14.4	822	7.50			860.05	849.04
	12/19/2001	11:30	10.65	114.9	50	17.0	14.3	664	7.24			860.05	849.40
	3/27/2002	12:20	10.26	115.0	52	17.1	10.8	862	7.02			860.05	849.79
	6/6/2002	13:40	11.20	114.9	73	16.9	15.0	655	7.44			860.05	848.85
MW-17D	9/6/2002	12:15	14.65	114.9	55	16.3	12.1	831.8	7.59	3.77	273	860.05	845.40
(duplicate)	9/6/2002	12:20	14.65	114.9	55	16.3	11.9	832.7	7.57	3.44	275	860.05	845.40
MW-17D	12/11/2002	12:05	13.87	114.9	50	16.5	10.5	850	7.37			860.05	846.18
	3/20/2003	13:05	13.87	114.9	75	16.5	11.9	835	7.22			860.05	846.18
	6/12/2003	10:15	12.56	114.9	55	16.7	12.1	855	6.75			860.05	847.49
MW-17D	9/22/2003	13:00	13.49	114.9	50	16.5	13.6	843	7.15			860.05	846.56

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-17D	12/18/2003	12:30	17.46	115.0	50	15.9	10.3	585	7.03			860.05	842.59
	6/22/2004	12:00	9.90	115.0	60	17.1	19.1	803	7.30			860.05	850.15
	9/8/2004	9:45	10.60	115.0	60	17.0	12.9	748	7.11			860.05	849.45
	12/28/2004	13:05	11.23	114.9	51	16.9	13.2	864	6.80			860.05	848.82
	6/30/2005	10:50	11.42	114.9	60	16.9	15.2	866	6.98			860.05	848.63
	9/20/2005	10:30	12.37	114.9	55	16.7	13.4	852	7.10			860.05	847.68
	12/29/2005	15:40	12.54	114.9	33.5	16.7	8.6	872	7.45			860.05	847.51
	5/17/2006	14:00	10.77	114.9	70	17.0	13.1	851	7.12			860.05	849.28
	11/21/2006	17:00	9.91	114.9	40	17.1	11.1	779	7.70			860.05	850.14
	5/23/2007	10:50	9.21	114.9	40	17.2	15.4	400	7.14			860.05	850.84
	12/5/2007	13:10	9.69	114.9	40	17.1	13.5	390	7.29			860.05	850.36
MW-17D	5/30/2008	12:45	8.07	114.9	40	17.4	16.5	400	7.00			860.05	851.98
MW-17D	11/24/2008	13:20	10.14	114.9	55	17.1	11.5	833	7.34			860.05	849.91
	5/19/2009	15:40	8.44	114.9	66	17.4	18.1	1040	7.19			860.05	851.61
	11/17/2009	17:00	10.37	114.9	63	17.0	9.0	858	7.08			860.05	849.68
	5/13/2010	9:50	9.45	114.9	55	17.2	11.2	1000	7.93			860.05	850.60
	11/15/2001	16:20	9.77	114.9	69	17.1	10.8	913	6.78			860.05	850.28
	5/12/2011	13:50	8.77	114.9	65	17.3	14.8	931	7.80			860.05	851.28
MW-17D	11/10/2011	12:10	10.34	114.9	70	17.0	13.6	995	7.36			860.05	849.71
	5/10/2012	13:00	9.71	114.9	70	17.1	11.8	904	7.86			860.05	850.34
	11/29/2012	11:30	11.82	114.9	60	16.8	10.8	890	7.73			860.05	848.23
	6/4/2013	17:10	9.08	114.9	55	17.2	14.1	840	7.78			860.05	850.97
	11/11/2013	13:50	10.31	114.9	55	17.0	10.2	830	7.43			860.05	849.74
MW-17D	5/12/2014	16:00	9.82	114.9	55	17.1	12.6	860	7.96			860.05	850.23
	11/6/2014	12:20	10.56	114.9	55	17.0	13.1	865	7.38			860.05	849.49
	5/13/2015	15:30	10.72	114.9	50	17.0	12.3	808	7.33			860.05	849.33
	11/11/2015	12:20	10.77	114.9	50	17.0	13.3	864	7.04			860.05	849.28
	5/17/2016	13:30	9.46	114.9	50	17.2	14.0	902	7.27			860.05	850.59
MW-17D	11/29/2016	12:30	9.25	114.9	50	17.2	12.6	953	7.56			860.05	850.80

Table 3. Monitor Well Field Sampling Results, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Sample Date	Time	Depth to Water (feet btoc)	Well Depth (feet btoc)	Purge Volume (gallons)	Casing Volume (gallons)	Temp-erature (C)	Conductivity (umhos/cm)	pH	Dissolved Oxygen (mg/L)	Eh (mV)	Top of Casing Elev. (feet MSL)	Ground-water Elev. (feet MSL)
MW-17D	5/18/2017	14:10	8.28	114.9	1	17.4	11.8	847	7.21	1.44	46	860.05	851.77
MW-17D	11/16/2017	10:15	11.72	114.9	1	16.8	11.7	901	7.37	7.82	79	860.05	848.33
EW-1	5/16/2000	14:30	11.11									860.08	848.97

Notes: Wells MW-14S and MW-14I were abandoned during soil excavation activities, and replaced February 2000.
Groundwater remediation system (extraction well EW-1) became operational March 20, 2000.
feet btoc = feet below top of casing
feet MSL = feet above mean sea level

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-1S	5.4	854.71	14.9	845.21	12/20/1996	860.11	7.62	852.49
					3/18/2000	860.11	9.00	851.11
					5/17/2000	860.11	8.75	851.36
					9/6/2002	860.11	11.16	848.95
					6/12/2003	860.11	10.03	850.08
					6/21/2004	860.11	6.80	853.31
					9/19/2005	860.11	10.59	849.52
					5/16/2006	860.11	7.36	852.75
					5/22/2007	860.11	7.29	852.82
					5/20/2009	860.11	6.83	853.28
					5/13/2010	860.11	6.67	853.44
					11/16/2010	860.11	7.70	852.41
					5/12/2011	860.11	6.84	853.27
					5/10/2012	860.11	6.85	853.26
					6/10/2013	860.11	7.18	852.93
					5/13/2014	860.11	6.27	853.84
					5/14/2015	860.11	7.76	852.35
					5/17/2016	860.11	7.16	852.95
MW-1S					5/18/2017	860.11	6.73	853.38
MW-1I	22.6	837.55	27.6	832.55	12/18/1996	860.15	7.70	852.45
					3/18/2000	860.15	9.47	850.68
					5/17/2000	860.15	9.33	850.82
					9/6/2002	860.15	10.43	849.72
					6/12/2003	860.15	10.46	849.69
					6/21/2004	860.15	7.00	853.15
					9/19/2005	860.15	10.64	849.51
					5/16/2006	860.15	7.97	852.18
					5/22/2007	860.15	7.25	852.90
					5/20/2009	860.15	6.93	853.22
					5/13/2010	860.15	6.90	853.25
					11/16/2010	860.15	7.81	852.34
MW-1I					5/12/2011	860.15	6.92	853.23
MW-2S	4.9	854.98	14.9	844.98	12/18/1996	859.88	8.57	851.31
					3/17/2000	859.86	9.53	850.33
					5/17/2000	859.86	9.60	850.26
					9/6/2002	859.86	11.12	848.74
					6/12/2003	859.86	10.25	849.61
					6/21/2004	859.86	7.98	851.88
					9/19/2005	859.86	10.52	849.34
					5/16/2006	859.86	8.78	851.08
					5/22/2007	859.86	8.07	851.79
					5/20/2009	859.86	7.81	852.05
					5/13/2009	859.86	7.90	851.96
MW-2S					11/15/2010	859.86	8.86	851.00

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-2S					5/12/2011	859.86	7.91	851.95
					5/10/2012	859.86	8.25	851.61
					6/10/2013	859.86	8.07	851.79
					5/13/2014	859.86	8.11	851.75
					5/14/2015	859.86	8.74	851.12
					5/17/2016	859.86	8.20	851.66
MW-2S					5/18/2017	859.86	7.67	852.19
MW-3S	4.3	854.43	14.3	844.43	12/16/1996	858.73	9.90	848.83
MW-3S					9/6/2002	858.73	13.13	845.60
					6/12/2003	858.73	11.08	847.65
					6/21/2004	858.73	7.78	850.95
					9/19/2005	858.73	10.19	848.54
					5/16/2006	858.73	9.45	849.28
					5/22/2007	858.73	8.21	850.52
					5/20/2009	858.73	7.35	851.38
					5/13/2010	858.73	7.82	850.91
					11/15/2010	858.73	7.68	851.05
					5/12/2011	858.73	7.59	851.14
					5/10/2012	858.73	Dry	
					6/10/2013	858.73	7.65	851.08
					5/13/2014	858.73	7.65	851.08
					5/14/2015	858.73	7.48	851.25
MW-3S					5/18/2017	858.73	6.84	851.89
MW-4S	4.7	851.64	14.7	841.64	12/18/1996	856.34	8.08	848.26
MW-4S					5/22/2007	Unable to locate.		
MW-5S	4.7	852.70	14.7	842.70	12/20/1996	857.40	4.94	852.46
					3/11/2000	857.40	6.65	850.75
					5/17/2000	857.40	6.56	850.84
					9/6/2002	857.40	8.49	848.91
	4.7	852.70	14.7	842.70	6/12/2003	857.40	8.10	849.30
					9/19/2005	857.40	8.80	848.60
					5/16/2006	857.40	5.38	852.02
					5/22/2007	857.40	4.51	852.89
MW-5S					5/20/2009	Unable to locate.		
MW-5I	19.8	837.76	24.8	832.76	12/20/1996	857.56	5.14	852.42
					3/11/2000	857.56	6.94	850.62
					5/17/2000	857.56	6.87	850.69
					9/6/2002	857.56	8.40	849.16
					6/12/2003	857.56	8.77	848.79
					5/16/2006	857.56	5.59	851.97
					5/22/2007	857.56	4.62	852.94
MW-5I					5/20/2009	Unable to locate.		
MW-6S	5.1	855.88	15.1	845.88	12/20/1996	860.98	9.88	851.10
MW-6S					9/6/2002	860.98	11.34	849.64

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-6S					6/12/2003	860.98	10.85	850.13
					6/21/2004	860.98	8.20	852.78
MW-6S					9/19/2005	860.98	11.31	849.67
					5/16/2006	860.98	9.65	851.33
					5/22/2007	860.98	8.29	852.69
MW-6S					5/20/2009	860.98	7.80	853.18
					5/13/2010	860.98	8.49	852.49
					11/15/2010	860.98	9.35	851.63
					5/12/2011	860.98	8.36	852.62
MW-6S					5/10/2012	Well is damaged. No cover; jagged PVC casing above ground surface.		
MW-7S	4.2	855.83	14.2	845.83	12/16/1996	860.03	6.09	853.94
					9/6/2002	860.03	8.55	851.48
MW-7S					6/12/2003	860.03	9.06	850.97
MW-7S					6/21/2004	860.03	5.85	854.18
					9/19/2005	860.03	9.29	850.74
					5/16/2006	860.03	5.65	854.38
					5/22/2007	860.03	6.18	853.85
					5/13/2010	860.03	3.97	856.06
					11/15/2010	860.03	7.01	853.02
					5/12/2011	860.03	4.93	855.10
					5/10/2012	860.03	6.09	853.94
					6/10/2013	860.03	6.17	853.86
					5/13/2014	860.03	4.15	855.88
					5/14/2015	860.03	6.94	853.09
					5/17/2016	860.03	6.34	853.69
MW-7S					5/18/2017	860.03	5.08	854.95
MW-8S	3.5	849.05	13.5	839.05	12/18/1996	852.55	5.74	846.81
					9/6/2002	852.55	7.67	844.88
					6/12/2003	852.55	4.79	847.76
					6/21/2004	852.55	3.58	848.97
					5/16/2006	852.55	3.03	849.52
					5/22/2007	852.55	3.38	849.17
					5/20/2009	Unable to locate.		
					5/10/2012	852.55	3.09	849.46
					6/10/2013	852.55	3.14	849.41
					5/13/2014	852.55	2.68	849.87
					5/14/2015	852.55	3.59	848.96
					5/17/2016	852.55	3.07	849.48
MW-8S					5/18/2017	852.55	2.61	849.94
MW-9S	5.4	845.30	15.4	835.30	12/18/1996	850.70	2.56	848.14
MW-9S					5/22/2007	Unable to locate.		
MW-10S	3.9	856.42	13.9	846.42	12/20/1996	860.32	6.94	853.38
MW-10S					3/21/2003	860.32	12.74	847.58

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-10S					6/12/2003	860.32	10.72	849.60
					9/23/2003	860.32	12.00	848.32
					12/19/2003	860.32	11.03	849.29
					6/22/2004	860.32	6.46	853.86
MW-10S	3.9	856.42	13.9	846.42	9/8/2004	860.32	8.23	852.09
					12/28/2004	860.32	9.55	850.77
					9/19/2005	860.32	10.75	849.57
					12/29/2005	860.32	11.27	849.05
					5/16/2006	860.32	8.71	851.61
					5/22/2007	860.32	6.85	853.47
					12/4/2007	860.32	7.62	852.70
					5/29/2008	860.32	5.93	854.39
					11/25/2008	860.32	7.70	852.62
					5/20/2009	860.32	5.96	854.36
MW-10S					5/13/2010	860.32	6.86	853.46
					11/15/2010	860.32	7.96	852.36
					5/12/2011	860.32	6.43	853.89
					5/10/2012	860.32	7.09	853.23
					6/10/2013	860.32	6.38	853.94
					5/13/2014	860.32	6.97	853.35
					5/14/2015	860.32	8.06	852.26
					5/17/2016	860.32	6.79	853.53
					11/28/2016	860.32	7.09	853.23
					5/17/2017	860.32	5.90	854.42
MW-10S					11/15/2017	860.32	7.49	852.83
MW-10I	21.5	838.96	26.5	833.96	12/20/1996	860.46	7.24	853.22
					3/18/2000	860.46	10.58	849.88
					6/26/2001	860.46	8.24	852.22
					9/20/2001	860.46	9.33	851.13
					12/18/2001	860.46	9.25	851.21
					3/27/2002	860.46	8.53	851.93
MW-10I					6/6/2002	860.46	8.04	852.42
					9/5/2002	860.46	10.70	849.76
					12/11/2002	860.46	12.05	848.41
					3/20/2003	860.46	12.83	847.63
					6/12/2003	860.46	11.30	849.16
					9/23/2003	860.46	12.32	848.14
					12/19/2003	860.46	12.10	848.36
					6/22/2004	860.46	7.26	853.20
					9/8/2004	860.46	8.66	851.80
					12/28/2004	860.46	9.97	850.49
					9/19/2005	860.46	11.10	849.36
					12/29/2005	860.46	11.51	848.95
MW-10I					5/16/2006	860.46	8.90	851.56

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-10I					5/22/2007	860.46	7.39	853.07
					12/4/2007	860.46	7.90	852.56
					5/29/2008	860.46	6.22	854.24
					11/25/2008	860.46	8.10	852.36
					5/20/2009	860.46	6.56	853.90
					5/13/2010	860.46	6.94	853.52
MW-10I					11/15/2010	860.46	8.23	852.23
					5/12/2011	860.46	6.40	854.06
					5/10/2012	860.46	6.94	853.52
					6/10/2013	860.46	6.76	853.70
					5/13/2014	860.46	6.91	853.55
					5/14/2015	860.46	8.23	852.23
					5/17/2016	860.46	6.96	853.50
					11/28/2016	860.46	7.08	853.38
					5/17/2017	860.46	6.10	854.36
MW-10I					11/15/2017	860.46	7.74	852.72
MW-11S	4.9	856.36	14.9	846.36	12/16/1996	861.26	7.38	853.88
MW-11S					9/6/2002	861.26	9.22	852.04
					6/12/2003	861.26	10.45	850.81
					6/21/2004	861.26	5.60	855.66
					9/19/2005	861.26	10.25	851.01
					5/16/2006	861.26	7.88	853.38
					5/22/2007	861.26	5.32	855.94
MW-11S					5/13/2010	861.26	5.85	855.41
					11/15/2010	861.26	7.56	853.70
					5/12/2011	861.26	5.22	856.04
					5/10/2012	861.26	6.24	855.02
					6/10/2013	861.26	5.59	855.67
					5/13/2014	861.26	5.79	855.47
					5/14/2015	861.26	7.66	853.60
					5/17/2016	861.26	6.46	854.80
MW-11S					5/18/2017	861.26	5.38	855.88
MW-12S	12.7	857.92	22.7	847.92	12/16/1996	870.62	17.12	853.50
					6/12/2003	870.62	21.43	849.19
					6/22/2004	870.62	16.40	854.22
MW-12S					9/19/2005	870.62	20.67	849.95
					5/16/2006	870.62	18.62	852.00
					5/22/2007	870.62	16.67	853.95
					5/20/2009	870.62	15.76	854.86
					5/13/2010	870.62	16.74	853.88
					11/15/2010	870.62	17.73	852.89
					5/12/2011	870.62	16.01	854.61
MW-12S					5/10/2012	870.62	16.63	853.99

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-12S					6/10/2013	870.62	15.97	854.65
					5/13/2014	870.62	16.52	854.10
					5/14/2015	870.62	17.81	852.81
					5/17/2016	870.62	16.48	854.14
MW-12S					5/18/2017	870.62	15.30	855.32
MW-13S	2.8	861.30	12.8	851.30	5/17/2000	864.10	10.13	853.97
					5/17/2000	864.10	10.93	853.17
					9/14/2000	864.10	8.95	855.15
					9/6/2002	864.10	11.89	852.21
MW-13S					6/21/2004	864.10	7.94	856.16
					9/19/2005	864.10	11.79	852.31
					5/16/2006	864.10	11.72	852.38
MW-13S					5/22/2007	864.10	9.31	854.79
					5/20/2009	864.10	8.52	855.58
					5/13/2010	864.10	9.11	854.99
					11/15/2010	864.10	10.45	853.65
					5/12/2011	864.10	8.54	855.56
					5/10/2012	864.10	9.29	854.81
					6/10/2013	864.10	8.47	855.63
					5/13/2014	864.10	9.36	854.74
					5/14/2015	864.10	10.81	853.29
					5/17/2016	864.10	9.35	854.75
MW-13S					5/18/2017	864.10	8.29	855.81
MW-14S	4.7	859.36	14.7	849.36	12/20/1996	864.06	10.44	853.62
MW-14SR	5.1	859.72	15.1	849.72	3/18/2000	864.82	14.05	850.77
					5/17/2000	864.82	13.77	851.05
					9/14/2000	864.82	11.33	852.73
					6/26/2001	864.82	10.46	854.36
					12/18/2001	864.82	12.07	852.75
					3/27/2002	864.82	10.46	854.36
					6/6/2002	864.82	10.33	854.49
					9/5/2002	864.82	14.15	850.67
					12/11/2002	864.82	14.80	850.02
					3/20/2003	864.82	14.82	850.00
MW-14SR					6/12/2003	864.82	14.45	850.37
					9/22/2003	864.82	Dry	
					12/18/2003	864.82	11.23	853.59
					6/21/2004	864.82	8.56	856.26
					9/8/2004	864.82	12.01	852.81
					12/28/2004	864.82	13.44	851.38
					9/19/2005	864.82	14.71	850.11
					12/29/2005	864.82	14.73	850.09
					5/16/2006	864.82	10.43	854.39
MW-14SR					5/22/2007	864.82	9.86	854.96

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-14SR					12/4/2007	864.82	11.52	853.30
					5/29/2008	864.82	9.48	855.34
					11/25/2008	864.82	11.15	853.67
					5/20/2009	864.82	9.26	855.56
					5/13/2010	864.82	9.85	854.97
					11/15/2010	864.82	11.34	853.48
					5/12/2011	864.82	9.30	855.52
					5/10/2012	864.82	9.10	855.72
					6/10/2013	864.82	9.27	855.55
					5/13/2014	864.82	9.30	855.52
MW-14SR					5/14/2015	864.82	10.80	854.02
					5/17/2016	864.82	9.96	854.86
					11/28/2016	864.82	10.53	854.29
					5/17/2017	864.82	9.01	855.81
MW-14SR					11/15/2017	864.82	11.31	853.51
MW-14I	20.0	844.44	25.0	839.44	12/20/1996	864.44	10.20	854.24
MW-14IR	19.6	845.05	24.6	840.05	3/18/2000	864.65	14.01	850.64
					5/17/2000	864.65	14.17	850.48
					9/14/2000	864.65	12.23	852.42
					6/27/2001	864.65	11.65	853.00
					12/18/2001	864.65	12.53	852.12
					3/27/2002	864.65	11.98	852.67
					6/6/2002	864.65	11.47	853.18
					9/5/2002	864.65	14.16	850.49
					12/11/2002	864.65	14.91	849.74
					3/20/2003	864.65	16.19	848.46
					6/12/2003	864.65	14.90	849.75
MW-14IR					9/22/2003	864.65	15.92	848.73
					12/18/2003	864.65	15.34	849.31
					6/21/2004	864.65	10.16	854.49
					9/8/2004	864.65	12.22	852.43
					12/28/2004	864.65	13.98	850.67
					9/19/2005	864.65	14.75	849.90
					12/29/2005	864.65	16.39	848.26
					5/16/2006	864.65	12.41	852.24
					5/22/2007	864.65	10.76	853.89
					12/4/2007	864.65	10.45	854.20
					5/29/2008	864.65	9.81	854.84
					11/25/2008	864.65	10.70	853.95
MW-14IR					5/20/2009	864.65	10.00	854.65
					5/13/2010	864.65	10.64	854.01
					11/15/2010	864.65	11.09	853.56
					5/12/2011	864.65	10.06	854.59
MW-14IR					5/10/2012	864.65	10.70	853.95

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-14IR					6/10/2013	864.65	10.11	854.54
					5/13/2014	864.65	10.43	854.22
					5/14/2015	864.65	11.76	852.89
					5/17/2016	864.65	10.43	854.22
					11/28/2016	864.65	10.04	854.61
					5/17/2017	864.65	9.45	855.20
MW-14IR					11/15/2017	864.65	11.11	853.54
MW-15D	109.7	750.53	119.7	740.53	3/10/2000	860.23	11.07	849.16
					5/16/2000	860.23	11.30	848.93
					5/16/2000	860.23	11.30	848.93
					9/14/2000	860.23	9.97	850.26
					6/26/2001	860.23	9.75	850.48
MW-15D					3/28/2002	860.23	10.25	849.98
					6/6/2002	860.23	10.50	849.73
MW-15D					9/5/2002	860.23	12.44	847.79
MW-15D					12/17/2002	860.23	13.19	847.04
					3/21/2003	860.23	13.42	846.81
					6/12/2003	860.23	12.72	847.51
					9/23/2003	860.23	13.44	846.79
MW-15D					12/19/2003	860.23	13.07	847.16
					6/22/2004	860.23	9.97	850.26
					9/8/2004	860.23	10.58	849.65
					12/28/2004	860.23	11.41	848.82
					9/20/2005	860.23	12.66	847.57
					12/29/2005	860.23	12.83	847.40
					5/16/2006	860.23	11.12	849.11
					5/22/2007	860.23	9.20	851.03
					12/5/2007	860.23	9.64	850.59
					5/30/2008	860.23	7.52	852.71
					11/25/2008	860.23	9.55	850.68
MW-15D					5/20/2009	860.23	8.34	851.89
					11/17/2009	860.23	10.33	849.90
					5/13/2010	860.23	9.28	850.95
					11/15/2010	860.23	9.84	850.39
					5/12/2011	860.23	8.84	851.39
					5/10/2012	860.23	10.04	850.19
					6/10/2013	860.23	9.46	850.77
					5/13/2014	860.23	10.11	850.12
					5/13/2015	860.23	11.04	849.19
					5/17/2016	860.23	9.75	850.48
					11/29/2016	860.23	9.45	850.78
					5/18/2017	860.23	8.57	851.66
MW-15D					11/16/2017	860.23	9.89	850.34
MW-16D	104.7	756.20	114.7	746.20	3/7/2000	860.90	11.48	849.42

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
					5/16/2000	860.90	11.85	849.05
					9/14/2000	860.90	10.55	850.35
					6/26/2001	860.90	10.50	850.40
					12/18/2001	860.90	11.35	849.55
					3/27/2002	860.90	10.91	849.99
MW-16D					6/6/2002	860.90	11.36	849.54
					9/6/2002	860.90	13.38	847.52
					12/11/2002	860.90	13.78	847.12
					3/20/2003	860.90	13.87	847.03
					6/12/2003	860.90	13.17	847.73
					9/22/2003	860.90	13.94	846.96
					12/18/2003	860.90	13.36	847.54
					6/21/2004	860.90	10.46	850.44
MW-16D					9/8/2004	860.90	11.12	849.78
					12/28/2004	860.90	11.87	849.03
					9/19/2005	860.90	13.08	847.82
					12/29/2005	860.90	13.24	847.66
MW-16D					5/16/2006	860.90	11.59	849.31
					5/22/2007	860.90	9.70	851.20
					5/30/2008	860.90	8.39	852.51
					11/24/2008	860.90	10.06	850.84
					5/20/2009	860.90	8.82	852.08
MW-16D					11/17/2009	860.90	11.05	849.85
					5/13/2010	860.90	9.71	851.19
					11/15/2010	860.90	10.30	850.60
					5/12/2011	860.90	9.39	851.51
					5/10/2012	860.90	10.46	850.44
					6/10/2013	860.90	9.80	851.10
					5/13/2014	860.90	10.49	850.41
					5/13/2015	860.90	11.50	849.40
					5/17/2016	860.90	10.17	850.73
					11/29/2016	860.90	9.95	850.95
					5/18/2017	860.90	8.90	852.00
MW-16D					11/16/2017	860.90	10.43	850.47
MW-17D	104.9	755.15	114.9	745.15	3/7/2000	860.05	10.88	849.17
					5/16/2000	860.05	11.17	848.88
					9/14/2000	860.05	10.36	849.69
					6/26/2001	860.05	10.05	850.00
					12/19/2001	860.05	10.65	849.40
MW-17D					3/27/2002	860.05	10.26	849.79
					6/6/2002	860.05	11.20	848.85
					9/6/2002	860.05	14.65	845.40
					12/11/2002	860.05	13.87	846.18
MW-17D					3/20/2003	860.05	13.87	846.18

Table 4. Groundwater Elevation Summary Table, Former Sta-Rite Facility, Deerfield, Wisconsin

WELL ID	Top of Well Screen (feet btoc)	Top of Well Screen (feet MSL)	Bottom of Well Screen (feet btoc)	Bottom of Well Screen (feet MSL)	Sample Date	Top of Casing Elevation (feet MSL)	Depth to Water (ft. btoc)	Groundwater Elevation (feet MSL)
MW-17D					6/12/2003	860.05	12.56	847.49
					9/22/2003	860.05	13.49	846.56
					12/18/2003	860.05	17.46	842.59
					6/21/2004	860.05	9.90	850.15
					9/8/2004	860.05	10.60	849.45
					12/28/2004	860.05	11.23	848.82
					9/19/2005	860.05	12.37	847.68
					12/29/2005	860.05	12.54	847.51
MW-17D					5/16/2006	860.05	10.77	849.28
					5/22/2007	860.05	9.21	850.84
					12/5/2007	860.05	9.69	850.36
					5/30/2008	860.05	8.07	851.98
					11/24/2008	860.05	10.14	849.91
					5/20/2009	860.05	8.44	851.61
					11/17/2009	860.05	10.37	849.68
					5/13/2010	860.05	9.03	851.02
					11/15/2010	860.05	9.77	850.28
					5/12/2011	860.05	8.77	851.28
MW-17D					5/10/2012	860.05	9.71	850.34
					6/10/2013	860.05	9.14	850.91
					5/13/2014	860.05	9.66	850.39
					5/13/2015	860.05	10.72	849.33
					5/17/2016	860.05	9.46	850.59
					11/29/2016	860.05	9.25	850.80
					5/18/2017	860.05	8.29	851.76
MW-17D					11/16/2017	860.05	11.77	848.28
EW-1	14.7	845.38	114.7	745.38	5/16/2000	860.08	11.11	848.97

Notes: feet btoc = feet below top of casing feet MSL = feet above mean sea level

Wells MW-14S and MW-14I were abandoned during soil excavation activities, and replaced in February 2000 by MW-14SR and MW-14IR.

Groundwater remediation system (extraction well EW-1) became operational March 20, 2000.

SYSTEM OPERATIONAL DATA

FORMER STA-RITE DEERFIELD FACILITY GROUNDWATER REMEDIATION SYSTEM DATA SHEET

Project Number: 117-7469001

Location: 38 West Nelson Street, Deerfield, WI

Date	Time	Water Meter Readings (gallons)	Pumping Rate (gpm)	Volume of AquaMag in Yellow Tank (gallons)	Pressure Gauge Readings (psi)					Air Stripper Air-Flow Reading (scfm)	Comments
					Left Bag Filter		Right Bag Filter		Center Gauge		
					Upper Gauge	Lower Gauge	Upper Gauge	Lower Gauge			
12-27-16	14:00	3732515	21.4	35	12	12	14	12	14	157	FILLED AM TANK
1-4-2017	10:20	3,956,212	0	27	0	0	0	0	0	0	System off.
14-2017	10:27	3,956,212	0	27	0	0	0	0	0	0	Re-start
1-4-2017	10:56	3,956,837	21.6	36	11	11	14	12	14	160	
1-17-2017	13:20	4,355,515	AVG 21.1	35	12	12	14	12	14	154	FILLED AM TANK
1-31-2017	13:05	4,780,253	AVG 21	35	12	12	14	12	14	155	FILLED AM TANK.
2-21-2017	13:55	5,420,587	21	35	15	11	14	12	14	154	FILLED AM TANK.
3-14-2017	10:15	6,050,349	AVG 20.9	35	12	12	13	12	14	158	FILLED AM TANK
3-14-2017	10:20	6,050,454	21	35	TURN OFF TREATMENT SYSTEM.						
3-15-2017	13:50	6,050,454	21.2	35	14	11	14	12	14	161	RESTART SYSTEM.
3-24-17	10:04	6,324,705	21.8	28	14	11	14	12	14	154	Filled AM Tank
3-24-17	10:20	6,325,052	21.7	35	14	11	14	12	14	154	Increase Pump Stroke to 50.
4-11-17	09:35	6,889,065	AVG 21.7	35	13	12	14	12	14	154	AQUA-MAG DELIVERY
4-25-17	15:15	7,334,277	AVG 21.7	35	20	12	14	12	14	151	FILLED AQUA-MAG TANK
5-9-17	15:45	7,769,917	AVG 21	35	16	11	13	12	14	154	FILLED AQUA-MAG TANK.
5-17-17	15:15	8,012,676	0	27	0	0	0	0	0	0	TURN OFF SYSTEM FOR PURGE WATER
5-17-17	15:45	8,012,676	0	27	0	0	0	0	0	0	RESTART SYSTEM

Note: gpm = gallons per minute psi = pounds per square inch scfm = standard cubic feet per minute

5-23-17 14:55 8,188,662 20.6 35 17 10 12 12 14 151 FILLED AQUA-MAG TANK

TETRA TECH

FORMER STA-RITE DEERFIELD FACILITY GROUNDWATER REMEDIATION SYSTEM DATA SHEET

Project Number: 117-7469001

Location: 38 West Nelson Street, Deerfield, WI

Date	Time	Water Meter Readings (gallons)	Pumping Rate (gpm)	Volume of AquaMag in Yellow Tank (gallons)	Pressure Gauge Readings (psi)					Air Stripper Air-Flow Reading (scfm)	Comments
					Left Bag Filter		Right Bag Filter		Center Gauge		
					Upper Gauge	Lower Gauge	Upper Gauge	Lower Gauge			
5-23-17	14:55	8,188,662	AVG. 20.6	35	17	10	12	12	14	151	FILLED AQUA-MAG TANK
6-6-17	15:30	8,600,302	AVG 20.3	35	18	10	12	12	14	147	FILLED AQUA-MAG TANK
6-22-17	11:25	9,066,400	20.8	35	14	10	12	12	14	147	FILLED AQUA-MAG TANK
7-7-17	09:40	9,497,456	AVG. 19.5	35	10	12	12	12	14	147	FILLED AQUA-MAG TANK
7-20-17	12:10	9,762,500	METER NOT WORKING	35	14	10	12	12	14	147	FILLED AQUA-MAG TANK. METER NOT WORKING
8-8-17	15:40	9,770,593	METER NOT WORKING	35	18	10	12	12	14	147	FILLED AQUA-MAG TANK. METER NOT WORKING.
8-22-17	10:20	9,772,335	METER NOT WORKING	35	10	10	12	12	14	147	FILLED AQUA-MAG TANK. INCREASE STROKE & SPEED 53HZ
8-23-17	10:00	9,772,335	METER NOT WORKING.	REPLACE WATER METER, AIR FILTER AND FILTER BAGS							TURN OFF SYSTEM.
8-23-17	17:05	0,000,000	NEW METER	RESTART SYSTEM							
8-23-17	17:30	0,000,492	AVG. 19.7	35	0	10	12	12	13	147	
9-5-17	14:45	0,361,717	AVG 19.3	35	12	11	12	12	13	147	COLLECT INFLUENT & EFFLUENT SAMPLE
9-11-17	11:43	0523610	0	28	0	0	0	0	0	0	OFF
9-11-17	17:25	0523610	0	28	0	0	0	0	0	0	Restart
9-11-17	17:31	0523728	19.2	28	14	10	11	11	12	147	
9-20-17	08:40	0758963	AVG. 19.1	35	9	10	12	12	12	147	FILLED AQUA-MAG TANK INCREASE STROKE & SPEED
10-3-17	15:10	1,120,074	18.8	35	12	10	11	11	12	147	FILLED AQUA-MAG TANK.
10-17-17	15:00	1,496,534	18.6	35	16	10	11	11	12	147	FILLED AQUA-MAG TANK.

Note: gpm = gallons per minute psi = pounds per square inch scfm = standard cubic feet per minute

TETRA TECH

FORMER STA-RITE DEERFIELD FACILITY GROUNDWATER REMEDIATION SYSTEM DATA SHEET

Project Number: 117-7469001

Location: 38 West Nelson Street, Deerfield, WI

Date	Time	Water Meter Readings (gallons)	Pumping Rate (gpm)	Volume of AquaMag in Yellow Tank (gallons)	Pressure Gauge Readings (psi)					Air Stripper Air-Flow Reading (scfm)	Comments
					Left Bag Filter		Right Bag Filter		Center Gauge		
					Upper Gauge	Lower Gauge	Upper Gauge	Lower Gauge			
10-17-17	15:00	1,496,534	18.6	35	16	10	11	11	12	147	FILL AQUA-MAG TANK
10-27-17	11:05	1,746,634	18.2	22	8	10	11	11	12	147	- -
10:31:17	12:13	1,852,897	18.25	35	0	10	10	11	12	154	Filled Am tank
11-15-17	15:40	TURN OFF EXTRACTION WELL PUMP PURGE WATER THROUGH AIR STRIPPER: SEMI-ANNUAL MAINTENANCE									
11-15-17	16:05	2,251,961	RESTART EXTRACTION WELL PUMP.								
11-16-17	14:25	2,275,924	AVG 17.9	35	6	10	11	11	12	154	FILL AQUA-MAG TANK
11-17-17	08:30	2,278,243	18	RESTART SYSTEM: SYSTEM DOWN 11-16-17 (PROJECTED 16:30-16:45) POWER OUTAGE							
11-27-17	17:00	2,490,844	RESTART SYSTEM: SYSTEM WENT DOWN OVER THE WEEKEND.								
11-27-17	17:05	2,490,934	18		0	10	10	10	12	154	
11-28-17	15:15	2,514,829	18	35	10	10	10	10	12	154	FILL AQUA-MAG TANK
12-15-17	09:50	2,949,645	AVG 18.3	35	8	10	11	11	12	154	REMOVED 2-GALS FROM AM TANK. NOT INJECTING
12-26-17	10:40	3,239,843	AVG 18.3	35	10	10	10	10	12	161	FILL AQUA-MAG TANK

Note: gpm = gallons per minute psi = pounds per square inch scfm = standard cubic feet per minute

TETRA TECH

LMI AA171-150SH Chemical Metering Pump Data Sheet
Sta-Rite Deerfield Remediation System

Install Date: May 18, 2006
Pump Model Number: AA171-150SH Pump Serial Number: 06042162397-1
Desired Pumping Rate of AquaMag and Water Mixture = 1 gallon per day

Water and AquaMag Mixture Ratio for Yellow 35-Gallon Polyethylene Holding Tank for a Total Pumping Rate of 1 gallon/day: 27 gallons Water; 8 gallons AquaMag.

Initial Calibrated Pump Settings to deliver 1 gallon per day: Stroke = 30; Speed = 20

To Prime Pump: While pump is running, set speed knob at 80 and stroke knob at 100. ¼ turn open the relief valve (black knob). A small amount of solution should discharge out of the return line of multi-function valve. Once this happens, ¼ turn or release the black knob on the valve. The pump is now primed.

Pumping Rate Checks and Pump Stroke and Speed Settings

Date	Volume of Water + AquaMag in Tank (gallons)	Calculated Pumping Rate (gal/day)	Stroke	Speed
12/27/16	22 gal. in tank. Add 3 gal. AM + 1 gal. H_2O.	1.0 gal/day	48	14
1/4/2017	27 gal. (System off at 7:30 on 1/3)	1.0 gal/day	48	14
1/4/2017	Add 2 gal. AM + 7 gal. H_2O ~36 gal. in tank	—	48	14
1-17-2017	ADD 2.5 AM + 8.5 GAL H_2O. 35 GAL IN TANK.	0.9	48	14
1-31-17	ADD 3.5 GAL AM + 10.5 GALS H_2O. 35 GALS IN TANK	1.0	48	14
2-21-17	ADD 4.5 AM + 14.5 GALS H_2O. 35 GALS IN TANK	0.9	48	14
3-14-17	ADD 4.5 AM + 14.5 GALS H_2O. 35 GALS IN TANK	0.9	48	14
3-24-17	Add 2 gal AM + 5 gal. Water to tank	0.7	50	14
4-11-17	ADD 3.5 GAL AM + 12.5 GALS H_2O. 35 GAL IN TANK	1.1	50	14
4-25-17	ADD 3.5 GAL AM + 10.5 GALS H_2O. 35 GALS IN TANK	1.0	50	14
5-9-17	ADD 3.5 GAL AM + 11.5 GALS H_2O. 35 GALS IN TANK	1.1	50	14
5-23-17	ADD 3.5 GAL AM + 10.5 GALS H_2O. 35 GALS IN TANK	1.0	50	14
6-6-17	ADD 3.5 GALS AM + 10.5 GALS H_2O. 35 GALS IN TANK	1.0	50	14
6-22-17	ADD 3.5 GAL AM + 11.5 GALS H_2O. 35 GALS IN TANK	0.9	50	14
7-7-17	ADD 3.5 GAL AM + 12.5 GALS H_2O. 35 GALS IN TANK.	1.1	50	14

LMI AA171-150SH Chemical Metering Pump Data Sheet
Sta-Rite Deerfield Remediation System

Install Date: May 18, 2006
Pump Model Number: AA171-150SH Pump Serial Number: 06042162397-1
Desired Pumping Rate of AquaMag and Water Mixture = 1 gallon per day

Water and AquaMag Mixture Ratio for Yellow 35-Gallon Polyethylene Holding Tank for a Total Pumping Rate of 1 gallon/day: 27 gallons Water; 8 gallons AquaMag.

Initial Calibrated Pump Settings to deliver 1 gallon per day: Stroke = 30; Speed = 20

To Prime Pump: While pump is running, set speed knob at 80 and stroke knob at 100. ¼ turn open the relief valve (black knob). A small amount of solution should discharge out of the return line of multi-function valve. Once this happens, ¼ turn or release the black knob on the valve. The pump is now primed.

Pumping Rate Checks and Pump Stroke and Speed Settings

Date	Volume of Water + AquaMag in Tank (gallons)	Calculated Pumping Rate (gal/day)	Stroke	Speed
7-7-17	ADD 3.5 GALS AM + 12.5 GALS H2O. 35 GALS IN TANK	1.1	50	14
7-20-17	ADD 3.5 GALS AM + 11.5 GALS H2O. 35 GALS IN TANK	1.2	50	14
8-8-17	ADD 4.5 GALS AM + 15.5 GALS H2O. 35 GALLONS IN TANK.	1.1	50	14
8-22-17	ADD 2.5 GALS AM + 7.5 GALS H2O. 35 GALS IN TANK	0.7	INCREASE 53	INCREASE 18
9-5-17	ADD 3.5 AM + 12.5 GALS H2O 35-GALS IN TANK.	1.2	DECREASE 51	DECREASE 15
9-20-17	ADD 4.5 AM + 15.5 GALS H2O 35 GALS IN TANK.	1.3	DECREASE 50	DECREASE 14
10-3-17	ADD 2.5 GALS AM + 8.5 GALS H2O 35 GALS IN TANK	0.8	50	INCREASE 15
10-17-17	ADD 3.5 GALS AM + 10.5 GALS H2O. 35 GALS IN TANK	1.0	50	15
10.31.17	Add 4.3 gal AM + 14.7 gal H2O 35 gal in tank	1.36	50	15
11-16-17	ADD 5 GALS AM + 18 GALS H2O. 35 GALS IN TANK.	1.4	DECREASE 45	DECREASE 10
11-28-17	ADD 2.5 GALS AM + 7.5 GALS H2O. 35 GALS IN TANK.	0.8	INCREASE 50	10
12-12-17	ADD 3.5 GAL AM + 13.5 GALS H2O. 35-GAL IN TANK.	1.5	48	10

12-27-16

13:30 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: PARTLY CLOUDY AND WINDY
HIGH OF 30°

OUTFALL AND AIR INTAKE OK.

22 GALS IN TANK. ADD 3 GALS
AMT TO 25 GALS H2O

METER READINGS:

TIME	READING	GPM
13:55	3732408	—
14:00	3732515	21.4
14:05	3732623	21.6
14:10	3732731	21.6

14:25 SITE DEPARTURE TMT

1/4/2017
Mark Mantley
Sunny, windy, 31°F.
System automatically shut down about 7:30 pm on 1/3/2017 (high air stripper sump water level + high air stripper blower vacuum alarm conditions).
Meter Readings:

Time	Gallons	GPM
10:20	3,956,212	0
10:27 = Re-Start System.		
10:51	3,956,728	21.5
10:56	3,956,837	21.8

11:05 = Leave site with system on. Mark M.

1-17-2017

12:45 ARRIVED ON SITE WITH SYSTEM OPERATING

WEATHER: CLOUDY LIGHT WINDS 35°.

AIR INTAKE AND OUTFALL OK

24 GALS IN TANK. ADD 2.5 AM AND 8.5 H2O. 35 GALS IN TANK

METER READING:

TIME	METER RDG	GPM	
13:05	4355198	—	
13:10	4355304	21.2	
13:15	4355409	21	AVG.
13:20	4355515	21.2	21.1

13:40 SITE DEPARTURE TMT

1-31-17

11:55 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER PARTLY CLOUDY WITH LIGHT WINDS HIGH OF 34°.

AIR INTAKE AND OUTFALL OK

21 GALS IN FROM PREV TANK. ADD 3.5 GALS AM & 10.5 GALS H2O. 35 GALS IN TANK.

METER READINGS:

TIME	METER RDG	GPM
12:50	4779938	—
12:55	4780043	21
13:00	4780148	21
13:05	4780253	21

13:30 SITE DEPARTURE TMT

2-21-17

13:20 Arrived on site with system operating. Intake and outfall ok.

Weather: Sunny with light winds High of 65°.

Added 45 gals Am + 14.5 gals H2O to tank. Total gals 19. Tank full.

Meter Reading:

Time	Meter Rdg.	GPM
13:40	5420271	—
13:45	5420376	21
13:50	5420482	21.2
13:55	5420587	21

14:10 Site Departure

TMT

3-14-17

09:30 Arrived on site with system operating.

Weather: Sunny with light winds High of 24°.

Intake and outfall ok.

Aqua-Mag tank at 1/2 gals Added 4.5 gals Am + 14.5 gals H2O Aqua-Mag drum half full.

Meter Reading:

Time	Meter Rdg.	GPM
10:00	6050035	—
10:05	6050140	21
10:10	6050245	21
10:15	6050349	20.8

Avg Pumping Rate = 20.9 GPM

3-14-17

POWER TO REMEDIATION BUILDING TO BE TURNED OFF AROUND NOON BY VILLAGE.

10:20 TURNED OFF TREATMENT SYSTEM METER RDG. = 6050454

10:30 SITE DEPARTURE WITH SYSTEM OFF.

TMM

3-15-17

13:40 ARRIVED ON SITE WITH SYSTEM OFF.

WEATHER: SUNNY WITH LIGHT WINDS HIGH OF 30°.

13:50 RESTART SYSTEM: METER READING = 6050454

INTAKE AND OUTFALL OK.

14:05 SITE DEPARTURE

TMM

3-24-2017

Mark Manthey

Arrive 9:48, cloudy 50°F. Autodialer called at 7:40 PM on 3-23-2017 with Alarm condition #2= High Water Level in Air Stripper Sump. System was on and pumping groundwater upon arrival. Checked outfall = OK. Checked other system components: air stripper, AquaMag pump, water meter. All operating. AquaMag Tank Level = 2 gal About 0.7 gal usage. A little low.

3-24-2017

Filled AquaMag Tank with 2 gal AquaMag + 5 gal water. Increased stroke on AquaMag pump from 48 to 50.

Meter Readings:

Time	Gallons	gpm
9:58	6,324,574	—
10:04	6,324,705	21.83
10:20	6,325,052	21.69

Leave site at 10:25 with system operating

Mark Manthey

4-11-17

09:00 ARRIVED ON SITE WITH MARTELLE PERSONNEL FOR GE MODELS FOR AQUA-MAG DELIVERY. 3-GALS OF AQUA-MAG DELIVERED.

WEATHER: CLOUDY WITH LIGHT WINDS AND LIGHT SHOWERS HIGH OF 45°.

OUTFALL AND INTAKE OK.

AQUA-TANK AT 19-GALS. ADD 3.5 GALS AQUA + 12.5 GALS H20

4-11-17

METER READINGS

TIME	METER READING	GPM
09:20	6888739	—
09:25	6888848	21.8
09:30	6888956	21.6
09:35	6889065	21.8
	AVG	21.7

09:50 SITE DEPARTURE WITH SYSTEM OPERATING.

4-25-17

14:40 ARRIVED AT SITE WITH SISTER - TESTING.

WEATHER: CLOUDY WITH LIGHT WINDS 65°.

ADD 3.5 GAL + 10.5 H2O TO TANK

OUTFALL AND INTAKE OK.

METER READINGS:

Time	METER REG	GPM
15:00	7333951	—
15:05	7334059	21.6
15:10	7334168	21.8
15:15	7334277	21.8
	AVG	21.7

15:30 SITE DEPARTURE

Tim T

5-9-17

15:15 ARRIVED AT SITE WITH SISTER - TESTING.

WEATHER: CLOUDY AND COOL HIGH OF 60°.

OUTFALL AND INTAKE OK. 25-GAL

IN TANK. ADD 3.5 GAL & 11.5 H2O

METER READINGS:

Time	METER REG	GPM
15:30	7769602	—
15:35	7769707	21
15:40	7769812	21
15:45	7769917	21
	AVG	21

16:00 SITE DEPARTURE

Tim T

WED
5-17-17

10:25 ARRIVED ON SITE FROM DELAWARE SITE. SYSTEM OPERATING.

WEATHER: CLOUDY WITH RAIN SHOWERS HIGH OF 65°.

CONDUCT SEMI-ANNUAL GW MONITORING.

COLLECT INFLUENT & EFFLUENT SAMPLES

15:15 SHUT DOWN SYSTEM FOR PURGE WATER.

15:45 METER READ = 3012676 RESTART SYSTEM.

16:10 SITE DEPARTURE

THURS
5-18-17

11:40 ARRIVED ON SITE WITH SYSTEM OPERATING. BARDED TUBING ARRIVED

WEATHER: CLOUDY AND WINDY HIGH OF 65°.

CONSTRUCT AND INSTALL DEDICATED LOW-FLOW SAMPLING EQUIPMENT IN MW-15D, MW-16D & MW-17D.

COLLECT ROUND OF WATER LEVELS

18:50 SITE DEPARTURE

5-23-17

14:20 Arrived at site with system operating.

Weather: Cloudy Light winds High of 65°

Intake and outfall ok.

Filled Aqua-Mag Tank (Aug 1-GPD)

3.5 Aqua-Mag and 10.5 Gals H20

Meter Readings:

Time	Meter Reading	GPM	
14:40	8188353	—	
14:45	8188456	20.6	
14:50	8188559	20.6	AVG.
14:55	8188662	20.6	

15:10 Site Departure

Tim

6-6-17

15:00 Arrived at site with system operating.

Weather: Partly Cloudy, Lt winds, High of 70°

Filled Aqua-Mag Tank Add 3.5 Gals

Aqua-Mag and 10.5 Gals H20.

Intake and outfall ok.

Meter Readings

Time	Meter Reading	GPM	
15:15	8599977	—	
15:20	8600098	20.2	
15:25	8600200	20.4	
15:30	8600302	20.4	
			(AVG 20.3)

15:40 Site Departure

Tim

6-22-17

10:50 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: CLOUDY WITH RAIN SHOWERS HIGH OF 88°.

OUTFALL AND INTAKE OK.

FILLED AQUAMAG TANK. ADD 3.5 GALS AQUAMAG AND 11.5 GALS H_2O.

METER READINGS:

TIME	METER RDG	GPM
11:10	9666088	—
11:15	9666192	20.8
11:20	9666296	20.8
11:25	9666400	20.8

11:35 SITE DEPARTURE [illegible]

7-7-17

09:00 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: SUNNY W/ LIGHT WINDS HIGH OF 80°.

AIR INTAKE & OUTFALL OK. CUT DOWN TREE GROWING IN FRONT OF AIR INTAKE

FILLED AQUAMAG TANK. ADD 3.5 AQUAMAG AND 12.5 GALS H_2O.

METER READINGS:

TIME	METER RDG	GPM
09:25	9497164	—
09:30	9497261	19.4
09:35	9497358	19.4
09:40	9497456	19.6
	(AVG	19.5)

09:50 SITE DEPARTURE [illegible]

7-20-17

11:30 ARRIVED ON SITE WITH SYSTEM OPERATING

11:35 METER READING = 9762302

WEATHER: PARTLY CLOUDY HOT & HUMID 96°.

AIR INTAKE AND OUTFALL OK.

FLOW METER STICKING AT TIMES UPON ARRIVAL. STOPPING AND STARTING. TURN SYSTEM OFF AND OFF SEVERAL TIMES AND TAP METER WITH HAMMER. METER WOULD NOT EVEN RUN FOR 1-MIN. METER STOPPED COMPLETELY AT 9762502

FILLED AQUA-MAG TANK. AQUA-MAG DRUM JUST UNDER 2/3 FULL.

12:40 SITE DEPARTURE WITH OUTFALL OK

8-8-17

15:40 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: SUNNY W/ LT. WINDS HIGH OF 80°.

OUTFALL & INTAKE OK. METER NOT WORKING.

SCOPE OF POSSIBLE RELOCATION OF REMEDIATION BUILDING, INSPECT BUILDING STRUCTURE AND RELOCATION AREAS. SEE PHOTOS.

FILL AQUA-MAG TANK

FLOW METER NOT WORKING.

16:40 SITE DEPARTURE

JMY

8-22-17

08:50 ARRIVED AT SITE WITH SYSTEM OPERATING

WEATHER: PARTLY CLOUDY WITH LIGHT WINDS HIGH OF 80°.

09:00 MET WITH NORTH STATE ENVIRONMENTAL PERSONNEL DAVE JOHNSON & RICHARD WEHRLE. SCOPE OUT PROPOSED LOCATIONS FOR TREATMENT SYSTEM BUILDING MOVE. ACCORDING TO NORTH STATE PERSONNEL BOTH PROPOSED LOCATIONS WOULD COST ABOUT THE SAME EXCEPT FOR SOME ADDITIONAL FOOTAGE.

IF BUILDING MOVED NORTH TO PROPERTY BOUNDARY IT WOULD REQUIRE EASEMENT FROM CITY.

8-22-17

PHONE LINE BURIED FROM STREET?

2-POWER POLES LOCATED NEAR CURRENT LOCATION. ONE OF THE POWER POLES HAS TRANSFORMERS ATTACHED TO IT. IF ONE OR BOTH POWER POLES REMAIN THEY WOULD LINE UP WITH THE TREATMENT BUILDING IF IT WERE MOVED DUE NORTH. VEHICLES WOULD HAVE TO WEAVE AROUND WITH NO DRIVE. STEPHANIE NOT ON SITE TODAY. SPOKE WITH CHUCK (MANAGER). HE COULD NOT ANSWER POWER POLE QUESTIONS. HE MENTIONED THE POWER POLES BY THE NEW SAND BLASTING BUILDING WERE RELOCATED.

8-22-17

CHUCK CALLED GREG DEWALL ABOUT POWER POLES.

10:00 NORTH SHORE PERSONNEL DEPARTED SITE.

OUTFALL AND AIR INTAKE OK.

FILLED AQUA MAG TANK. AQUA-MAG USEAGE AT 0.7 GPD. INCREASE STROKE AND SPEED.

FLOW METER NOT WORKING METER READING = 9772335

GREG DEWALL ARRIVED ON SITE.

8-22-17

GREG BELIEVES ONE OF THE POWER POLES IS GOING TO STAY, BUT WOULD LIKE TO HAVE THE TREATMENT BUILDING MOVED TO THE FARTHEST LOCATION TO THE NORTH.

11:30 SITE DEPARTURE.

[signature]

8-23-17

Pick-up New Water Meter, New Hose For Meter and Equipment For Meter Install-ation

09:50 Arrived on Site with Sister Opening.

Weather: Sunny with Light Winds High of 78°.

10:00 Turn off System For New Water Meter Replacement. Meter Not Working. Final Meter Reg = 9772335

8-23-17

Remove Water Meter with Hoses and Flanges.

Assemble New Meters with New Fittings and Clean Some of the Existing Ones. Replace Inserts Clamps and Re-mount For New Meter. Re-place Flange Bolts. Install New Water Meter

Replace Air Filter and Filter Bags

17:05 Restart System: Meter Reading = 0000 000

8-23-17

Time	Meter Reg	Gpm	Comments
17:05	0000 000	—	Restart System
17:10	0000 098	19.6	
17:15	0000 196	19.6	
17:20	0000 295	19.8	
17:25	0000 394	19.8	
17:30	0000 492	19.6	
		(Avg 19.7)	

No Leaks Along System.

17:40 Site Departure

9-5-17

14:15 Arrived on Site with System Operating.

Weather: Cloudy, Windy and Cool High 68°.

Intake and outfall OK.

Fill Aqua-Mag Tank. Add 3.5 Gals Aqua-Mag and 12.5 Gals H20.

Collect Influent and Effluent Samples.

15:20 Site Departure

9-5-17

Meter Readings

Time	Meter Reading	GPM	Comments
14:35	03601428	–	Influent
14:40	03601525	19.4	Effluent
14:45	03601620	19	
14:50	03601717	19.4	
	(Avg 19.3)		

9/11/17

Mark Mauldin

Arrive 17:21. Sunny 74°F.

System off.

Shut down ~ 11:43 due to high air stripper sump water level alarm

Meter Readings

Gallons	Time	GPM
05236 10	17:21	
05236 10	17:25	Restart
0,523,728	17:31	19.17
0,523,804	17:35	19.0

Check outlet = OK

Check air stripper exhaust stack = OK

9-11-17

Leave site at 17:40 with System operating.

9-20-17

08:00 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: SUNNY WITH LIGHT WINDS 64°. HIGH OF 83°.

AIR INTAKE AND OUTFALL OK.

ADD 4.5 AQUA-MAG AND 15.5 H_2O. DECREASE STROKE AND SPEED. AQUA-MAG DRUM JUST ABOVE 1/3. 35-GALLONS IN TANK.

08:50 SITE DEPARTURE

9-2-17

METER READINGS:

Time	METER REG.	GPM
08:25	0758677	—
08:30	0758772	19
08:35	0758867	19
08:40	0758963	19.2
	(AVG	19.1)

TMT

10-3-17

14:45 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: CLOUDY & WINDY HIGH OF 80°.

CAN FULL AND TANKS OK.

FILL ACID-MAG TANK. 25 GAL & 85 H2O

INCREASE SPEED & STROKE SLIGHTLY.

METER READINGS

Time	METER REG.	GPM
14:55	1119783	—
15:00	1119887	18.8
15:05	1119980	18.6
15:10	1120074	18.8

15:25 SITE DEPARTURE

TMT

10-17-17

14:30 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: SUNNY LITTLE WIND WINDS HIGH OF 70°

OUTFALL AND AIR INTAKE OK. NO LEAKS IN SYSTEM.

FILLED ACID TANK. ADD 3.5 GAL

10.5 GAL H2O. AQUA MAG = 1.0 GPD

METER READINGS

Time	Meter Reading	GPM
14:45	1496255	—
14:50	1496348	18.6
14:55	1496441	18.6
15:00	1496534	18.6

15:10 SITE DEPARTURE TMT

10-27-17

10:20 DLM ON SITE

HIGH AIR STRIPPER WATER LEVEL ALARM @ 11:10 PM

LAST NIGHT WA AUTO DIALER TO MAM

10:25 OPEN CONTROL PANEL

STAT SUMP LAM LIT

CHEM TANK LAL LIT

INSIDE - NO SOUND

YELLOW TANK LEVEL 22 gal

WEATHER CLOUDY 40°

NO WATER FLOW

Meter Readings		GPM
10:35	1746169	0
10:40	HIT PANEL ALARM Reset	
10:45	1746268	20
10:50	1746360	18.4
10:55	1746451	18.2
11:00	1746543	18.4

FAN OUTLET CLEAR

AIR STRIPPER STACK OUTLET CLEAR

11:05 1746 ~~6634~~ GPM 18.2

11:10 CLOSE PANEL

11:15 LEAVE SITE

12.31.17

1150 Arrived on Ste

Weather 35°F, cloudy

System operating

~16 gal in Yellow Am tank

Added 4.3 gal Am + 14.7 gal H_2O

~1.36 gal/day Am Solution used

Meter Readings

Time	Gallons	GPM
1207	1852787.0	—
1209	1852824.0	18.5
1211	1852860.5	18.25
1213	1852897	18.25

mixer on Am tank making more noise than usual

10.31.17
left upper bag filter
pressure reading 0

left site at 1220
with system on +
operating

Ashley Wagner

11-15-17

9:00-10:00 : SHED AND PICK-UP FIELD SUPPLIES FOR SEMI-ANNUAL GROUND WATER MONITORING

11:00 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: CLOUDY WITH LIGHT WINDS AND LIGHT RAIN SHOWERS. HIGH OF 45°.

COLLECT GROUND WATER SAMPLES FROM MONITOR WELL MW-10S & 10I, MW-14SR & 14IR. ALSO, INFLUENT AND EFFLUENT SAMPLES.

15:40 TURN OFF EXTRACTION WELL PUMP. METER READS = 225961
PUMP PURGE WATER THROUGH →

11-15-17

AIR STRIPPER.

16:05 RESTART EXTRACTION WELL PUMP.

16:30 SITE DEPARTURE.

NOTE: NEW WELL CAP FOR MW-10I

TMT

NOTE: CHEM FEED STIRER NOT WORKING. MOTOR HOT - UNPLUGGED

11-16-17

08:00 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: CLOUDY WITH LIGHT WINDS HIGH OF 39°.

COLLECT LOW FLOW SAMPLES FROM MW-15D, MW-16D & MW-17D.

LOW-FLOW 9:00-13:30 = 4.5 HRS

VS GROUNDFOS PUMP?

FINISH SEMI-ANNUAL MONITORING.

12-GALS IN AQUA-MAG TANK FILL TANK, 23-GALS / 16 DAYS = 1.4 GALS/DAY. DECREASE STROKE TO 45 AND SPEED TO 10.

11-16-17

METER READINGS

Time	Meter Rdg.	GPM
14:10	2275155	—
14:15	2275744	17.8
14:20	2275834	18
14:25	2275924	18

(AVG. 17.9)

14:30 SITE DEPARTURE

Tony

NOTE:
AQUA-MAG ON SITE:
1/2 of 1/3 MARK ON DRUM

16:30 MARK CALLED: SYSTEM DOWN

11-17-17

08:20 ARRIVED ON SITE WITH SYSTEM OFF. METER READING = 2278243
RED LIGHTS on SURFACE CHEM TANK LVL. TRIP OFF WELL, STRIPPER & CHEM FEED AND RESET PANEL. SPOKE WITH STEPHANIE SCHWARTZ. ACCORDING TO STEPHANIE THERE POWER AND MPT POWER WENT OUT AROUND 4:30-4:45 FOR AROUND 20 MPH. LAST NIGHT.

08:30 RESTART SYSTEM: METER RDG. = 2278243

08:35 METER RDG = 2278333 / 18 GPM

08:45 SITE DEPARTURE

Tony

11-27-17

16:55 Arrived at Site with System off. System went down over the weekend.

Meter Rdg = 249844

17:00 Restart System:

Time	Meter Rdg	GPM
17:00	249844	—
17:05	249934	18

17:10 Site Departure

11-28-17

14:40 Arrived on Site with System Operating.

Weather: Partly cloudy with light winds High of 57°

Intake and outfall ok.

25-Gal In Aqua-Mag Tank.

Add 2.5 Gals Amt 7.5 Gals H20.

Adjust Speed and Stroke.

Meter Readings:

Time	Meter Rdg	GPM
15:00	251450	—
15:05	251465	18
15:10	251476	18
15:15	251489	17.8

11-28-17

SPOKE WITH STEPHANIE AND SHE WAS NOT AWARE OF ANY POWER SURGES OVER THE WEEK-END.

15:40 SITE DEPARTURE

TMT

12-15-17

09:30 ARRIVED ON SITE WITH SYSTEM OPERATING.

WEATHER: PARTLY CLOUDY AND WINDY HIGH OF 28°.

AIR INTAKE AND OUTFALL OK.

ADD-MAG TANK SLIGHTLY OVER FLOWING UPON ARRIVAL. ADD-MAG SOLUTION APPEARS NOT TO BE INJECTING INTO PIPING GOING TO FILTER BAGS. REMOVED 2-GALS FROM ADD-MAG TANK WHICH BROUGHT ADD-MAG LEVEL DOWN TO 35-GALLON LEVEL. REMOVED INJECTION LINE GOING TO FILTER BAG PIPING. IN-

12-15-17

INCREASED STROKE AND SPEED SETTINGS AND AQUA-MAG SOLUTIONS PURGING OUT OF INJECTION LINE. RE-ATTACHED AND WILL CHECK AT LATER DATE.

METER READINGS:

Time	Meter Rdg	GPM
09:35	2949370	—
09:40	2949462	18.4
09:45	2949553	18.2
09:50	2949645	18.4

10:25 SITE DEPARTURE

Tmf

12-26-17

10:00 ARRIVED ON SITE WITH SYSTEM SPARGING.

WEATHER: PARTLY CLOUDY AND VERY COLD HIGH OF 8°.

OUTFALL AND AIR INTAKE OK.

AQUA-MAG INJECTION LINE LOOKING GOOD. 18 GALS IN TANK

1.5 GPD: DECREASE SPEED AND STROKE. ADD 3.5 AQUA MAG + 13.5 GALS H2O.

METER READINGS:

Time	Meter Rdg	GPM
10:25	3239559	
10:30	3239661	18.4
10:35	3239752	18.2
10:40	3239843	18.2

11:00 SITE DEPARTURE

Tmf

SEMI-ANNUAL GROUNDWATER MONITORING
FIELD FORMS AND ANALYTICAL REPORTS

TETRA TECH GEO FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Sta-Rite, Deerfield	TEMPERATURE	Hanna
PROJECT NO.	117-7469001.02	CONDUCTIVITY	Hanna
LOCATION	Deerfield, WI	pH METER	Hanna
PERSONNEL	Todd M Thomson	OTHER	WLP: HERON

SAMPLE POINT	MW-10S	MW-10I	MW-14S(R)	MW-14I(R)	MW-15D
WATER TYPE	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	5-17-17	5-17-17	5-17-17	5-17-17	
CLOCK TIME (Military)	12:30	12:40	14:10	14:20	
DEPTH TO WATER (ft)*	5.90	6.10	9.01	9.45	
MEASURED WELL DEPTH (ft)*	13.75	26.27	15.04	24.76	119.7
PURGE/CASING VOL. (gal)	5-DRY	15	5	5-DRY	
DEPTH SAMPLE TAKEN (ft)*	13	20	15	24	
SAMPLING DEVICE	Bailer	Bailer	Bailer	Bailer	Bailer
FIELD TEMPERATURE (°C)	13.6	12.5	10.9	12.1	
ELEC. COND. (umhos/cm) MEASURED	Not Measured	Not Measured	Not Measured	Not Measured	Not Measured
ELEC. COND. (umhos/cm) AT 25 °C	1950	1118	769	789	
pH	6.96	7.35	7.59	7.48	
COLOR	CLEAR	CLEAR	CLEAR	CLEAR	
ODOR	NONE	NONE	NONE	NONE	
CLARITY	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)				
VOCs (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
NAME OF LABORATORY	Test America	Test America	Test America	Test America	Test America
DATE SENT TO LABORATORY	5-19-17	5-19-17	5-19-17	5-19-17	
SAMPLER=S NAME	Todd M Thomson	Todd M Thomson	Todd M Thomson	Todd M Thomson	Todd M Thomson

* Measured from top of well casing.

TETRA TECH LOW-FLOW METHOD FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM FOR SAMPLEPRO AND PERISTALTIC PUMPS

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	PENTAIR DEERFIELD	Temp., pH,	MP-20 FLOW CELL
PROJECT NO.	117-746900.02	Conductivity	MP-20 FLOW CELL
LOCATION	DEERFIELD, WI.	ORP	MP-20 FLOW CELL
PERSONNEL	TODD M. THOMSON	DO	MP-20 FLOW CELL

MONITOR WELL ID	MW-15D	MW-16D	MW-17D
WATER TYPE	Groundwater	Groundwater	Groundwater
DATE (month/day/year)	5-18-17	5-18-17	5-18-17
STATIC WATER LEVEL (ft)*/TIME	8.57 / 16:25	8.90 / 12:15	8.28 / 14:10
WELL DEPTH (feet)*	119.20	113.90	114.70
PUMP INLET DEPTH (feet)*	114.20	108.90	109.70
ENDING WATER LEVEL (ft)*/TIME	8.59	9.14	9.89
START PURGE TIME (Military)	16:50	13:10	14:45
END PURGE TIME (Military)	17:05	13:30	15:05
PURGE VOLUME (gallons)	1	2	1
SAMPLE TIME (Military)	17:20 + 17:25	13:40	15:20

INDICATOR PARAMETERS		MW-15D 1st	MW-15D 2nd	MW-15D 3rd	MW-16D 1st	MW-16D 2nd	MW-16D 3rd	MW-17D 1st	MW-17D 2nd	MW-17D 3rd
TIME (minutes)		600	700	800	1500	1600	1700	900	1000	1100
TEMPERATURE (° C)		11.76	11.72	11.66	11.70	11.65	11.72	11.95	11.84	11.82
pH		7.21	7.20	7.21	7.23	7.23	7.23	7.21	7.21	7.21
ELEC. COND. (uS/cm)	Measured	NA	NA	NA	NA	NA	NA	NA	NA	NA
	at 25° C	1.385	1.400	1.397	0.557	0.554	0.554	0.840	0.838	0.847
ORP (mV)		43	44	44	23	24	24	45	46	46
DISSOLVED OXYGEN (ppm)		1.79	1.71	1.64	6.38	6.44	6.41	1.56	1.42	1.44
DISSOLVED OXYGEN (% Sat.)		16.6	15.8	15.3	58.9	59.0	59.4	14.8	13.2	13.3
COLOR		CLEAR			CLEAR			CLEAR		
ODOR		NONE			NONE			NONE		
CLARITY		CLEAR			CLEAR			CLEAR		

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)		
VOCs 8260	3, 40ml, G L, NO		→
	DUP		
NAME OF LABORATORY	TEST AMERICA		→
DATE SENT TO LAB	5-19-17		→
SAMPLER-S NAME	TODD M THOMSON		→

*Measured from top of well casing.

TETRA TECH

TETRA TECH GEO FIELD WATER LEVEL DATA SHEET

Project Number: 117-7469001.02
Location: Deerfield, WI
Personnel: Todd M Thomson

Project Name: Sta-Rite, Deerfield Remedial Action
Instrument: _____

Monitor Well Identification	Date 2017	Time	Depth to Groundwater (feet below top of casing)	Comments
MW-1S	5-18	18:35	6.73	
MW-1I	NA	NA	NA	
MW-2S	5-18	18:30	7.67	
MW-3S	5-18	18:25	6.84	
MW-4S	NA	NA	NA	
MW-5S	NA	NA	NA	
MW-5I	NA	NA	NA	
MW-6S	NA	NA	NA	
MW-7S	5-18	18:20	5.08	
MW-8S	5-18	18:45	2.61	
MW-9S	NA	NA	NA	
MW-10S	5-17	11:50	5.90	
MW-10I	5-17	11:55	6.10	
MW-11S	5-18	18:05	5.38	
MW-12S	5-18	18:15	15.30	
MW-13S	5-18	18:10	8.29	
MW-14SR	5-17	13:40	9.01	
MW-14IR	5-17	13:45	9.45	
MW-15D	5-18	16:25	8.57	
MW-16D	5-18	12:15	8.90	
MW-17D	5-18	14:10	8.29	

TETRA TECH GEO FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Sta-Rite, Deerfield	TEMPERATURE	Hanna
PROJECT NO.	117-7469001.02	CONDUCTIVITY	Hanna
LOCATION	Deerfield, WI	pH METER	Hanna
PERSONNEL	Todd M Thomson	OTHER	WLP: HERON

SAMPLE POINT		MW-10S	MW-10I	MW-14S(R)	MW-14I(R)	
WATER TYPE		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
DATE (month/day/year)		11-15-17	11-15-17	11-15-17	11-15-17	
CLOCK TIME (Military)		13:20	13:40	14:30	14:50	
DEPTH TO WATER (ft)*		7.49	7.74	11.31	11.11	
MEASURED WELL DEPTH (ft)*		13.75	26.27	15.04	24.76	
PURGE/CASING VOL. (gal)		5-DRY	15	3-DRY	5-DRY	
DEPTH SAMPLE TAKEN (ft)*		13	20	15	24	
SAMPLING DEVICE		Bailer	Bailer	Bailer	Bailer	
FIELD TEMPERATURE (°C)		16.0	14.5	14.9	14.5	
ELEC. COND. (umhos/cm)	MEASURED	Not Measured	Not Measured	Not Measured	Not Measured	
	AT 25 °C	1723	1152	733	797	
pH		6.88	7.17	7.14	7.26	
COLOR		CLEAR	CLEAR	CLEAR	CLEAR	
ODOR		NONE	NONE	NONE	NONE	
CLARITY		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)				
VOCs (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	
NAME OF LABORATORY	Test America	Test America	Test America	Test America	
DATE SENT TO LABORATORY	11-17-17	11-17-17	11-17-17	11-17-17	
SAMPLER=S NAME	Todd M Thomson	Todd M Thomson	Todd M Thomson	Todd M Thomson	

* Measured from top of well casing.

TETRA TECH LOW-FLOW METHOD FIELD WATER QUALITY SAMPLING AND ANALYSIS FORM FOR SAMPLEPRO AND PERISTALTIC PUMPS

PROJECT INFORMATION		INSTRUMENTS	
PROJECT	Pentair Deerfield	Temp., pH,	QED MP20 Flow Cell Meter
PROJECT NO.	117-7469001.02	Conductivity	QED MP20 Flow Cell Meter
LOCATION	Deerfield, Wi..	ORP	QED MP20 Flow Cell Meter
PERSONNEL	Todd M Thomson	DO	QED MP20 Flow Cell Meter

MONITOR WELL ID	MW-15D			MW-16D			MW-17D		
WATER TYPE	Groundwater			Groundwater			Groundwater		
DATE (month/day/year)	11-16-17			11-16-17			11-16-17		
STATIC WATER LEVEL (ft)*/TIME	9.89	11:30		10.28	08:55		9.38	10:15	
WELL DEPTH (feet)*	119.20			113.90			114.70		
PUMP INLET DEPTH (feet)*	114.20			108.90			109.70		
ENDING WATER LEVEL (ft)*/TIME	9.89			10.43			11.77		
START PURGE TIME (Military)	12:00			09:05			10:25		
END PURGE TIME (Military)	12:35			09:35			10:45		
PURGE VOLUME (gallons)	2			1			1		
SAMPLE TIME (Military)	12:50 & 12:55			09:50			11:00		
INDICATOR PARAMETERS	1st	2nd	3rd	1st	2nd	3rd	1st	2nd	3rd
TIME (minutes)	27:00	28:00	29:00	7:00	8:00	9:00	8:00	9:00	10:00
TEMPERATURE (° C)	11.78	11.76	11.72	11.50	11.49	11.42	11.75	11.72	11.72
ELEC. COND. (uS/cm)	1.52	1.52	1.51	0.609	0.602	0.603	0.899	0.900	0.901
DISSOLVED OXYGEN (ppm)	11.13	11.04	10.96	11.56	11.60	11.61	7.68	7.79	7.82
pH	7.44	7.42	7.42	7.35	7.38	7.39	7.36	7.36	7.37
ORP (mV)	79	79	79	69	69	70	79	79	79
DISSOLVED OXYGEN (% Sat.)	103.4	102.4	101.7	104.3	104.4	104.6	71.1	72.1	72.4
COLOR	CLEAR			CLEAR			CLEAR		
ODOR	NONE			NONE			NONE		
CLARITY	CLEAR			CLEAR			CLEAR		

SAMPLING PARAMETERS	# OF CONTAINERS & VOLUME; CONTAINER TYPE (A=AMBER; G=GLASS; P=PLASTIC); PRESERVATIVE TYPE (L=LAB ADDED; F=FIELD ADDED) OR NEUTRAL; FILTERED (YES or NO)		
VOCs 8260B	3-40 mL; G; HCL-L; No	3-40 mL; G; HCL-L; No	3-40 mL; G; HCL-L; No
	Duplicate		
NAME OF LABORATORY	Test America	Test America	Test America
DATE SENT TO LAB	11-17-17	11-17-17	11-17-17
SAMPLER=S NAME	Todd M Thomson	Todd M Thomson	Todd M Thomson

*Measured from top of well casing.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 500-128479-1
Client Project/Site: Pentair Deerfield - 117-7469001.02

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

Attn: Mr. Mark Manthey

Sandie Fredrick

Authorized for release by:
5/31/2017 1:02:23 PM

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

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Job ID: 500-128479-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-128479-1

Comments
No additional comments.

Receipt
The samples were received on 5/20/2017 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-17D (500-128479-6), MW-15D (500-128479-7) and MW-15D DUP (500-128479-8). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-10S — Lab Sample ID: 500-128479-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.5		1.0	0.38	ug/L	1		8260B	Total/NA

Client Sample ID: MW-10I — Lab Sample ID: 500-128479-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.78	J	1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethane	9.7		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.6		1.0	0.39	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.84	J	1.0	0.37	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	44		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	26		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-14SR — Lab Sample ID: 500-128479-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.41	ug/L	1		8260B	Total/NA
Trichloroethene - DL	490		5.0	1.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-14IIR — Lab Sample ID: 500-128479-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.7		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.89	J	1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene - DL	500		5.0	1.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-16D — Lab Sample ID: 500-128479-5

No Detections.

Client Sample ID: MW-17D — Lab Sample ID: 500-128479-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	15		2.0	0.82	ug/L	2		8260B	Total/NA
1,1-Dichloroethene	86		2.0	0.78	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	3.8		2.0	0.70	ug/L	2		8260B	Total/NA
1,1,1-Trichloroethane	140		2.0	0.76	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	530		20	8.2	ug/L	20		8260B	Total/NA
Trichloroethene - DL	860		10	3.3	ug/L	20		8260B	Total/NA

Client Sample ID: MW-15D — Lab Sample ID: 500-128479-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.7	J	5.0	2.0	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	3.1	J	5.0	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	230		2.5	0.82	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1100		50	20	ug/L	50		8260B	Total/NA

Client Sample ID: MW-15D DUP — Lab Sample ID: 500-128479-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.9	J	5.0	2.0	ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-15D DUP (Continued) — Lab Sample ID: 500-128479-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	3.2	J	5.0	1.7	ug/L	5		8260B	Total/NA
Trichloroethene	280		2.5	0.82	ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1100		50	20	ug/L	50		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-128479-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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 = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-128479-1	MW-10S	Ground Water	05/17/17 12:30	05/20/17 11:30
500-128479-2	MW-10I	Ground Water	05/17/17 12:40	05/20/17 11:30
500-128479-3	MW-14SR	Ground Water	05/17/17 14:10	05/20/17 11:30
500-128479-4	MW-14IIR	Ground Water	05/17/17 14:20	05/20/17 11:30
500-128479-5	MW-16D	Ground Water	05/18/17 13:40	05/20/17 11:30
500-128479-6	MW-17D	Ground Water	05/18/17 15:20	05/20/17 11:30
500-128479-7	MW-15D	Ground Water	05/18/17 17:20	05/20/17 11:30
500-128479-8	MW-15D DUP	Ground Water	05/18/17 17:25	05/20/17 11:30
500-128479-9	Trip Blank	Water	05/17/17 00:00	05/20/17 11:30

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-10S
Date Collected: 05/17/17 12:30
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-1
Matrix: Ground 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			05/28/17 08:26	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 08:26	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 08:26	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 08:26	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 08:26	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 08:26	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 08:26	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 08:26	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 08:26	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 08:26	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 08:26	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 08:26	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/17 08:26	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 08:26	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 08:26	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 08:26	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 08:26	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 08:26	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 08:26	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 08:26	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 08:26	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/17 08:26	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 08:26	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 08:26	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 08:26	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 08:26	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 08:26	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 08:26	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 08:26	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 08:26	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 08:26	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 08:26	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 08:26	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 08:26	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 08:26	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 08:26	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 08:26	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 08:26	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/17 08:26	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 08:26	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 08:26	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/17 08:26	1

Client Sample ID: MW-10S

Date Collected: 05/17/17 12:30
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-1

Matrix: Ground 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			05/28/17 08:26	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 08:26	1
1,1,1-Trichloroethane	**2.5**		1.0	0.38	ug/L			05/28/17 08:26	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 08:26	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/17 08:26	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 08:26	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 08:26	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 08:26	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 08:26	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 08:26	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*05/28/17 08:26*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*05/28/17 08:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*05/28/17 08:26*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/28/17 08:26*	*1*

Client Sample ID: MW-10I

Date Collected: 05/17/17 12:40
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-2

Matrix: Ground 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			05/28/17 08:56	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 08:56	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 08:56	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 08:56	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 08:56	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 08:56	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 08:56	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 08:56	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 08:56	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 08:56	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 08:56	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 08:56	1
cis-1,2-Dichloroethene	**0.78**	**J**	1.0	0.41	ug/L			05/28/17 08:56	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 08:56	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 08:56	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 08:56	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 08:56	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 08:56	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 08:56	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 08:56	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 08:56	1
1,1-Dichloroethane	**9.7**		1.0	0.41	ug/L			05/28/17 08:56	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
1,1-Dichloroethene	**2.6**		1.0	0.39	ug/L			05/28/17 08:56	1

Client Sample ID: MW-10I

Date Collected: 05/17/17 12:40
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 08:56	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 08:56	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 08:56	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 08:56	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 08:56	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 08:56	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 08:56	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 08:56	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 08:56	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 08:56	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 08:56	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 08:56	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 08:56	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 08:56	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 08:56	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 08:56	1
Tetrachloroethene	**0.84**	**J**	1.0	0.37	ug/L			05/28/17 08:56	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 08:56	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 08:56	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/17 08:56	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/17 08:56	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 08:56	1
1,1,1-Trichloroethane	**44**		1.0	0.38	ug/L			05/28/17 08:56	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 08:56	1
Trichloroethene	**26**		0.50	0.16	ug/L			05/28/17 08:56	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 08:56	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 08:56	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 08:56	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 08:56	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 08:56	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 08:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*05/28/17 08:56*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*05/28/17 08:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/28/17 08:56*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 08:56*	*1*

Client Sample ID: MW-14SR

Date Collected: 05/17/17 14:10
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-3

Matrix: Ground 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			05/28/17 09:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 09:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 09:25	1

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-14SR
Date Collected: 05/17/17 14:10
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 09:25	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 09:25	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 09:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 09:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 09:25	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 09:25	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 09:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 09:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 09:25	1
cis-1,2-Dichloroethene	**2.5**		1.0	0.41	ug/L			05/28/17 09:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 09:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 09:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 09:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 09:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 09:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 09:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 09:25	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 09:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/17 09:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 09:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 09:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 09:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 09:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 09:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 09:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 09:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 09:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 09:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 09:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 09:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 09:25	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 09:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 09:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 09:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 09:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/17 09:25	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 09:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 09:25	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/17 09:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/17 09:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 09:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/17 09:25	1

Client Sample ID: MW-14SR

Date Collected: 05/17/17 14:10
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 09:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 09:25	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 09:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 09:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 09:25	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 09:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*05/28/17 09:25*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*05/28/17 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/28/17 09:25*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/28/17 09:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**490**		5.0	1.6	ug/L			05/28/17 09:55	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*05/28/17 09:55*	*10*
Dibromofluoromethane	*98*		*75 - 120*		*05/28/17 09:55*	*10*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*05/28/17 09:55*	*10*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/28/17 09:55*	*10*

Client Sample ID: MW-14IIR

Date Collected: 05/17/17 14:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-4

Matrix: Ground 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			05/28/17 10:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 10:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 10:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 10:24	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 10:24	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 10:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 10:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 10:24	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 10:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 10:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 10:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 10:24	1
cis-1,2-Dichloroethene	**5.7**		1.0	0.41	ug/L			05/28/17 10:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 10:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 10:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 10:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 10:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 10:24	1

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-14IIR
Date Collected: 05/17/17 14:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 10:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 10:24	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 10:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/17 10:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 10:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 10:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 10:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 10:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 10:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 10:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 10:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 10:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 10:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 10:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 10:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 10:24	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 10:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 10:24	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 10:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 10:24	1
Tetrachloroethene	**0.89**	**J**	1.0	0.37	ug/L			05/28/17 10:24	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 10:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 10:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/17 10:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/17 10:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 10:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/17 10:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 10:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 10:24	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 10:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 10:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 10:24	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 10:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 10:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*		*05/28/17 10:24*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*05/28/17 10:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*05/28/17 10:24*	*1*
Toluene-d8 (Surr)	*105*		*75 - 120*		*05/28/17 10:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**500**		5.0	1.6	ug/L			05/28/17 10:54	10

Client Sample ID: MW-14IIR

Date Collected: 05/17/17 14:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-4
Matrix: Ground Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*05/28/17 10:54*	*10*
Dibromofluoromethane	*99*		*75 - 120*		*05/28/17 10:54*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/28/17 10:54*	*10*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 10:54*	*10*

Client Sample ID: MW-16D

Date Collected: 05/18/17 13:40
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-5
Matrix: Ground 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			05/28/17 11:23	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 11:23	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 11:23	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 11:23	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 11:23	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 11:23	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 11:23	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 11:23	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 11:23	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 11:23	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 11:23	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 11:23	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/17 11:23	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 11:23	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 11:23	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 11:23	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 11:23	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 11:23	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 11:23	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 11:23	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 11:23	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/17 11:23	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 11:23	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 11:23	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 11:23	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 11:23	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 11:23	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 11:23	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 11:23	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 11:23	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 11:23	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 11:23	1

Client Sample ID: MW-16D

Date Collected: 05/18/17 13:40
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-5

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 11:23	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 11:23	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 11:23	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 11:23	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 11:23	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 11:23	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/17 11:23	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 11:23	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 11:23	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/17 11:23	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/17 11:23	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 11:23	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/17 11:23	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 11:23	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/17 11:23	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 11:23	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 11:23	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 11:23	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 11:23	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 11:23	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*		*05/28/17 11:23*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*05/28/17 11:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*05/28/17 11:23*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*05/28/17 11:23*	*1*

Client Sample ID: MW-17D

Date Collected: 05/18/17 15:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			05/28/17 11:52	2
Bromobenzene	<0.71		2.0	0.71	ug/L			05/28/17 11:52	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			05/28/17 11:52	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			05/28/17 11:52	2
Bromoform	<0.97		2.0	0.97	ug/L			05/28/17 11:52	2
Bromomethane	<1.6		4.0	1.6	ug/L			05/28/17 11:52	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			05/28/17 11:52	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			05/28/17 11:52	2
Chloroethane	<1.0		2.0	1.0	ug/L			05/28/17 11:52	2
Chloroform	<0.74		4.0	0.74	ug/L			05/28/17 11:52	2
Chloromethane	<0.64		2.0	0.64	ug/L			05/28/17 11:52	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			05/28/17 11:52	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			05/28/17 11:52	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			05/28/17 11:52	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			05/28/17 11:52	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			05/28/17 11:52	2

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-17D
Date Collected: 05/18/17 15:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			05/28/17 11:52	2
Dibromomethane	<0.54		2.0	0.54	ug/L			05/28/17 11:52	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			05/28/17 11:52	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			05/28/17 11:52	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			05/28/17 11:52	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			05/28/17 11:52	2
1,1-Dichloroethane	**15**		2.0	0.82	ug/L			05/28/17 11:52	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			05/28/17 11:52	2
1,1-Dichloroethene	**86**		2.0	0.78	ug/L			05/28/17 11:52	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			05/28/17 11:52	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			05/28/17 11:52	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			05/28/17 11:52	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			05/28/17 11:52	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			05/28/17 11:52	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			05/28/17 11:52	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			05/28/17 11:52	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			05/28/17 11:52	2
Methylene Chloride	<3.3		10	3.3	ug/L			05/28/17 11:52	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			05/28/17 11:52	2
Naphthalene	<0.67		2.0	0.67	ug/L			05/28/17 11:52	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			05/28/17 11:52	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			05/28/17 11:52	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			05/28/17 11:52	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			05/28/17 11:52	2
Styrene	<0.77		2.0	0.77	ug/L			05/28/17 11:52	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			05/28/17 11:52	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			05/28/17 11:52	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			05/28/17 11:52	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			05/28/17 11:52	2
Toluene	<0.30		1.0	0.30	ug/L			05/28/17 11:52	2
trans-1,2-Dichloroethene	**3.8**		2.0	0.70	ug/L			05/28/17 11:52	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			05/28/17 11:52	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			05/28/17 11:52	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			05/28/17 11:52	2
1,1,1-Trichloroethane	**140**		2.0	0.76	ug/L			05/28/17 11:52	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			05/28/17 11:52	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			05/28/17 11:52	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			05/28/17 11:52	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			05/28/17 11:52	2
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			05/28/17 11:52	2
Vinyl chloride	<0.41		1.0	0.41	ug/L			05/28/17 11:52	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			05/28/17 11:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*05/28/17 11:52*	*2*
Dibromofluoromethane	*96*		*75 - 120*		*05/28/17 11:52*	*2*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*05/28/17 11:52*	*2*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 11:52*	*2*

Client Sample ID: MW-17D

Date Collected: 05/18/17 15:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	530		20	8.2	ug/L			05/28/17 12:22	20
Trichloroethene	860		10	3.3	ug/L			05/28/17 12:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*05/28/17 12:22*	*20*
Dibromofluoromethane	*97*		*75 - 120*		*05/28/17 12:22*	*20*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*05/28/17 12:22*	*20*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 12:22*	*20*

Client Sample ID: MW-15D

Date Collected: 05/18/17 17:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			05/28/17 12:51	5
Bromobenzene	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
Bromodichloromethane	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
Bromoform	<2.4		5.0	2.4	ug/L			05/28/17 12:51	5
Bromomethane	<4.0		10	4.0	ug/L			05/28/17 12:51	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
Chloroethane	<2.5		5.0	2.5	ug/L			05/28/17 12:51	5
Chloroform	<1.9		10	1.9	ug/L			05/28/17 12:51	5
Chloromethane	<1.6		5.0	1.6	ug/L			05/28/17 12:51	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			05/28/17 12:51	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			05/28/17 12:51	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			05/28/17 12:51	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			05/28/17 12:51	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
Dibromomethane	<1.4		5.0	1.4	ug/L			05/28/17 12:51	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			05/28/17 12:51	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			05/28/17 12:51	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
Dichlorodifluoromethane	<3.4		10	3.4	ug/L			05/28/17 12:51	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			05/28/17 12:51	5
1,1-Dichloroethene	2.7	J	5.0	2.0	ug/L			05/28/17 12:51	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			05/28/17 12:51	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			05/28/17 12:51	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			05/28/17 12:51	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			05/28/17 12:51	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			05/28/17 12:51	5
Methylene Chloride	<8.2		25	8.2	ug/L			05/28/17 12:51	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			05/28/17 12:51	5

Client Sample ID: MW-15D

Date Collected: 05/18/17 17:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<1.7		5.0	1.7	ug/L			05/28/17 12:51	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			05/28/17 12:51	5
Styrene	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			05/28/17 12:51	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			05/28/17 12:51	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			05/28/17 12:51	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
Toluene	<0.76		2.5	0.76	ug/L			05/28/17 12:51	5
trans-1,2-Dichloroethene	**3.1**	**J**	5.0	1.7	ug/L			05/28/17 12:51	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			05/28/17 12:51	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			05/28/17 12:51	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			05/28/17 12:51	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
Trichloroethene	**230**		2.5	0.82	ug/L			05/28/17 12:51	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			05/28/17 12:51	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			05/28/17 12:51	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			05/28/17 12:51	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			05/28/17 12:51	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			05/28/17 12:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*05/28/17 12:51*	*5*
Dibromofluoromethane	*97*		*75 - 120*		*05/28/17 12:51*	*5*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*05/28/17 12:51*	*5*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 12:51*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1100**		50	20	ug/L			05/28/17 13:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*05/28/17 13:21*	*50*
Dibromofluoromethane	*99*		*75 - 120*		*05/28/17 13:21*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/28/17 13:21*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 13:21*	*50*

Client Sample ID: MW-15D DUP

Date Collected: 05/18/17 17:25
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			05/28/17 13:50	5
Bromobenzene	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5
Bromochloromethane	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-15D DUP
Date Collected: 05/18/17 17:25
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
Bromoform	<2.4		5.0	2.4	ug/L			05/28/17 13:50	5
Bromomethane	<4.0		10	4.0	ug/L			05/28/17 13:50	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
Chlorobenzene	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
Chloroethane	<2.5		5.0	2.5	ug/L			05/28/17 13:50	5
Chloroform	<1.9		10	1.9	ug/L			05/28/17 13:50	5
Chloromethane	<1.6		5.0	1.6	ug/L			05/28/17 13:50	5
2-Chlorotoluene	<1.6		5.0	1.6	ug/L			05/28/17 13:50	5
4-Chlorotoluene	<1.7		5.0	1.7	ug/L			05/28/17 13:50	5
cis-1,3-Dichloropropene	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5
Dibromochloromethane	<2.4		5.0	2.4	ug/L			05/28/17 13:50	5
1,2-Dibromo-3-Chloropropane	<10		25	10	ug/L			05/28/17 13:50	5
1,2-Dibromoethane	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
Dibromomethane	<1.4		5.0	1.4	ug/L			05/28/17 13:50	5
1,2-Dichlorobenzene	<1.7		5.0	1.7	ug/L			05/28/17 13:50	5
1,3-Dichlorobenzene	<2.0		5.0	2.0	ug/L			05/28/17 13:50	5
1,4-Dichlorobenzene	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5
Dichlorodifluoromethane	<3.4		10	3.4	ug/L			05/28/17 13:50	5
1,1-Dichloroethane	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			05/28/17 13:50	5
1,1-Dichloroethene	**2.9**	**J**	5.0	2.0	ug/L			05/28/17 13:50	5
1,2-Dichloropropane	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5
1,3-Dichloropropane	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5
2,2-Dichloropropane	<2.2		5.0	2.2	ug/L			05/28/17 13:50	5
1,1-Dichloropropene	<1.5		5.0	1.5	ug/L			05/28/17 13:50	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			05/28/17 13:50	5
Hexachlorobutadiene	<2.2		5.0	2.2	ug/L			05/28/17 13:50	5
Isopropylbenzene	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
Isopropyl ether	<1.4		5.0	1.4	ug/L			05/28/17 13:50	5
Methylene Chloride	<8.2		25	8.2	ug/L			05/28/17 13:50	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			05/28/17 13:50	5
Naphthalene	<1.7		5.0	1.7	ug/L			05/28/17 13:50	5
n-Butylbenzene	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
N-Propylbenzene	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5
p-Isopropyltoluene	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5
sec-Butylbenzene	<2.0		5.0	2.0	ug/L			05/28/17 13:50	5
Styrene	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
tert-Butylbenzene	<2.0		5.0	2.0	ug/L			05/28/17 13:50	5
1,1,1,2-Tetrachloroethane	<2.3		5.0	2.3	ug/L			05/28/17 13:50	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			05/28/17 13:50	5
Tetrachloroethene	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
Toluene	<0.76		2.5	0.76	ug/L			05/28/17 13:50	5
trans-1,2-Dichloroethene	**3.2**	**J**	5.0	1.7	ug/L			05/28/17 13:50	5
trans-1,3-Dichloropropene	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5
1,2,3-Trichlorobenzene	<2.3		5.0	2.3	ug/L			05/28/17 13:50	5
1,2,4-Trichlorobenzene	<1.7		5.0	1.7	ug/L			05/28/17 13:50	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			05/28/17 13:50	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5

Client Sample ID: MW-15D DUP

Date Collected: 05/18/17 17:25
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**280**		2.5	0.82	ug/L			05/28/17 13:50	5
Trichlorofluoromethane	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5
1,2,3-Trichloropropane	<2.1		5.0	2.1	ug/L			05/28/17 13:50	5
1,2,4-Trimethylbenzene	<1.8		5.0	1.8	ug/L			05/28/17 13:50	5
1,3,5-Trimethylbenzene	<1.3		5.0	1.3	ug/L			05/28/17 13:50	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			05/28/17 13:50	5
Xylenes, Total	<1.1		5.0	1.1	ug/L			05/28/17 13:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*05/28/17 13:50*	*5*
Dibromofluoromethane	*97*		*75 - 120*		*05/28/17 13:50*	*5*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*05/28/17 13:50*	*5*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 13:50*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1100**		50	20	ug/L			05/28/17 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*05/28/17 14:19*	*50*
Dibromofluoromethane	*98*		*75 - 120*		*05/28/17 14:19*	*50*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*05/28/17 14:19*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 14:19*	*50*

Client Sample ID: Trip Blank

Date Collected: 05/17/17 00:00
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-9

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			05/28/17 14:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 14:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 14:49	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 14:49	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 14:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 14:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 14:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 14:49	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 14:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 14:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 14:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 14:49	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/17 14:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 14:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 14:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 14:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 14:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 14:49	1

Client Sample ID: Trip Blank
Date Collected: 05/17/17 00:00
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 14:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 14:49	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 14:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/17 14:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 14:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 14:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 14:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 14:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 14:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 14:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 14:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 14:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 14:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 14:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 14:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 14:49	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 14:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 14:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 14:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 14:49	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/17 14:49	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 14:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 14:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			05/28/17 14:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/17 14:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 14:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/17 14:49	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 14:49	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/17 14:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 14:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 14:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 14:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 14:49	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 14:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*05/28/17 14:49*	*1*
Dibromofluoromethane	*100*		*75 - 120*		*05/28/17 14:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*		*05/28/17 14:49*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*05/28/17 14:49*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

GC/MS VOA

Analysis Batch: 387217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-128479-1	MW-10S	Total/NA	Ground Water	8260B	
500-128479-2	MW-10I	Total/NA	Ground Water	8260B	
500-128479-3	MW-14SR	Total/NA	Ground Water	8260B	
500-128479-3 - DL	MW-14SR	Total/NA	Ground Water	8260B	
500-128479-4	MW-14IIR	Total/NA	Ground Water	8260B	
500-128479-4 - DL	MW-14IIR	Total/NA	Ground Water	8260B	
500-128479-5	MW-16D	Total/NA	Ground Water	8260B	
500-128479-6	MW-17D	Total/NA	Ground Water	8260B	
500-128479-6 - DL	MW-17D	Total/NA	Ground Water	8260B	
500-128479-7	MW-15D	Total/NA	Ground Water	8260B	
500-128479-7 - DL	MW-15D	Total/NA	Ground Water	8260B	
500-128479-8	MW-15D DUP	Total/NA	Ground Water	8260B	
500-128479-8 - DL	MW-15D DUP	Total/NA	Ground Water	8260B	
500-128479-9	Trip Blank	Total/NA	Water	8260B	
MB 500-387217/6	Method Blank	Total/NA	Water	8260B	
LCS 500-387217/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

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

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-128479-1	MW-10S	93	97	94	96
500-128479-2	MW-10I	94	98	97	95
500-128479-3 - DL	MW-14SR	94	98	93	96
500-128479-3	MW-14SR	93	98	96	96
500-128479-4	MW-14IIR	91	98	95	105
500-128479-4 - DL	MW-14IIR	93	99	97	95
500-128479-5	MW-16D	101	97	94	96
500-128479-6	MW-17D	93	96	93	95
500-128479-6 - DL	MW-17D	93	97	94	95
500-128479-7	MW-15D	94	97	94	95
500-128479-7 - DL	MW-15D	94	99	96	95
500-128479-8	MW-15D DUP	94	97	94	95
500-128479-8 - DL	MW-15D DUP	95	98	96	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-128479-9	Trip Blank	93	100	97	94
LCS 500-387217/4	Lab Control Sample	92	94	91	98
MB 500-387217/6	Method Blank	95	99	95	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 500-387217/6
Matrix: Water
Analysis Batch: 387217

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			05/28/17 07:55	1
Bromobenzene	<0.36		1.0	0.36	ug/L			05/28/17 07:55	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			05/28/17 07:55	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			05/28/17 07:55	1
Bromoform	<0.48		1.0	0.48	ug/L			05/28/17 07:55	1
Bromomethane	<0.80		2.0	0.80	ug/L			05/28/17 07:55	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			05/28/17 07:55	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
Chloroethane	<0.51		1.0	0.51	ug/L			05/28/17 07:55	1
Chloroform	<0.37		2.0	0.37	ug/L			05/28/17 07:55	1
Chloromethane	<0.32		1.0	0.32	ug/L			05/28/17 07:55	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			05/28/17 07:55	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			05/28/17 07:55	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			05/28/17 07:55	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			05/28/17 07:55	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			05/28/17 07:55	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			05/28/17 07:55	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
Dibromomethane	<0.27		1.0	0.27	ug/L			05/28/17 07:55	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			05/28/17 07:55	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			05/28/17 07:55	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			05/28/17 07:55	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			05/28/17 07:55	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			05/28/17 07:55	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			05/28/17 07:55	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			05/28/17 07:55	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			05/28/17 07:55	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			05/28/17 07:55	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			05/28/17 07:55	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			05/28/17 07:55	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			05/28/17 07:55	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			05/28/17 07:55	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
Naphthalene	<0.34		1.0	0.34	ug/L			05/28/17 07:55	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			05/28/17 07:55	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			05/28/17 07:55	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 07:55	1
Styrene	<0.39		1.0	0.39	ug/L			05/28/17 07:55	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			05/28/17 07:55	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			05/28/17 07:55	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			05/28/17 07:55	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			05/28/17 07:55	1
Toluene	<0.15		0.50	0.15	ug/L			05/28/17 07:55	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			05/28/17 07:55	1

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

Lab Sample ID: MB 500-387217/6
Matrix: Water
Analysis Batch: 387217

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			05/28/17 07:55	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			05/28/17 07:55	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			05/28/17 07:55	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			05/28/17 07:55	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			05/28/17 07:55	1
Trichloroethene	<0.16		0.50	0.16	ug/L			05/28/17 07:55	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			05/28/17 07:55	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			05/28/17 07:55	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			05/28/17 07:55	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			05/28/17 07:55	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			05/28/17 07:55	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			05/28/17 07:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*05/28/17 07:55*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*05/28/17 07:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*05/28/17 07:55*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*05/28/17 07:55*	*1*

Lab Sample ID: LCS 500-387217/4
Matrix: Water
Analysis Batch: 387217

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	46.2		ug/L		92	70 - 120
Bromobenzene	50.0	49.5		ug/L		99	70 - 122
Bromochloromethane	50.0	50.7		ug/L		101	65 - 122
Bromodichloromethane	50.0	44.5		ug/L		89	69 - 120
Bromoform	50.0	51.6		ug/L		103	56 - 132
Bromomethane	50.0	51.8		ug/L		104	40 - 130
Carbon tetrachloride	50.0	44.5		ug/L		89	65 - 122
Chlorobenzene	50.0	51.7		ug/L		103	70 - 120
Chloroethane	50.0	45.2		ug/L		90	45 - 127
Chloroform	50.0	44.3		ug/L		89	70 - 120
Chloromethane	50.0	52.3		ug/L		105	54 - 147
2-Chlorotoluene	50.0	48.3		ug/L		97	70 - 125
4-Chlorotoluene	50.0	47.9		ug/L		96	68 - 124
cis-1,2-Dichloroethene	50.0	47.8		ug/L		96	70 - 125
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	64 - 127
Dibromochloromethane	50.0	51.4		ug/L		103	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	39.6		ug/L		79	56 - 123
1,2-Dibromoethane	50.0	50.3		ug/L		101	70 - 125
Dibromomethane	50.0	48.5		ug/L		97	70 - 120
1,2-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 125
1,3-Dichlorobenzene	50.0	50.8		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 120
Dichlorodifluoromethane	50.0	34.6		ug/L		69	40 - 150
1,1-Dichloroethane	50.0	47.2		ug/L		94	70 - 125

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

Lab Sample ID: LCS 500-387217/4
Matrix: Water
Analysis Batch: 387217

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	46.8		ug/L		94	68 - 127
1,1-Dichloroethene	50.0	47.7		ug/L		95	67 - 122
1,2-Dichloropropane	50.0	50.9		ug/L		102	67 - 130
1,3-Dichloropropane	50.0	52.1		ug/L		104	62 - 136
2,2-Dichloropropane	50.0	35.4		ug/L		71	58 - 129
1,1-Dichloropropene	50.0	46.9		ug/L		94	70 - 121
Ethylbenzene	50.0	50.1		ug/L		100	70 - 120
Hexachlorobutadiene	50.0	47.1		ug/L		94	51 - 150
Isopropylbenzene	50.0	50.1		ug/L		100	70 - 126
Methylene Chloride	50.0	45.5		ug/L		91	69 - 125
Methyl tert-butyl ether	50.0	36.6		ug/L		73	70 - 120
Naphthalene	50.0	37.4		ug/L		75	59 - 130
n-Butylbenzene	50.0	47.6		ug/L		95	68 - 125
N-Propylbenzene	50.0	49.2		ug/L		98	69 - 127
p-Isopropyltoluene	50.0	49.3		ug/L		99	70 - 125
sec-Butylbenzene	50.0	50.3		ug/L		101	70 - 123
Styrene	50.0	50.2		ug/L		100	70 - 120
tert-Butylbenzene	50.0	49.6		ug/L		99	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	70 - 125
1,1,2,2-Tetrachloroethane	50.0	50.1		ug/L		100	67 - 127
Tetrachloroethene	50.0	51.0		ug/L		102	70 - 128
Toluene	50.0	48.3		ug/L		97	70 - 125
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	70 - 125
trans-1,3-Dichloropropene	50.0	43.5		ug/L		87	62 - 128
1,2,3-Trichlorobenzene	50.0	40.2		ug/L		80	55 - 140
1,2,4-Trichlorobenzene	50.0	40.7		ug/L		81	66 - 127
1,1,1-Trichloroethane	50.0	42.9		ug/L		86	70 - 125
1,1,2-Trichloroethane	50.0	51.5		ug/L		103	70 - 122
Trichloroethene	50.0	50.7		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	42.8		ug/L		86	70 - 126
1,2,3-Trichloropropane	50.0	44.3		ug/L		89	50 - 133
1,2,4-Trimethylbenzene	50.0	50.3		ug/L		101	70 - 123
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	70 - 123
Vinyl chloride	50.0	52.2		ug/L		104	64 - 126
Xylenes, Total	100	95.1		ug/L		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*
Dibromofluoromethane	*94*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-10S
Date Collected: 05/17/17 12:30
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387217	05/28/17 08:26	JMP	TAL CHI

Client Sample ID: MW-10I
Date Collected: 05/17/17 12:40
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387217	05/28/17 08:56	JMP	TAL CHI

Client Sample ID: MW-14SR
Date Collected: 05/17/17 14:10
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387217	05/28/17 09:25	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	10	387217	05/28/17 09:55	JMP	TAL CHI

Client Sample ID: MW-14IIR
Date Collected: 05/17/17 14:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387217	05/28/17 10:24	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	10	387217	05/28/17 10:54	JMP	TAL CHI

Client Sample ID: MW-16D
Date Collected: 05/18/17 13:40
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387217	05/28/17 11:23	JMP	TAL CHI

Client Sample ID: MW-17D
Date Collected: 05/18/17 15:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	387217	05/28/17 11:52	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	20	387217	05/28/17 12:22	JMP	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Client Sample ID: MW-15D
Date Collected: 05/18/17 17:20
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	387217	05/28/17 12:51	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	50	387217	05/28/17 13:21	JMP	TAL CHI

Client Sample ID: MW-15D DUP
Date Collected: 05/18/17 17:25
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	387217	05/28/17 13:50	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	50	387217	05/28/17 14:19	JMP	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 05/17/17 00:00
Date Received: 05/20/17 11:30

Lab Sample ID: 500-128479-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387217	05/28/17 14:49	JMP	TAL CHI

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-128479-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17

TestAmerica

THE LEADER IN ENVIRONMENTAL

2417 Bond Street, University Park, IL 604
Phone: 708.534.5200 Fax: 708.534.

500-128479 COC

Chain of Custody Record

Lab Job #: 500-128479

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 2.7

Report To (optional)	Bill To (optional)
Contact: MARK MATTHEY	Contact: Same As Report To:
Company: TETRA TECH	Company:
Address: 175 N. CORPORATE DR. SUITE 100	Address:
Address: BROOKFIELD, WI 53045	Address:
Phone: (262) 792-1282	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: TETRA TECH
Client Project #: 117-7469001.02
Project Name: PENTAIR DEERFIELD
Project Location/State: DEERFIELD, WI.
Lab Project #:
Sampler: TODD M. THOMSEN
Lab PM: SANDIE FREDRICK

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs 8260	Comments
1		MW-10S	5-17	12:30	3	GW		✓	
2		MW-10I	5-17	12:40	3			✓	
3		MW-14SR	5-17	14:10	3			✓	
4		MW-14IR	5-17	14:20	3			✓	
5		MW-16D	5-18	13:40	3			✓	
6		MW-17D	5-18	15:20	3			✓	
7		MW-15D	5-18	17:20	3			✓	
8		MW-15D Dup	5-18	17:25	3			✓	
9		TRIP BLANK	—	—	1	DI		✓	LAB PREPARED

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: STANDARD

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TETRA TECH	5-19-17	17:00		TA-CHI	5/20/17	1130

Lab Courier:
Shipped: FEDEX
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

5/31/2017

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-128479-1

Login Number: 128479
List Number: 1
Creator: Scott, Sherri L

List Source: 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	3.7
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	

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ANALYTICAL REPORT

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

TestAmerica Job ID: 500-137518-1
Client Project/Site: Pentair Deerfield - 117-7469001.02

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

Attn: Mr. Mark Manthey

Sandie Fredrick

Authorized for release by:
11/28/2017 12:53:19 PM

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

Table of Contents

Case Narrative

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Job ID: 500-137518-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-137518-1

Comments
No additional comments.

Receipt
The samples were received on 11/18/2017 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-15D (500-137518-7) and MW-15D Dup (500-137518-8). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Client Sample ID: MW-10S — Lab Sample ID: 500-137518-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.5		1.0	0.38	ug/L	1		8260B	Total/NA

Client Sample ID: MW-10I — Lab Sample ID: 500-137518-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	12		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.2		1.0	0.39	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.95	J	1.0	0.37	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	51		1.0	0.38	ug/L	1		8260B	Total/NA
Trichloroethene	26		0.50	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-14SR — Lab Sample ID: 500-137518-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.4		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.44	J	1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene - DL	500		5.0	1.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-14IR — Lab Sample ID: 500-137518-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.2		1.0	0.41	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
Trichloroethene - DL	620		5.0	1.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-16D — Lab Sample ID: 500-137518-5

No Detections.

Client Sample ID: MW-17D — Lab Sample ID: 500-137518-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	13		1.0	0.41	ug/L	1		8260B	Total/NA
1,1-Dichloroethene	63		1.0	0.39	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.8		1.0	0.35	ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	97		1.0	0.38	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	510		10	4.1	ug/L	10		8260B	Total/NA
Trichloroethene - DL	650		5.0	1.6	ug/L	10		8260B	Total/NA

Client Sample ID: MW-15D — Lab Sample ID: 500-137518-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.2		2.0	0.78	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	2.5		2.0	0.70	ug/L	2		8260B	Total/NA
Trichloroethene	200		1.0	0.33	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1100		20	8.2	ug/L	20		8260B	Total/NA

Client Sample ID: MW-15D Dup — Lab Sample ID: 500-137518-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	2.2		2.0	0.78	ug/L	2		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Client Sample ID: MW-15D Dup (Continued) — Lab Sample ID: 500-137518-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	2.1		2.0	0.70	ug/L	2		8260B	Total/NA
Trichloroethene	210		1.0	0.33	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	1200		20	8.2	ug/L	20		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-137518-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	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 = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-137518-1	MW-10S	Ground Water	11/15/17 13:20	11/18/17 10:05
500-137518-2	MW-10I	Ground Water	11/15/17 13:40	11/18/17 10:05
500-137518-3	MW-14SR	Ground Water	11/15/17 14:30	11/18/17 10:05
500-137518-4	MW-14IR	Ground Water	11/15/17 14:50	11/18/17 10:05
500-137518-5	MW-16D	Ground Water	11/16/17 09:50	11/18/17 10:05
500-137518-6	MW-17D	Ground Water	11/16/17 11:00	11/18/17 10:05
500-137518-7	MW-15D	Ground Water	11/16/17 12:50	11/18/17 10:05
500-137518-8	MW-15D Dup	Ground Water	11/16/17 12:55	11/18/17 10:05
500-137518-9	Trip Blank	Water	11/15/17 00:00	11/18/17 10:05

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Client Sample ID: MW-10S
Date Collected: 11/15/17 13:20
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-1
Matrix: Ground 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			11/27/17 23:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/27/17 23:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/27/17 23:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/27/17 23:53	1
Bromoform	<0.48		1.0	0.48	ug/L			11/27/17 23:53	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/27/17 23:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/27/17 23:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/27/17 23:53	1
Chloroform	<0.37		2.0	0.37	ug/L			11/27/17 23:53	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/27/17 23:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/27/17 23:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/27/17 23:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/27/17 23:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/27/17 23:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/27/17 23:53	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/27/17 23:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/27/17 23:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/27/17 23:53	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/27/17 23:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/27/17 23:53	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/27/17 23:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/27/17 23:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/27/17 23:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/27/17 23:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/27/17 23:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/27/17 23:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/27/17 23:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/27/17 23:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/27/17 23:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/27/17 23:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/27/17 23:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/27/17 23:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/27/17 23:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/27/17 23:53	1
Styrene	<0.39		1.0	0.39	ug/L			11/27/17 23:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/27/17 23:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/27/17 23:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/27/17 23:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/27/17 23:53	1
Toluene	<0.15		0.50	0.15	ug/L			11/27/17 23:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/27/17 23:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/27/17 23:53	1

Client Sample ID: MW-10S

Date Collected: 11/15/17 13:20
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-1

Matrix: Ground 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			11/27/17 23:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/27/17 23:53	1
1,1,1-Trichloroethane	**3.5**		1.0	0.38	ug/L			11/27/17 23:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/27/17 23:53	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/27/17 23:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/27/17 23:53	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/27/17 23:53	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/27/17 23:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/27/17 23:53	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/27/17 23:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/27/17 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/27/17 23:53*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*11/27/17 23:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/27/17 23:53*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/27/17 23:53*	*1*

Client Sample ID: MW-10I

Date Collected: 11/15/17 13:40
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-2

Matrix: Ground 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			11/28/17 00:20	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/28/17 00:20	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/28/17 00:20	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/28/17 00:20	1
Bromoform	<0.48		1.0	0.48	ug/L			11/28/17 00:20	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/28/17 00:20	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/28/17 00:20	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/28/17 00:20	1
Chloroform	<0.37		2.0	0.37	ug/L			11/28/17 00:20	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/28/17 00:20	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/28/17 00:20	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/28/17 00:20	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/28/17 00:20	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/28/17 00:20	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/28/17 00:20	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/28/17 00:20	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/28/17 00:20	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/28/17 00:20	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/28/17 00:20	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/28/17 00:20	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/28/17 00:20	1
1,1-Dichloroethane	**12**		1.0	0.41	ug/L			11/28/17 00:20	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
1,1-Dichloroethene	**2.2**		1.0	0.39	ug/L			11/28/17 00:20	1

Client Sample ID: MW-10I

Date Collected: 11/15/17 13:40
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-2

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/28/17 00:20	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/28/17 00:20	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/28/17 00:20	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/28/17 00:20	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/28/17 00:20	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/28/17 00:20	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/28/17 00:20	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/28/17 00:20	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/28/17 00:20	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/28/17 00:20	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/28/17 00:20	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 00:20	1
Styrene	<0.39		1.0	0.39	ug/L			11/28/17 00:20	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 00:20	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/28/17 00:20	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/28/17 00:20	1
Tetrachloroethene	**0.95**	**J**	1.0	0.37	ug/L			11/28/17 00:20	1
Toluene	<0.15		0.50	0.15	ug/L			11/28/17 00:20	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/28/17 00:20	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/28/17 00:20	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/28/17 00:20	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/28/17 00:20	1
1,1,1-Trichloroethane	**51**		1.0	0.38	ug/L			11/28/17 00:20	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/28/17 00:20	1
Trichloroethene	**26**		0.50	0.16	ug/L			11/28/17 00:20	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/28/17 00:20	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/28/17 00:20	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/28/17 00:20	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/28/17 00:20	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/28/17 00:20	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/28/17 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/28/17 00:20*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*11/28/17 00:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*11/28/17 00:20*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/28/17 00:20*	*1*

Client Sample ID: MW-14SR

Date Collected: 11/15/17 14:30
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-3

Matrix: Ground 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			11/28/17 00:49	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/28/17 00:49	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/28/17 00:49	1

Client Sample ID: MW-14SR
Date Collected: 11/15/17 14:30
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-3
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/28/17 00:49	1
Bromoform	<0.48		1.0	0.48	ug/L			11/28/17 00:49	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/28/17 00:49	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/28/17 00:49	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/28/17 00:49	1
Chloroform	<0.37		2.0	0.37	ug/L			11/28/17 00:49	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/28/17 00:49	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/28/17 00:49	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/28/17 00:49	1
cis-1,2-Dichloroethene	**2.4**		1.0	0.41	ug/L			11/28/17 00:49	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/28/17 00:49	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/28/17 00:49	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/28/17 00:49	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/28/17 00:49	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/28/17 00:49	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/28/17 00:49	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/28/17 00:49	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/28/17 00:49	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/28/17 00:49	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/28/17 00:49	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/28/17 00:49	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/28/17 00:49	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/28/17 00:49	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/28/17 00:49	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/28/17 00:49	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/28/17 00:49	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/28/17 00:49	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/28/17 00:49	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/28/17 00:49	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/28/17 00:49	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 00:49	1
Styrene	<0.39		1.0	0.39	ug/L			11/28/17 00:49	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 00:49	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/28/17 00:49	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/28/17 00:49	1
Tetrachloroethene	**0.44**	**J**	1.0	0.37	ug/L			11/28/17 00:49	1
Toluene	<0.15		0.50	0.15	ug/L			11/28/17 00:49	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/28/17 00:49	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/28/17 00:49	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/28/17 00:49	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/28/17 00:49	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/28/17 00:49	1

Client Sample ID: MW-14SR

Date Collected: 11/15/17 14:30
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-3

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/28/17 00:49	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/28/17 00:49	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/28/17 00:49	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/28/17 00:49	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/28/17 00:49	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/28/17 00:49	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/28/17 00:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/28/17 00:49*	*1*
Dibromofluoromethane	*92*		*75 - 120*		*11/28/17 00:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*11/28/17 00:49*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/28/17 00:49*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**500**		5.0	1.6	ug/L			11/28/17 01:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/28/17 01:17*	*10*
Dibromofluoromethane	*93*		*75 - 120*		*11/28/17 01:17*	*10*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*11/28/17 01:17*	*10*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/28/17 01:17*	*10*

Client Sample ID: MW-14IR

Date Collected: 11/15/17 14:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-4

Matrix: Ground 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			11/28/17 01:45	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/28/17 01:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/28/17 01:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/28/17 01:45	1
Bromoform	<0.48		1.0	0.48	ug/L			11/28/17 01:45	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/28/17 01:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/28/17 01:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/28/17 01:45	1
Chloroform	<0.37		2.0	0.37	ug/L			11/28/17 01:45	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/28/17 01:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/28/17 01:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/28/17 01:45	1
cis-1,2-Dichloroethene	**7.2**		1.0	0.41	ug/L			11/28/17 01:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/28/17 01:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/28/17 01:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/28/17 01:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/28/17 01:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/28/17 01:45	1

Client Sample ID: MW-14IR
Date Collected: 11/15/17 14:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/28/17 01:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/28/17 01:45	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/28/17 01:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/28/17 01:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/28/17 01:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/28/17 01:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/28/17 01:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/28/17 01:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/28/17 01:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/28/17 01:45	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/28/17 01:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/28/17 01:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/28/17 01:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/28/17 01:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/28/17 01:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 01:45	1
Styrene	<0.39		1.0	0.39	ug/L			11/28/17 01:45	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 01:45	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/28/17 01:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/28/17 01:45	1
Tetrachloroethene	**1.1**		1.0	0.37	ug/L			11/28/17 01:45	1
Toluene	<0.15		0.50	0.15	ug/L			11/28/17 01:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/28/17 01:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/28/17 01:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/28/17 01:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/28/17 01:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/28/17 01:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/28/17 01:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/28/17 01:45	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/28/17 01:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/28/17 01:45	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/28/17 01:45	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/28/17 01:45	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/28/17 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/28/17 01:45*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*11/28/17 01:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*75 - 126*		*11/28/17 01:45*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/28/17 01:45*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**620**		5.0	1.6	ug/L			11/28/17 02:12	10

Client Sample ID: MW-14IR

Lab Sample ID: 500-137518-4

Date Collected: 11/15/17 14:50

Matrix: Ground Water

Date Received: 11/18/17 10:05

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124		11/28/17 02:12	10
Dibromofluoromethane	94		75 - 120		11/28/17 02:12	10
1,2-Dichloroethane-d4 (Surr)	93		75 - 126		11/28/17 02:12	10
Toluene-d8 (Surr)	94		75 - 120		11/28/17 02:12	10

Client Sample ID: MW-16D

Lab Sample ID: 500-137518-5

Date Collected: 11/16/17 09:50

Matrix: Ground Water

Date Received: 11/18/17 10:05

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			11/28/17 02:40	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/28/17 02:40	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/28/17 02:40	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/28/17 02:40	1
Bromoform	<0.48		1.0	0.48	ug/L			11/28/17 02:40	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/28/17 02:40	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/28/17 02:40	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/28/17 02:40	1
Chloroform	<0.37		2.0	0.37	ug/L			11/28/17 02:40	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/28/17 02:40	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/28/17 02:40	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/28/17 02:40	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/28/17 02:40	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/28/17 02:40	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/28/17 02:40	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/28/17 02:40	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/28/17 02:40	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/28/17 02:40	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/28/17 02:40	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/28/17 02:40	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/28/17 02:40	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/28/17 02:40	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/28/17 02:40	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/28/17 02:40	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/28/17 02:40	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/28/17 02:40	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/28/17 02:40	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/28/17 02:40	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/28/17 02:40	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/28/17 02:40	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/28/17 02:40	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/28/17 02:40	1

Client Sample ID: MW-16D

Date Collected: 11/16/17 09:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/28/17 02:40	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 02:40	1
Styrene	<0.39		1.0	0.39	ug/L			11/28/17 02:40	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 02:40	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/28/17 02:40	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/28/17 02:40	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/28/17 02:40	1
Toluene	<0.15		0.50	0.15	ug/L			11/28/17 02:40	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/28/17 02:40	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/28/17 02:40	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/28/17 02:40	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/28/17 02:40	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/28/17 02:40	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/28/17 02:40	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/28/17 02:40	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/28/17 02:40	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/28/17 02:40	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/28/17 02:40	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/28/17 02:40	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/28/17 02:40	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/28/17 02:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/28/17 02:40*	*1*
Dibromofluoromethane	*94*		*75 - 120*		*11/28/17 02:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*11/28/17 02:40*	*1*
Toluene-d8 (Surr)	*94*		*75 - 120*		*11/28/17 02:40*	*1*

Client Sample ID: MW-17D

Date Collected: 11/16/17 11:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-6
Matrix: Ground 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			11/28/17 03:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/28/17 03:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/28/17 03:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/28/17 03:07	1
Bromoform	<0.48		1.0	0.48	ug/L			11/28/17 03:07	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/28/17 03:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/28/17 03:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/28/17 03:07	1
Chloroform	<0.37		2.0	0.37	ug/L			11/28/17 03:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/28/17 03:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/28/17 03:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/28/17 03:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/28/17 03:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/28/17 03:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/28/17 03:07	1

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Client Sample ID: MW-17D
Date Collected: 11/16/17 11:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/28/17 03:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/28/17 03:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/28/17 03:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/28/17 03:07	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/28/17 03:07	1
1,1-Dichloroethane	**13**		1.0	0.41	ug/L			11/28/17 03:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
1,1-Dichloroethene	**63**		1.0	0.39	ug/L			11/28/17 03:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/28/17 03:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/28/17 03:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/28/17 03:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/28/17 03:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/28/17 03:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/28/17 03:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/28/17 03:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/28/17 03:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/28/17 03:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/28/17 03:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/28/17 03:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 03:07	1
Styrene	<0.39		1.0	0.39	ug/L			11/28/17 03:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 03:07	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/28/17 03:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/28/17 03:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/28/17 03:07	1
Toluene	<0.15		0.50	0.15	ug/L			11/28/17 03:07	1
trans-1,2-Dichloroethene	**2.8**		1.0	0.35	ug/L			11/28/17 03:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/28/17 03:07	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/28/17 03:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/28/17 03:07	1
1,1,1-Trichloroethane	**97**		1.0	0.38	ug/L			11/28/17 03:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/28/17 03:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/28/17 03:07	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/28/17 03:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/28/17 03:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/28/17 03:07	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/28/17 03:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/28/17 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/28/17 03:07*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/28/17 03:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*11/28/17 03:07*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/28/17 03:07*	*1*

Client Sample ID: MW-17D

Date Collected: 11/16/17 11:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**510**		10	4.1	ug/L			11/28/17 03:34	10
Trichloroethene	**650**		5.0	1.6	ug/L			11/28/17 03:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/28/17 03:34*	*10*
Dibromofluoromethane	*94*		*75 - 120*		*11/28/17 03:34*	*10*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*		*11/28/17 03:34*	*10*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/28/17 03:34*	*10*

Client Sample ID: MW-15D

Date Collected: 11/16/17 12:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			11/28/17 04:03	2
Bromobenzene	<0.71		2.0	0.71	ug/L			11/28/17 04:03	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			11/28/17 04:03	2
Bromodichloromethane	<0.74		2.0	0.74	ug/L			11/28/17 04:03	2
Bromoform	<0.97		2.0	0.97	ug/L			11/28/17 04:03	2
Bromomethane	<1.6		4.0	1.6	ug/L			11/28/17 04:03	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			11/28/17 04:03	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			11/28/17 04:03	2
Chloroethane	<1.0		2.0	1.0	ug/L			11/28/17 04:03	2
Chloroform	<0.74		4.0	0.74	ug/L			11/28/17 04:03	2
Chloromethane	<0.64		2.0	0.64	ug/L			11/28/17 04:03	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			11/28/17 04:03	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			11/28/17 04:03	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			11/28/17 04:03	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			11/28/17 04:03	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			11/28/17 04:03	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			11/28/17 04:03	2
Dibromomethane	<0.54		2.0	0.54	ug/L			11/28/17 04:03	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			11/28/17 04:03	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			11/28/17 04:03	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			11/28/17 04:03	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			11/28/17 04:03	2
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			11/28/17 04:03	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			11/28/17 04:03	2
1,1-Dichloroethene	**2.2**		2.0	0.78	ug/L			11/28/17 04:03	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			11/28/17 04:03	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			11/28/17 04:03	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			11/28/17 04:03	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			11/28/17 04:03	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			11/28/17 04:03	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			11/28/17 04:03	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			11/28/17 04:03	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			11/28/17 04:03	2
Methylene Chloride	<3.3		10	3.3	ug/L			11/28/17 04:03	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			11/28/17 04:03	2

Client Sample ID: MW-15D

Date Collected: 11/16/17 12:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-7

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<0.67		2.0	0.67	ug/L			11/28/17 04:03	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			11/28/17 04:03	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			11/28/17 04:03	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			11/28/17 04:03	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			11/28/17 04:03	2
Styrene	<0.77		2.0	0.77	ug/L			11/28/17 04:03	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			11/28/17 04:03	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			11/28/17 04:03	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			11/28/17 04:03	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			11/28/17 04:03	2
Toluene	<0.30		1.0	0.30	ug/L			11/28/17 04:03	2
trans-1,2-Dichloroethene	**2.5**		2.0	0.70	ug/L			11/28/17 04:03	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			11/28/17 04:03	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			11/28/17 04:03	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			11/28/17 04:03	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			11/28/17 04:03	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			11/28/17 04:03	2
Trichloroethene	**200**		1.0	0.33	ug/L			11/28/17 04:03	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			11/28/17 04:03	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			11/28/17 04:03	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			11/28/17 04:03	2
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			11/28/17 04:03	2
Vinyl chloride	<0.41		1.0	0.41	ug/L			11/28/17 04:03	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			11/28/17 04:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/28/17 04:03*	*2*
Dibromofluoromethane	*95*		*75 - 120*		*11/28/17 04:03*	*2*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*		*11/28/17 04:03*	*2*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/28/17 04:03*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1100**		20	8.2	ug/L			11/28/17 04:31	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*		*11/28/17 04:31*	*20*
Dibromofluoromethane	*93*		*75 - 120*		*11/28/17 04:31*	*20*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*11/28/17 04:31*	*20*
Toluene-d8 (Surr)	*93*		*75 - 120*		*11/28/17 04:31*	*20*

Client Sample ID: MW-15D Dup

Date Collected: 11/16/17 12:55
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.29		1.0	0.29	ug/L			11/28/17 04:58	2
Bromobenzene	<0.71		2.0	0.71	ug/L			11/28/17 04:58	2
Bromochloromethane	<0.86		2.0	0.86	ug/L			11/28/17 04:58	2

Client Sample ID: MW-15D Dup
Date Collected: 11/16/17 12:55
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.74		2.0	0.74	ug/L			11/28/17 04:58	2
Bromoform	<0.97		2.0	0.97	ug/L			11/28/17 04:58	2
Bromomethane	<1.6		4.0	1.6	ug/L			11/28/17 04:58	2
Carbon tetrachloride	<0.77		2.0	0.77	ug/L			11/28/17 04:58	2
Chlorobenzene	<0.77		2.0	0.77	ug/L			11/28/17 04:58	2
Chloroethane	<1.0		2.0	1.0	ug/L			11/28/17 04:58	2
Chloroform	<0.74		4.0	0.74	ug/L			11/28/17 04:58	2
Chloromethane	<0.64		2.0	0.64	ug/L			11/28/17 04:58	2
2-Chlorotoluene	<0.63		2.0	0.63	ug/L			11/28/17 04:58	2
4-Chlorotoluene	<0.70		2.0	0.70	ug/L			11/28/17 04:58	2
cis-1,3-Dichloropropene	<0.83		2.0	0.83	ug/L			11/28/17 04:58	2
Dibromochloromethane	<0.98		2.0	0.98	ug/L			11/28/17 04:58	2
1,2-Dibromo-3-Chloropropane	<4.0		10	4.0	ug/L			11/28/17 04:58	2
1,2-Dibromoethane	<0.77		2.0	0.77	ug/L			11/28/17 04:58	2
Dibromomethane	<0.54		2.0	0.54	ug/L			11/28/17 04:58	2
1,2-Dichlorobenzene	<0.67		2.0	0.67	ug/L			11/28/17 04:58	2
1,3-Dichlorobenzene	<0.80		2.0	0.80	ug/L			11/28/17 04:58	2
1,4-Dichlorobenzene	<0.73		2.0	0.73	ug/L			11/28/17 04:58	2
Dichlorodifluoromethane	<1.3		4.0	1.3	ug/L			11/28/17 04:58	2
1,1-Dichloroethane	<0.82		2.0	0.82	ug/L			11/28/17 04:58	2
1,2-Dichloroethane	<0.78		2.0	0.78	ug/L			11/28/17 04:58	2
1,1-Dichloroethene	**2.2**		2.0	0.78	ug/L			11/28/17 04:58	2
1,2-Dichloropropane	<0.86		2.0	0.86	ug/L			11/28/17 04:58	2
1,3-Dichloropropane	<0.72		2.0	0.72	ug/L			11/28/17 04:58	2
2,2-Dichloropropane	<0.89		2.0	0.89	ug/L			11/28/17 04:58	2
1,1-Dichloropropene	<0.59		2.0	0.59	ug/L			11/28/17 04:58	2
Ethylbenzene	<0.37		1.0	0.37	ug/L			11/28/17 04:58	2
Hexachlorobutadiene	<0.89		2.0	0.89	ug/L			11/28/17 04:58	2
Isopropylbenzene	<0.77		2.0	0.77	ug/L			11/28/17 04:58	2
Isopropyl ether	<0.55		2.0	0.55	ug/L			11/28/17 04:58	2
Methylene Chloride	<3.3		10	3.3	ug/L			11/28/17 04:58	2
Methyl tert-butyl ether	<0.79		2.0	0.79	ug/L			11/28/17 04:58	2
Naphthalene	<0.67		2.0	0.67	ug/L			11/28/17 04:58	2
n-Butylbenzene	<0.78		2.0	0.78	ug/L			11/28/17 04:58	2
N-Propylbenzene	<0.83		2.0	0.83	ug/L			11/28/17 04:58	2
p-Isopropyltoluene	<0.72		2.0	0.72	ug/L			11/28/17 04:58	2
sec-Butylbenzene	<0.80		2.0	0.80	ug/L			11/28/17 04:58	2
Styrene	<0.77		2.0	0.77	ug/L			11/28/17 04:58	2
tert-Butylbenzene	<0.80		2.0	0.80	ug/L			11/28/17 04:58	2
1,1,1,2-Tetrachloroethane	<0.92		2.0	0.92	ug/L			11/28/17 04:58	2
1,1,2,2-Tetrachloroethane	<0.80		2.0	0.80	ug/L			11/28/17 04:58	2
Tetrachloroethene	<0.74		2.0	0.74	ug/L			11/28/17 04:58	2
Toluene	<0.30		1.0	0.30	ug/L			11/28/17 04:58	2
trans-1,2-Dichloroethene	**2.1**		2.0	0.70	ug/L			11/28/17 04:58	2
trans-1,3-Dichloropropene	<0.72		2.0	0.72	ug/L			11/28/17 04:58	2
1,2,3-Trichlorobenzene	<0.92		2.0	0.92	ug/L			11/28/17 04:58	2
1,2,4-Trichlorobenzene	<0.68		2.0	0.68	ug/L			11/28/17 04:58	2
1,1,1-Trichloroethane	<0.76		2.0	0.76	ug/L			11/28/17 04:58	2
1,1,2-Trichloroethane	<0.70		2.0	0.70	ug/L			11/28/17 04:58	2

Client Sample ID: MW-15D Dup

Date Collected: 11/16/17 12:55
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-8

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**210**		1.0	0.33	ug/L			11/28/17 04:58	2
Trichlorofluoromethane	<0.85		2.0	0.85	ug/L			11/28/17 04:58	2
1,2,3-Trichloropropane	<0.83		2.0	0.83	ug/L			11/28/17 04:58	2
1,2,4-Trimethylbenzene	<0.72		2.0	0.72	ug/L			11/28/17 04:58	2
1,3,5-Trimethylbenzene	<0.51		2.0	0.51	ug/L			11/28/17 04:58	2
Vinyl chloride	<0.41		1.0	0.41	ug/L			11/28/17 04:58	2
Xylenes, Total	<0.44		2.0	0.44	ug/L			11/28/17 04:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*11/28/17 04:58*	*2*
Dibromofluoromethane	*95*		*75 - 120*		*11/28/17 04:58*	*2*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*11/28/17 04:58*	*2*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/28/17 04:58*	*2*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1200**		20	8.2	ug/L			11/28/17 05:25	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/28/17 05:25*	*20*
Dibromofluoromethane	*96*		*75 - 120*		*11/28/17 05:25*	*20*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*11/28/17 05:25*	*20*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/28/17 05:25*	*20*

Client Sample ID: Trip Blank

Date Collected: 11/15/17 00:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-9

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			11/28/17 05:53	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/28/17 05:53	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/28/17 05:53	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/28/17 05:53	1
Bromoform	<0.48		1.0	0.48	ug/L			11/28/17 05:53	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/28/17 05:53	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/28/17 05:53	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/28/17 05:53	1
Chloroform	<0.37		2.0	0.37	ug/L			11/28/17 05:53	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/28/17 05:53	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/28/17 05:53	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/28/17 05:53	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/28/17 05:53	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/28/17 05:53	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/28/17 05:53	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/28/17 05:53	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/28/17 05:53	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/28/17 05:53	1

Client Sample ID: Trip Blank
Date Collected: 11/15/17 00:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/28/17 05:53	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/28/17 05:53	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/28/17 05:53	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/28/17 05:53	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/28/17 05:53	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/28/17 05:53	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/28/17 05:53	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/28/17 05:53	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/28/17 05:53	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/28/17 05:53	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/28/17 05:53	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/28/17 05:53	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/28/17 05:53	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/28/17 05:53	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/28/17 05:53	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 05:53	1
Styrene	<0.39		1.0	0.39	ug/L			11/28/17 05:53	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/28/17 05:53	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/28/17 05:53	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/28/17 05:53	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/28/17 05:53	1
Toluene	<0.15		0.50	0.15	ug/L			11/28/17 05:53	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/28/17 05:53	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/28/17 05:53	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/28/17 05:53	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/28/17 05:53	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/28/17 05:53	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/28/17 05:53	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/28/17 05:53	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/28/17 05:53	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/28/17 05:53	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/28/17 05:53	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/28/17 05:53	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/28/17 05:53	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/28/17 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*		*11/28/17 05:53*	*1*
Dibromofluoromethane	*95*		*75 - 120*		*11/28/17 05:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*11/28/17 05:53*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*11/28/17 05:53*	*1*

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

GC/MS VOA

Analysis Batch: 411526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-137518-1	MW-10S	Total/NA	Ground Water	8260B	
500-137518-2	MW-10I	Total/NA	Ground Water	8260B	
500-137518-3	MW-14SR	Total/NA	Ground Water	8260B	
500-137518-3 - DL	MW-14SR	Total/NA	Ground Water	8260B	
500-137518-4	MW-14IR	Total/NA	Ground Water	8260B	
500-137518-4 - DL	MW-14IR	Total/NA	Ground Water	8260B	
500-137518-5	MW-16D	Total/NA	Ground Water	8260B	
500-137518-6	MW-17D	Total/NA	Ground Water	8260B	
500-137518-6 - DL	MW-17D	Total/NA	Ground Water	8260B	
500-137518-7	MW-15D	Total/NA	Ground Water	8260B	
500-137518-7 - DL	MW-15D	Total/NA	Ground Water	8260B	
500-137518-8	MW-15D Dup	Total/NA	Ground Water	8260B	
500-137518-8 - DL	MW-15D Dup	Total/NA	Ground Water	8260B	
500-137518-9	Trip Blank	Total/NA	Water	8260B	
MB 500-411526/6	Method Blank	Total/NA	Water	8260B	
LCS 500-411526/30	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

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

Matrix: Ground Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-137518-1	MW-10S	93	92	90	93
500-137518-2	MW-10I	93	93	94	93
500-137518-3 - DL	MW-14SR	92	93	92	94
500-137518-3	MW-14SR	94	92	91	94
500-137518-4	MW-14IR	94	93	90	94
500-137518-4 - DL	MW-14IR	95	94	93	94
500-137518-5	MW-16D	95	94	92	94
500-137518-6	MW-17D	95	95	93	93
500-137518-6 - DL	MW-17D	94	94	91	93
500-137518-7	MW-15D	93	95	94	93
500-137518-7 - DL	MW-15D	95	93	93	93
500-137518-8	MW-15D Dup	93	95	93	92
500-137518-8 - DL	MW-15D Dup	94	96	95	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-137518-9	Trip Blank	94	95	92	95
LCS 500-411526/30	Lab Control Sample	83	90	86	95
MB 500-411526/6	Method Blank	92	93	92	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 500-411526/6
Matrix: Water
Analysis Batch: 411526

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			11/27/17 23:25	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/27/17 23:25	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/27/17 23:25	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/27/17 23:25	1
Bromoform	<0.48		1.0	0.48	ug/L			11/27/17 23:25	1
Bromomethane	<0.80		2.0	0.80	ug/L			11/27/17 23:25	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/27/17 23:25	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/27/17 23:25	1
Chloroform	<0.37		2.0	0.37	ug/L			11/27/17 23:25	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/27/17 23:25	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/27/17 23:25	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/27/17 23:25	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/27/17 23:25	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/27/17 23:25	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/27/17 23:25	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/27/17 23:25	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/27/17 23:25	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/27/17 23:25	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/27/17 23:25	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/27/17 23:25	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/L			11/27/17 23:25	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/27/17 23:25	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/27/17 23:25	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/27/17 23:25	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/27/17 23:25	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/27/17 23:25	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/27/17 23:25	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/27/17 23:25	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/27/17 23:25	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/27/17 23:25	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/27/17 23:25	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/27/17 23:25	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/27/17 23:25	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/27/17 23:25	1
Styrene	<0.39		1.0	0.39	ug/L			11/27/17 23:25	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/27/17 23:25	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/27/17 23:25	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/27/17 23:25	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/27/17 23:25	1
Toluene	<0.15		0.50	0.15	ug/L			11/27/17 23:25	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/27/17 23:25	1

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

Lab Sample ID: MB 500-411526/6
Matrix: Water
Analysis Batch: 411526

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			11/27/17 23:25	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/27/17 23:25	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/27/17 23:25	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/27/17 23:25	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/27/17 23:25	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/27/17 23:25	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/27/17 23:25	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/L			11/27/17 23:25	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/27/17 23:25	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/27/17 23:25	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			11/27/17 23:25	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/27/17 23:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*		*11/27/17 23:25*	*1*
Dibromofluoromethane	*93*		*75 - 120*		*11/27/17 23:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*11/27/17 23:25*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*11/27/17 23:25*	*1*

Lab Sample ID: LCS 500-411526/30
Matrix: Water
Analysis Batch: 411526

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	51.6		ug/L		103	70 - 120
Bromobenzene	50.0	49.0		ug/L		98	70 - 122
Bromochloromethane	50.0	50.5		ug/L		101	65 - 122
Bromodichloromethane	50.0	49.5		ug/L		99	69 - 120
Bromoform	50.0	54.3		ug/L		109	56 - 132
Bromomethane	50.0	42.8		ug/L		86	40 - 130
Carbon tetrachloride	50.0	50.6		ug/L		101	65 - 122
Chlorobenzene	50.0	52.3		ug/L		105	70 - 120
Chloroethane	50.0	34.1		ug/L		68	45 - 127
Chloroform	50.0	47.8		ug/L		96	70 - 120
Chloromethane	50.0	47.4		ug/L		95	54 - 147
2-Chlorotoluene	50.0	47.7		ug/L		95	70 - 125
4-Chlorotoluene	50.0	48.1		ug/L		96	68 - 124
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
cis-1,3-Dichloropropene	50.0	50.0		ug/L		100	64 - 127
Dibromochloromethane	50.0	51.3		ug/L		103	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/L		93	56 - 123
1,2-Dibromoethane	50.0	50.9		ug/L		102	70 - 125
Dibromomethane	50.0	50.7		ug/L		101	70 - 120
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 125
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 125
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 120
Dichlorodifluoromethane	50.0	59.0		ug/L		118	40 - 150
1,1-Dichloroethane	50.0	49.9		ug/L		100	70 - 125

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

Lab Sample ID: LCS 500-411526/30
Matrix: Water
Analysis Batch: 411526

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	48.8		ug/L		98	68 - 127
1,1-Dichloroethene	50.0	49.6		ug/L		99	67 - 122
1,2-Dichloropropane	50.0	51.1		ug/L		102	67 - 130
1,3-Dichloropropane	50.0	50.6		ug/L		101	62 - 136
2,2-Dichloropropane	50.0	49.3		ug/L		99	58 - 129
1,1-Dichloropropene	50.0	51.4		ug/L		103	70 - 121
Ethylbenzene	50.0	51.6		ug/L		103	70 - 120
Hexachlorobutadiene	50.0	62.8		ug/L		126	51 - 150
Isopropylbenzene	50.0	46.9		ug/L		94	70 - 126
Methylene Chloride	50.0	50.0		ug/L		100	69 - 125
Methyl tert-butyl ether	50.0	49.9		ug/L		100	70 - 120
Naphthalene	50.0	53.6		ug/L		107	59 - 130
n-Butylbenzene	50.0	50.6		ug/L		101	68 - 125
N-Propylbenzene	50.0	47.4		ug/L		95	69 - 127
p-Isopropyltoluene	50.0	50.2		ug/L		100	70 - 125
sec-Butylbenzene	50.0	48.1		ug/L		96	70 - 123
Styrene	50.0	52.7		ug/L		105	70 - 120
tert-Butylbenzene	50.0	48.1		ug/L		96	70 - 121
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	67 - 127
Tetrachloroethene	50.0	57.2		ug/L		114	70 - 128
Toluene	50.0	54.4		ug/L		109	70 - 125
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	62 - 128
1,2,3-Trichlorobenzene	50.0	61.4		ug/L		123	55 - 140
1,2,4-Trichlorobenzene	50.0	60.4		ug/L		121	66 - 127
1,1,1-Trichloroethane	50.0	50.2		ug/L		100	70 - 125
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	70 - 122
Trichloroethene	50.0	51.6		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	48.3		ug/L		97	70 - 126
1,2,3-Trichloropropane	50.0	44.8		ug/L		90	50 - 133
1,2,4-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 123
1,3,5-Trimethylbenzene	50.0	48.6		ug/L		97	70 - 123
Vinyl chloride	50.0	56.1		ug/L		112	64 - 126
Xylenes, Total	100	103		ug/L		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*72 - 124*
Dibromofluoromethane	*90*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*86*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Client Sample ID: MW-10S
Date Collected: 11/15/17 13:20
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/27/17 23:53	EMA	TAL CHI

Client Sample ID: MW-10I
Date Collected: 11/15/17 13:40
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-2
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/28/17 00:20	EMA	TAL CHI

Client Sample ID: MW-14SR
Date Collected: 11/15/17 14:30
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-3
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/28/17 00:49	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	10	411526	11/28/17 01:17	EMA	TAL CHI

Client Sample ID: MW-14IR
Date Collected: 11/15/17 14:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/28/17 01:45	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	10	411526	11/28/17 02:12	EMA	TAL CHI

Client Sample ID: MW-16D
Date Collected: 11/16/17 09:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-5
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/28/17 02:40	EMA	TAL CHI

Client Sample ID: MW-17D
Date Collected: 11/16/17 11:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/28/17 03:07	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	10	411526	11/28/17 03:34	EMA	TAL CHI

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Client Sample ID: MW-15D

Date Collected: 11/16/17 12:50
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-7
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	411526	11/28/17 04:03	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	411526	11/28/17 04:31	EMA	TAL CHI

Client Sample ID: MW-15D Dup

Date Collected: 11/16/17 12:55
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-8
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	411526	11/28/17 04:58	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	411526	11/28/17 05:25	EMA	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 11/15/17 00:00
Date Received: 11/18/17 10:05

Lab Sample ID: 500-137518-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	411526	11/28/17 05:53	EMA	TAL CHI

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Pentair Deerfield - 117-7469001.02

TestAmerica Job ID: 500-137518-1

Laboratory: TestAmerica Chicago

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-137518

Chain of Custody Number:

Page 1 of 2

Temperature °C of Cooler: 2.9

Report To (optional)
Contact: MARK MANTHEY
Company: TETRA TECH
Address: 475 N. CORPORATE DR. SUITE 100
Address: BROOKFIELD, WI. 53045
Phone: (262) 792-1282
Fax:
E-Mail:

Bill To (optional)
Contact: SAME AS REPORT TO:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Client: TETRA TECH
Client Project #: 117-7469001.02
Project Name: PENTAIR DEERFIELD
Project Location/State: DEERFIELD, WI.
Lab Project #:
Sampler: TODD M. THOMSON
Lab PM: SANDIE FREDRICK

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date (20 17)	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs 8260	Comments
1		MW-10S	11-15	13:20	3	GW	1	✓	
2		MW-10I	11-15	13:40	3			✓	
3		MW-14SR	11-15	14:30	3			✓	
4		MW-14IR	11-15	14:50	3			✓	500-137518 COC
5		MW-16D	11-16	09:50	3			✓	
6		MW-17D	11-16	11:00	3			✓	
7		MW-15D	11-16	12:50	3			✓	
8		MW-15D DUP	11-16	12:55	3	V		✓	
9		TRIP BLANK	—	—	1	DI		✓	LAB PREPARED

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date: STANDARD

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TETRA TECH	11-17-17	15:00		TA	11-17-17	1500
	TA	11-17-17	1600		TA CHI	11/18/17	1005

Lab Courier:
Shipped:
Hand Delivered: BROOKFIELD

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

11/28/2017

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Report To (optional)		Bill To (optional)	
Contact:	MARK MANTHEY	Contact:	Same As Report To
Company:	TETRA TECH	Company:	
Address:	175 N. CORPORATE DR. SUITE 100	Address:	
Address:	BROOKFIELD, WI. 53045	Address:	
Phone:	(262) 792-1282	Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	

Lab Job #: 500-137518
Chain of Custody Number:
Page 2 of 2
Temperature °C of Cooler: 2.9

Client: TETRA TECH
Client Project #: 117-7418001.02
Project Name: PENTAIR DEERFIELD
Project Location/State: DEERFIELD, WI.
Lab Project #:
Sampler: TODD M. THOMSON
Lab PM: SANDIE FREDRICK

Preservative: 1 →
Parameter: TCE; 1,1,1-TCA; 1,2-TCA; VINYL CHLORIDE; + BETX; BY 8260B

Lab ID	MS/MSD	Sample ID	Sampling Date (2017)	Sampling Time	# of Containers	Matrix	TCE	1,1,1-TCA	1,2-TCA	VINYL CHLORIDE	+ BETX				Comments
10		INFLUENT	11-15	15:25	3	GW	✓	✓	✓	✓	✓				
11		EFFLUENT	11-15	15:35	3	GW	✓	✓	✓	✓	✓				

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days ______ Other
Requested Due Date: STANDARD

Sample Disposal
[ ] Return to Client [/] Disposal by Lab [ ] Archive for ____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TETRA TECH	11-17-17	15:00	[signature]	TA	11-17-17	1500
[signature]	TA	11-17-17	1600	[signature]	TALHI	11/18/17	1005

Lab Courier:
Shipped:
Hand Delivered: BROOKFIELD

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1208)

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 500-137518-1

Login Number: 137518
List Number: 1
Creator: Sanchez, Ariel M

List Source: 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	2.9
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").	False	Refer to Job Narrative for details.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	