Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342
USA
T: 937-859-3600
www.woodplc.com

08 January 2020

Mr. Joshua Keller
Environmental Manager
Indiana Department of Environmental Management
100 North Senate Ave.
Indianapolis, IN 46204-2251

RE: Report of the Third Groundwater Stability Assessment Event
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana
Facility Cleanup ID 7100149
Wood Project Number 3359-15-1040

Dear Mr. Keller:

Enclosed are two copies of the Report of the Third Groundwater Stability Assessment Event performed at the TORX Facility located in Rochester, Indiana prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood). The work was completed as described in the Remediation Work Plan dated 24 June 2014 and the Groundwater Stability Assessment correspondence dated 16 July 2019.

This report details the results of the third groundwater stability assessment monitoring event, which occurred in August 2019. Based on the results of the laboratory analyses performed on the groundwater samples collected from the Groundwater Stability Assessment monitoring well network, the CVOC concentrations in the messenger (located down-gradient of the source area), perimeter of compliance (located down-gradient of the messenger wells), and downgradient monitoring wells (used to assess the leading down-gradient edge of the treatment zone) continue to remain near to slightly above the laboratory reporting limit in the majority of the wells. Until a statistically significant number of Stability Assessment data points is obtained, detailed analysis of the data will be limited to general observations.

The fourth stability groundwater monitoring event was completed at the Site during the week of 25 November 2019. If you have any questions or comments following your review of this report, please call our office at 937-859-3600.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.

Paul J. Stork
Project Manager

K. Joe Deatherage, PE
Senior Engineer

Enclosure

cc: Jamison Schiff, Textron, Inc.

REPORT OF THE THIRD GROUNDWATER STABILITY ASSESSMENT MONITORING EVENT

Former TORX Facility
4366 North Old US Highway 31
Rochester, Indiana

Prepared for:

Textron Inc.
40 Westminster Street
Providence, RI 02903

Prepared by:

Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342

January 2020

Project No. 3359-15-1040

IMPORTANT NOTICE

This report was prepared exclusively for Textron, Inc. by Wood Environment & Infrastructure Solutions, Inc. (Wood). The quality of information, conclusions and estimates contained herein is consistent with the level of effort involved in Wood's services and based on: i) information available at the time of preparation, ii) data supplied by outside sources and iii) the assumptions, conditions and qualifications set forth in this report. This report is intended to be used by Textron, Inc. only, subject to the terms and conditions of its contract with Wood. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

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ACRONYMS

CVOC	chlorinated volatile organic compounds
DCE	dichloroethene
DO	dissolved oxygen
IDEM	Indiana Department of Environmental Management
ISCR	In-situ Chemical Reduction
µg/L	micrograms per liter
ORP	oxygen reduction potential
QAPP	Quality Assurance Project Plan
RWP	Remediation Work Plan
TCE	trichloroethene
Site	former TORX facility
VOC	Volatile organic compound
Wood	Wood Environment & Infrastructure Solutions, Inc.

1.0 INTRODUCTION

Wood Environment & Infrastructure Solutions, Inc. (Wood), has prepared this report to document the findings from the third groundwater stability assessment monitoring event. This third groundwater stability assessment event includes results from quarterly groundwater stability monitoring and semi-annual treatment area groundwater monitoring. The assessment monitoring is associated with the implemented In-Situ Chemical Reduction (ISCR) and Enhanced Reductive Dechlorination remedies for groundwater containing chlorinated volatile organic compounds (CVOCs) at and in the vicinity of the former TORX Facility (now operated by Acument) located at 4366 North Old US Highway 31 in Rochester, Indiana (Site). A Site location map is presented as **Figure 1**.

2.0 BACKGROUND

Wood was retained by Textron, Inc. to conduct remedial injection activities at the former TORX facility to treat groundwater containing CVOCs. A Remediation Work Plan (RWP) was prepared in June 2014 and submitted to the Indiana Department of Environmental Management (IDEM) and was subsequently approved by IDEM. The RWP guided the remedial activities implemented at the Site. The overall remedial approach involved treating the portion of the source area near the Western Pond behind (west of) the facility using ISCR technology, and stimulating biologically mediated reductive dechlorination at the remainder of the source area west of the building, beneath the manufacturing building, and in most of the downgradient plume. Full-scale remediation injection activities commenced in 2015. Additional “polishing” injections were performed in 2016 and 2017. The treatment zones, arrays, and monitoring well locations are shown on **Figure 2**. Details of the remedial actions and subsequent performance groundwater monitoring events are provided in numerous reports on file with IDEM.

As detailed in the RWP, the performance of the remediation of the CVOCs in groundwater at the site has been monitored on a regular basis through the implementation of the Performance Groundwater Monitoring Program. The results of the Performance Groundwater Monitoring demonstrated significant reductions of CVOCs in groundwater post remediation. Because of the success of the remedial effort in reducing the

concentrations of CVOCs at the Site, the groundwater monitoring has been transitioned from performance monitoring to stability monitoring. Details of the groundwater stability assessment monitoring program are described in a correspondence submitted to IDEM entitled, *Groundwater Stability Assessment, TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana, Facility Cleanup ID 7100149*, 16 July 2019, Wood.

This report documents the third groundwater stability assessment monitoring event that has been conducted at the Site following completion of the full-scale remediation and the performance monitoring phase.

3.0 GROUNDWATER STABILITY ASSESSMENT MONITORING

Wood conducted the third quarterly groundwater stability assessment monitoring and second semi-annual treatment area evaluation monitoring event at the Site in August 2019. The groundwater stability assessment monitoring well locations and treatment area monitoring well locations are shown on **Figure 3**.

3.1 Scope of Work

As part of the groundwater stability assessment monitoring event, Wood collected groundwater samples from 30 monitoring wells located within and downgradient of the treatment zones. Of the 30 monitoring wells, 12 wells are designated quarterly stability monitoring wells and 18 are semi-annual treatment area monitoring wells. For most monitoring wells, groundwater was purged using low-flow sampling techniques. Certain smaller diameter wells [MW-68(32) and MW-72(32)] were purged by bailing. Field water quality parameters were monitored during purging. Groundwater was sampled once field water quality parameters had stabilized. Groundwater samples were analyzed for volatile organic compounds (VOCs). Separate from the stability assessment, a subset of wells was also analyzed for dissolved gases (methane, ethane, and ethene).

3.2 Field Activities

On 12 August 2019, prior to commencing groundwater sampling, depth to groundwater measurements were collected, and groundwater elevations were calculated using the monitoring well casing elevations previously determined by a registered surveyor (**Table**

1). Groundwater contour maps of the treatment areas were prepared for the shallow overburden zone (**Figure 4**) and intermediate overburden zone (**Figure 5**).

Groundwater samples were collected from the stability assessment monitoring wells, identified on **Table 1**, between 19 August 2019 and 22 August 2019. The wells except MW-68(32) and MW-72(32) were purged and sampled using a pneumatic powered bladder pump. Prior to sample collection, groundwater was purged from the wells using a low-flow procedure. Groundwater field parameters including pH, temperature, conductivity, oxygen reduction potential (ORP), dissolved oxygen (DO), and turbidity, as well as, groundwater elevation, were measured approximately every 5 minutes until at least three sequential readings showed stabilization, i.e., +/- 0.1 for pH, +/- 10 millivolts for ORP, +/- 10 Nephelometric Turbidity Units for turbidity, and +/- 10% for DO. Upon achieving stabilization, groundwater samples were collected directly from the pump discharge tubing. Copies of the field sample collection logs are presented in **Appendix A**. A summary of the final field measurements is presented on **Table 2**.

The 1.5-inch diameter monitoring wells, MW-68(32) and MW-72(32), located inside the Acument building were purged and sampled using disposable 0.75-inch diameter polyethylene bailers. Prior to sample collection, at least three well volumes of groundwater were removed from each well. Groundwater samples were collected directly from the bailers. Groundwater field parameters including pH, temperature, conductivity, ORP, DO, and turbidity were measured during purging and recorded on sampling forms presented in **Appendix A**.

Groundwater samples were collected into laboratory-supplied, pre-preserved vials and labeled with the sample information. Quality control samples including equipment blanks and trip blanks were also submitted. Equipment blanks were collected by pouring deionized water through the decontaminated pump and into the sampling container. Trip blanks were prepared by the laboratory and accompanied each shipment of VOC samples during transport.

Following sample collection, the sample containers were placed on ice in coolers and shipped under chain of custody to ALS Environmental Laboratory in Holland, Michigan for VOC analysis by United States Environmental Protection Agency Method 8260B.

Samples for dissolved gas analyses were shipped under chain-of-custody to Microseeps, a division of Pace Analytical, in Pittsburgh, Pennsylvania, for analysis by Method AM20GAX.

Sampling pumps were decontaminated between wells using a liquinox-water wash, potable water rinse, and distilled water rinse. Dedicated sampling tubing was used to purge and sample each well, and new disposable bailers were used for sampling monitoring wells MW-68(32) and MW-72(32). Disposable equipment was changed out between each well.

4.0 DATA EVALUATION

The results of the laboratory analyses are presented on **Tables 3 and 4** which also include results from previous groundwater stability monitoring events. The measured field parameters referenced in Section 3.0 are included in **Table 2**. A summary of the results of the CVOC analyses performed on samples collected from the quarterly stability monitoring wells is shown on **Figure 6**, while a summary of the results of the semi-annual treatment area monitoring wells is presented on **Figure 7**. Copies of the laboratory reports and chain-of-custodies are presented in **Appendix B**.

Baseline concentration data is included on **Tables 3 and 4**. The baseline monitoring event occurred in October 2018, except for MW-59(46), MW-25(82), MW-27(18), OW-6(38), OW-6(63); for these five wells, the baseline monitoring event was the annual sampling event that occurred in July 2018. Although individual increases of CVOCs may be periodically observed at certain monitoring well locations, the entire plume mass will be considered when evaluating the stability of the plume.

4.1 Quarterly Stability Monitoring Results

The CVOC concentrations in the messenger wells [located down-gradient of the source area, , MW-6C, OW-1(39), MW-14, OW-2(33), OW-2(53)], perimeter of compliance [located down-gradient of the messenger wells, MW-17, MW-26(17.5), MW-26(28.8), MW-26(58.2), MW-27(18)], and downgradient monitoring wells [used to assess the leading down-gradient edge of the treatment zone, OW-6(38) and OW-6(63)] continue to remain near to slightly above the laboratory reporting limit in the majority of the wells. Some increases in

contaminant concentrations relative to baseline were observed in the treatment area monitoring wells. Until a statistically significant number of Stability Assessment data points is obtained, detailed analysis of the data will be limited to general observations.

Messenger wells analyzed as a part of the quarterly stability monitoring event indicate that with the exception of MW-6C and MW-14, the messenger wells were all at or below the reporting limit for the targeted CVOCs. In MW-6C, cis-1,2 dichloroethene (DCE) decreased from 28 micrograms per liter (µg/L) in May 2019 to 4.0 µg/L in August 2019, while vinyl chloride increased slightly from 1.9 µg/L in May 2019 to 2.3 µg/L in August 2019. The concentrations of cis-1,2-DCE and vinyl chloride increased slightly in MW-14 when compared to the May 2019 data.

Perimeter of compliance wells analyzed as a part of the stability monitoring event indicate that with the exception of MW-27(18) and MW-17, the perimeter of compliance wells were slightly above or below reporting limits for the targeted CVOCs. MW-27(18) contained 1.1 ug/L of TCE which increased slightly compared to the May 2019 data, which was below the detection limits. In MW-17, cis-1,2-DCE decreased from 23 µg/L in May 2019 to 20 µg/L in August 2019. In MW-17, trichloroethene (TCE) decreased from 42 µg/L in May 2019 to 39 µg/L in August 2019. In MW-17, vinyl chloride increased from 1.2 µg/L in May 2019 to 1.6 µg/L in August 2019.The current cis-1,2-DCE and TCE concentrations and the contaminant mass in MW-17 are at historical lows.

Consistent with previous stability monitoring results, CVOCs were not detected above the laboratory reporting limits at the down gradient wells.

4.2 Semi-Annual Treatment Area Monitoring Results

The 18 semi-Annual Treatment Area monitoring wells listed in table 1 and analyzed as a part of the stability monitoring event indicate similar or reduced contaminant concentrations relative to the February 2019 sampling event with the exception of MW-68(32). In MW-68(32), cis-1,2-DCE and vinyl chloride increased in concentration relative to the February 2019 sampling event. Monitoring well MW-59(46) is located within the source area zone, and the current CVOC concentrations are well below historic values.

Dissolved gas monitoring included the analysis of methane, ethane and ethene to gauge any continued effects of the remedial efforts. Methane concentrations decreased in all wells sampled for dissolved gases from the February 2019 sampling event. Ethene concentrations increased in MW-72(32) and decreased in the remaining wells relative to the February 2019 sampling event. Ethane concentrations decreased in all wells sampled for dissolved gases relative to the February 2019 sampling event.

4.3 Quality Control Results

The VOC data was validated in general accordance with the Site Quality Assurance Project Plan (QAPP). The data validation included an evaluation of the data quality and a review of the field quality assurance sample results. The data validation report, which includes validation of data from the 2019 Annual groundwater monitoring event and the Stability monitoring event, is included in **Appendix B**. The conclusions of the data validation indicated that certain results required qualification as detailed below.

The laboratory data conformed to the guidelines in the QAPP with a few exceptions. A detail of the exceptions is presented in **Appendix B**. The exceptions include:

- As a result of acetone detection above the method detection limit but below the reporting limit in the trip blank, acetone detections in the same range were qualified non-detect (U). With the exception of samples, ATR-OW6(63)-G082119 and ATR-OW6(63)-G082119R, acetone was not detected in the associated samples and reporting limits were qualified non-detect in ATR-OW6(63)-G082119 and ATR-OW6(63)-G082119R.

- Exceedances of greater than 20% calibration differences were noted for carbon disulfide, 2-hexanone, bromomethane, vinyl chloride, chloroethane, 1,1,2,2-tetrachloroethane and 4-methyl-2-pentanone. These VOCs were not detected in the associated samples and reporting limits were qualified estimated (UJ).

- Percent recovery of carbon disulfide in the laboratory control sample was greater than the upper control limit of 130. Carbon disulfide was no detected in the Stability Monitoring or Treatment Area Evaluation wells.

- Matrix spike/matrix spike duplicate percent recoveries for several compounds including 2-hexanone, bromoform, dibromochloromethane, trans-1,3-dichloropropene and vinyl chloride were outside the QAPP control limits for a subset of results. Percent recoveries for 2-hexanone, bromoform, dibromochloromethane and tracs-1,3-dichloropropene were less than the control limits of 70-130, indicated potential low bias. Reporting limits were qualified estimated (UJ).

In accordance with the Quality Assurance Project Plan, one equipment blank was collected per day from each sampling pump, one field replicate was collected per 20 groundwater samples collected, one matrix spike and matrix spike duplicate were run at a rate of one per 20 samples collected, one field blank for the groundwater monitoring event was collected and submitted, and one trip blank for each cooler containing VOC samples was submitted and analyzed for VOCs.

There was generally good agreement between the VOC concentrations reported in the replicate samples and primary samples. The relative percent difference (RPD) between the primary and replicate results met the RPD goal of 25% or less for all detected COCs.

VOCs were not detected in the equipment blank samples, trip blank samples, or the field blank sample.

5.0 UPCOMING ACTIVITES

The fourth groundwater stability assessment monitoring event was completed at the Site during the week of 25 November 2019, and the results from that event will be presented in the fourth Groundwater Stability Assessment Monitoring Report.

The fifth quarterly groundwater stability assessment monitoring event will occur in February 2020. The February 2020 stability assessment monitoring event will also include the semi-annual monitoring wells.

TABLES

Table 1
Surveyed Elevation Data and Depth to Water for Stability Assessment Monitoring Wells and Monitoring Wells Used for Groundwater Elevation Contour Mapping
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well/Point ID	Date Measured	Top of Casing Elevation[3]	Depth to Water (btoc)[4]	Ground Water Elevation
Stability Assessment Monitoring Wells				
MW-59(29)[2]	02/05/19	799.57	14.55	785.02
	05/16/19		13.23	786.34
	08/12/19		14.18	785.39
MW-59(46)[2]	02/06/19	799.25	14.18	785.07
	05/16/19		12.87	786.38
	08/12/19		13.87	785.38
MW-81(27)[2]	02/05/19	798.34	14.92	783.42
	05/16/19		11.64	786.70
	08/12/19		12.66	785.68
MW-68(32)[2]	02/05/19	809.46	24.67	784.79
	05/16/19		23.27	786.19
	08/12/19		24.28	785.18
MW-72(32)[2]	02/05/19	808.92	24.07	784.85
	05/16/19		22.74	786.18
	08/12/19		23.98	784.94
MW-6C[1]	02/05/19	810.40	25.60	784.80
	05/16/19		24.35	786.05
	08/12/19		25.31	785.09
MW-20(51)[2]	02/05/19	810.41	25.63	784.78
	05/16/19		24.37	786.04
	08/12/19		25.32	785.09
MW-82(58)[2]	02/05/19	807.38	22.60	784.78
	05/16/19		22.38	785.00
	08/12/19		22.35	785.03
OW-1(39)[1]	02/05/19	805.15	20.49	784.66
	05/16/19		19.22	785.93
	08/12/19		20.16	784.99
MW-14[1]	02/05/19	802.70	18.10	784.60
	05/16/19		16.97	785.73
	08/12/19		17.91	784.79
OW-2(33)[1]	02/05/19	805.54	20.89	784.65
	05/16/19		19.72	785.82
	08/12/19		20.68	784.86
OW-2(53)[1]	02/05/19	805.50	20.86	784.64
	05/16/19		19.69	785.81
	08/12/19		20.64	784.86
OW-3(35)[2]	02/05/19	801.72	17.23	784.49
	05/16/19		16.12	785.60
	08/12/19		NM	NM
OW-3(55)[2]	02/05/19	801.66	17.40	784.26
	05/16/19		16.07	785.59
	08/12/19		NM	NM
MW-15[2]	02/05/19	792.90	9.10	783.80
	05/16/19		8.02	784.88
	08/12/19		8.96	783.94

Table 1
Surveyed Elevation Data and Depth to Water for Stability Assessment Monitoring Wells and Monitoring Wells Used for Groundwater Elevation Contour Mapping
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well/Point ID	Date Measured	Top of Casing Elevation[3]	Depth to Water (btoc)[4]	Ground Water Elevation
OW-4(35)[2]	02/05/19	801.35	17.33	784.02
	05/16/19		16.22	785.13
	08/12/19		18.14	783.21
OW-4(54)[2]	02/05/19	801.33	17.23	784.10
	05/16/19		16.12	785.21
	08/12/19		17.04	784.29
MW-17[1]	02/05/19	784.41	2.90	781.51
	05/16/19		1.75	782.66
	08/12/19		2.47	781.94
MW-25(16.4)[2]	02/05/19	791.93	7.79	784.14
	05/16/19		6.76	785.17
	08/12/19		7.64	784.29
MW-25(32.6)[2]	02/06/19	791.92	7.80	784.12
	05/16/19		NM	NM
	08/12/19		7.81	784.11
MW-25(82)[2]	02/06/19	791.93	9.69	782.24
	05/16/19		NM	NM
	08/12/19		9.19	782.74
MW-26(17.5)[1]	02/05/19	792.16	10.25	781.91
	05/16/19		9.27	782.89
	08/12/19		10.06	782.10
MW-26(28.8)[1]	02/05/19	792.14	10.18	781.96
	05/16/19		NM	NM
	08/12/19		9.97	782.17
MW-26(58.2)[1]	02/05/19	792.17	9.70	782.47
	05/16/19		8.54	783.63
	08/12/19		9.38	782.79
MW-27(18)[1]	02/05/19	785.82	4.27	781.55
	05/16/19		NM	NM
	08/12/19		3.92	781.90
OW-5(16)[2]	02/05/19	790.72	8.43	782.29
	05/16/19		7.52	783.20
	08/12/19		8.29	782.43
OW-5(35)[2]	02/05/19	790.76	7.80	782.96
	05/16/19		6.58	784.18
	08/12/19		7.42	783.34
OW-5(44)[2]	02/06/19	790.70	7.52	783.18
	05/16/19		NM	NM
	08/12/19		7.36	783.34
OW-6(38)[1]	02/05/19	789.27	8.57	780.70
	05/16/19		7.36	781.91
	08/12/19		8.13	781.14
OW-6(63)[1]	02/05/19	789.27	7.97	781.30
	05/16/19		6.76	782.51
	08/12/19		7.52	781.75

Table 1
Surveyed Elevation Data and Depth to Water for Stability Assessment Monitoring Wells and Monitoring Wells Used for Groundwater Elevation Contour Mapping
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well/Point ID	Date Measured	Top of Casing Elevation[3]	Depth to Water (btoc)[4]	Ground Water Elevation
Shallow Overburden Wells Used for Groundwater Elevation Contour Mapping				
MW-1	08/12/19	840.48	38.15	802.33
MW-3	08/12/19	805.45	20.16	785.29
MW-5	08/12/19	807.89	20.61	787.28
MW-6C	08/12/19	810.40	25.31	785.09
MW-9C	08/12/19	808.16	23.09	785.07
MW-12	08/12/19	808.46	23.48	784.98
MW-13	08/12/19	806.67	21.69	784.98
MW-14	08/12/19	802.70	17.91	784.79
MW-16	08/12/19	791.18	8.92	782.26
MW-17	08/12/19	784.41	2.47	781.94
MW-20(35)	08/12/19	810.42	25.24	785.18
MW-21(40.2)	08/12/19	810.33	25.49	784.84
MW-23(39.9)	08/12/19	816.67	31.32	785.35
MW-24(24.9)	08/12/19	804.92	20.19	784.73
MW-25(16.4)	08/12/19	791.93	7.64	784.29
MW-26(17.5)	08/12/19	792.16	10.06	782.10
MW-27(18)	08/12/19	785.82	3.92	781.90
MW-30(41.1)	08/12/19	794.57	18.80	775.77
MW-31(30.9)	08/12/19	781.48	8.10	773.38
MW-53(41)	08/12/19	809.87	24.68	785.19
MW-57(38)	08/12/19	795.51	8.34	787.17
MW-59(29)	08/12/19	799.57	14.18	785.39
MW-60(38)	08/12/19	798.51	12.97	785.54
MW-62(36)	08/12/19	810.71	25.65	785.06
MW-65(32)	08/12/19	809.40	24.37	785.03
MW-67(30)	08/12/19	809.53	24.25	785.28
MW-68(32)	08/12/19	809.46	24.28	785.18
MW-71(33)	08/12/19	809.15	23.65	785.50
MW-72(32)	08/12/19	808.92	23.98	784.94
MW-75(32)	08/12/19	809.39	23.45	785.94
MW-76(30)	08/12/19	809.28	23.95	785.33
MW-77(41)	08/12/19	809.39	24.28	785.11
MW-78(35)	08/12/19	809.30	24.29	785.01
MW-79(30)	08/12/19	809.26	24.29	784.97
MW-81(27)	08/12/19	798.34	12.66	785.68
MW-84(44)	08/12/19	824.91	40.19	784.72
MW-85(39)	08/12/19	796.49	11.68	784.81
MW-89(28)	08/12/19	797.77	12.41	785.36
OW-1(28)	08/12/19	805.18	20.17	785.01
OW-2(33)	08/12/19	805.54	20.68	784.86
OW-3(35)	08/12/19	801.72	NM	NM
OW-4(35)	08/12/19	801.35	18.14	783.21
OW-5(16)	08/12/19	790.72	8.29	782.43
OW-6(38)	08/12/19	789.27	8.13	781.14
PM-2	08/12/19	798.45	12.67	785.78
PM-3	08/12/19	808.40	23.10	785.30
ZVI-2(17.5)	08/12/19	791.17	9.07	782.10

Table 1
Surveyed Elevation Data and Depth to Water for Stability Assessment Monitoring Wells and Monitoring Wells Used for Groundwater Elevation Contour Mapping
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well/Point ID	Date Measured	Top of Casing Elevation[3]	Depth to Water (btoc)[4]	Ground Water Elevation
Intermediate Overburden Wells Used for Groundwater Elevation Contour Mapping				
MW-9B	08/12/19	808.07	23.02	785.05
MW-15	08/12/19	792.90	8.96	783.94
MW-19(53)	08/12/19	809.56	24.41	785.15
MW-20(51)	08/12/19	810.41	25.32	785.09
MW-24(55.4)	08/12/19	804.94	20.19	784.75
MW-25(45.2)	08/12/19	791.91	7.95	783.96
MW-26(58.2)	08/12/19	792.17	9.38	782.79
MW-27(53.05)	08/12/19	785.84	3.02	782.82
MW-29(82.5)	08/12/19	801.45	24.21	777.24
MW-31(55.5)	08/12/19	781.47	8.54	772.93
MW-52(55)	08/12/19	798.84	13.93	784.91
MW-55(49)	08/12/19	799.24	12.94	786.30
MW-56(50)	08/12/19	797.23	11.09	786.14
MW-82(58)	08/12/19	807.38	22.34	785.04
MW-83(64)	08/12/19	807.67	22.69	784.98
MW-84(65)	08/12/19	824.56	40.05	784.51
OW-1(39)	08/12/19	805.15	20.16	784.99
OW-2(53)	08/12/19	805.50	20.64	784.86
OW-3(55)	08/12/19	801.66	NM	NM
OW-4(54)	08/12/19	801.33	17.04	784.29
OW-5(35)	08/12/19	790.76	7.42	783.34
OW-6(63)	08/12/19	789.27	7.52	781.75
ZVI-2(32.5)	08/12/19	791.19	8.95	782.24

NM - Not Measured

(1) Well sampled quarterly

(2) Well sampled semi-annually

(3) Top of casing elevation established using NAVD 88 datum (US survey feet)

(4) Below top of casing (feet)

Prepared By: RLB
Checked By: PJS

Table 2
Summary of Field Parameters - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well / Point ID	Date Measured	pH S.U.	Conductivity mS/cm	Temperature °C	DO mg/L	ORP mV
MW-59(29)[2]	02/07/19	6.23	1.721	13.08	0.16	-104.8
	08/22/19	6.21	1.470	14.81	0.61	-48.6
MW-59(46)[2]	02/06/19	7.16	1.194	13.41	0.11	-175.5
	08/22/19	7.11	0.423	14.84	0.50	-43.3
MW-81(27)[2]	02/07/19	6.06	0.963	13.60	0.23	-101.1
	08/21/19	6.09	0.824	21.05	0.40	-84.4
MW-68(32)[2]	02/07/19	7.12	3.138	16.6	3.29	-161
	08/22/19	6.39	2.037	18.45	6.44	44.1
MW-72(32)[2]	02/07/19	6.72	3.489	16.8	3.64	-156
	08/22/19	6.43	1.484	18.79	5.65	47.5
MW-6C[1]	02/06/19	6.77	0.738	14.7	0.66	-83
	05/17/19	6.77	0.806	15.99	2.55	-106.7
	08/21/19	6.91	0.684	18.47	1.87	-8.6
MW-20(51)[2]	02/07/19	7.18	2.424	9.8	0.36	-140
	08/20/19	6.62	0.410	18.34	0.65	100.9
MW-82(58)[2]	02/06/19	6.88	1.814	13.38	0.15	-149.8
	08/20/19	6.83	1.102	17.41	0.21	-121.3
OW-1(39)[1]	02/06/19	7.18	1.537	13.53	0.15	-163.5
	05/17/19	7.23	0.614	14.41	0.21	-171.2
	08/21/19	7.34	0.578	15.10	0.38	-67.1
MW-14[1]	02/06/19	7.01	1.643	12.68	1.11	-150.0
	05/17/19	7.16	0.696	14.98	0.18	-183.7
	08/20/19	6.99	1.084	14.54	0.32	-90.1
OW-2(33)[1]	02/06/19	6.92	0.889	13.3	0.21	-142
	05/16/19	7.21	0.694	14.66	0.17	-123.6
	08/21/19	7.01	0.745	15.59	0.14	-76.7
OW-2(53)[1]	02/06/19	7.00	0.694	9.2	0.49	-137
	05/16/19	6.98	0.646	15.71	0.42	-138.3
	08/21/19	7.10	0.643	15.25	0.91	-83.5
OW-3(35)[2]	02/06/19	7.10	1.899	13.44	0.05	-179.4
	08/21/19	6.71	0.614	16.78	0.30	-100.2
OW-3(55)[2]	02/06/19	6.83	2.102	13.01	5.66	127.8
	08/21/19	6.68	0.636	15.84	0.49	-190.1
MW-15[2]	02/06/19	6.54	1.235	11.8	0.30	-109
	08/20/19	6.35	2.161	16.61	1.02	-50.5
OW-4(35)[2]	02/05/19	6.88	3.341	11.1	0.19	-132
	08/21/19	6.71	1.386	14.83	0.70	-76.8
OW-4(54)[2]	02/05/19	7.14	1.901	11.6	0.26	-96
	08/21/19	7.15	0.978	14.71	0.20	-75.5
MW-17[1]	02/05/19	6.99	0.960	7.29	0.17	-78.4
	05/16/19	6.99	0.722	14.78	0.16	-86.5
	08/20/19	6.81	1.279	21.33	0.25	-62.1
MW-25(16.4)[2]	02/06/19	6.84	0.789	11.9	0.13	-122
	08/20/19	6.62	1.208	15.65	0.10	-90.2

Table 2
Summary of Field Parameters - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well / Point ID	Date Measured	pH S.U.	Conductivity mS/cm	Temperature °C	DO mg/L	ORP mV
MW-25(32.6)[2]	02/06/19	6.87	0.644	12.6	0.39	-132
	08/20/19	6.63	1.032	17.77	0.28	-102.7
MW-25(82)[2]	02/06/19	7.06	0.699	11.8	0.35	-113
	08/20/19	7.04	1.172	15.98	0.71	-51.8
MW-26(17.5)[1]	02/05/19	7.07	1.575	10.2	0.17	-113
	05/16/19	6.80	0.843	13.73	1.48	-102.8
	08/19/19	6.27	0.813	15.22	1.79	-78.6
MW-26(28.8)[1]	02/05/19	7.03	2.230	12.5	0.14	-113
	05/16/19	7.09	1.203	14.63	0.05	-106.8
	08/19/19	6.27	1.144	14.57	0.12	-69.7
MW-26(58.2)[1]	02/05/19	7.37	0.968	11.8	0.27	141
	05/16/19	7.21	0.573	13.64	0.44	-125.8
	08/19/19	6.95	0.604	15.74	1.01	-95.0
MW-27(18)[1]	02/05/19	7.14	0.879	9.49	0.12	-119.7
	05/16/19	6.99	0.660	13.00	0.09	-153.8
	08/19/19	7.67	0.701	18.31	10.85	1.4
OW-5(16)[2]	02/06/19	6.78	1.825	11.60	0.18	-136.1
	08/21/19	6.73	0.651	16.30	0.35	-199.2
OW-5(35)[2]	02/05/19	6.92	0.881	12.42	0.86	-90.5
	08/21/19	6.56	0.623	16.68	0.46	-194.1
OW-5(44)[2]	02/06/19	6.45	3.137	11.89	0.21	-125.2
	08/21/19	6.00	1.065	15.40	0.40	-180.2
OW-6(38)[1]	02/05/19	7.06	0.932	12.38	1.97	-104.5
	05/16/19	7.00	0.668	13.15	1.7	-111.8
	08/21/19	7.19	0.739	14.88	0.12	-107.3
OW-6(63)[1]	02/05/19	6.79	2.164	11.99	0.19	-115.0
	05/16/19	6.97	2.087	12.72	1.1	-114.7
	08/21/19	7.10	0.78	15.30	0.25	-104.6

(1) Well sampled quarterly

(2) Well sampled semi-annually

NM - Not Measured
mS/cm - milli Siemen/centimeter
mg/L - milligram per liter
mV - millivolt
°C - degrees Celsius
S.U. - Standard Unit
ORP - Oxidation-Reduction Potential
DO - Dissolved Oxygen

Prepared By: RLB
Checked By: PJS

Table 3
Summary of Target VOC Concentrations and Contaminant Mass - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	*m/L**
Source Area Behind Plant	*MW-59(29)*	*10/25/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-59(29)	2/7/19	1 U		1 U		1 U		1 U		1 U		1 UJ		*0.00*
	MW-59(29)	8/22/19	1 U		**1.0**	0.01	1 U		1 U		1 U		**1.2**	0.02	***0.03***
	MW-59(29)-R	8/22/19	1 U		**1.1**	0.01	1 U		1 U		1 U		**1.3**	0.02	***0.03***
	MW-59(46)	*7/24/18*	*1 U*		**1.0**	*0.01*	*1 U*		*1 U*		*1 U*		***7.7***	*0.12*	***0.13***
	MW-59(46)	2/6/19	**12 J**	0.12	**1,200**	12.4	**7.0 J**	0.07	1 U		1 U		**1,600 J**	25.6	**38.2**
	MW-59(46)	8/22/19	**41**	0.42	**1,200**	12.4	**16**	0.17	1 U		1 U		**1,600**	25.6	**38.6**
	MW-81(27)	*10/25/18*	*1 U*		***4.7***	*0.05*	*1 U*		*1 U*		*1 U*		***10***	*0.16*	***0.21***
	MW-81(27)-R	*10/25/18*	*1 U*		***3.5***	*0.04*	*1 U*		*1 U*		*1 U*		***8.6***	*0.14*	***0.17***
	MW-81(27)	2/7/19	1 U		**38**	0.39	1 U		1 U		1 U		**46 J**	0.74	**1.13**
	MW-81(27)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Source Area Beneath Plant Building	*MW-68(32)*	*10/25/18*	*5 U*		***110***	*1.1*	*5 U*		*5 U*		*5 U*		***600***	*10*	***11***
	MW-68(32)	2/7/19	1 U		**4.9**	0.05	1 U		1 U		1 U		**35**	0.56	**0.61**
	MW-68(32)	8/22/19	1 U		**12**	0.12	1 U		1 U		1 U		**44**	0.70	**0.83**
	MW-72(32)	*10/25/18*	*1 U*		***1.7***	*0.02*	*1 U*		*1 U*		*1 U*		*1 U*		***0.02***
	MW-72(32)	2/7/19	1 U		**1.0**	0.01	1 U		1 U		1 U		1 U		**0.01**
	MW-72(32)	8/22/19	1 U		**1.3**	0.01	1 U		1 U		1 U		**1.9**	0.03	**0.04**
Treatment Zone A	*MW-6C*	*10/24/18*	*1 U*		***34***	*0.35*	*1 U*		*1 U*		***1.1 J***	*0.01*	***13***	*0.21*	***0.57***
	MW-6C-R	*10/24/18*	*1 U*		***29***	*0.30*	*1 U*		*1 U*		*1 UJ*		***11***	*0.18*	***0.48***
	MW-6C	2/6/19	1 U		**4.9**	0.05	1 U		1 U		1 U		**2.1 J**	0.03	**0.08**
	MW-6C-R	2/6/19	1 U		**4.5**	0.05	1 U		1 U		1 U		**2.3 J**	0.04	**0.08**
	MW-6C	5/17/19	1 U		**2.8**	0.03	1 U		1 U		1 U		**1.9**	0.03	**0.06**
	MW-6C-R	5/17/19	1 U		**2.7**	0.03	1 U		1 U		1 U		**2.0**	0.03	**0.06**
	MW-6C	8/21/19	1 U		**4.0**	0.04	1 U		1 U		1 U		**2.3**	0.04	**0.08**
	MW-20(51)	*10/25/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-20(51)	2/7/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-20(51)	8/20/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-82(58)	*10/24/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-82(58)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	MW-82(58)	8/20/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-1(39)	*10/24/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 UJ*		*0.00*
	OW-1(39)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-1(39)	5/17/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-1(39)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3

Summary of Target VOC Concentrations and Contaminant Mass - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	*m/L**
Treatment Zone B	*MW-14*	*10/24/18*	*1 U*		***1.8 J***	*0.02*	*1 U*		*1 U*		*1 U*		*1 U*		***0.02***
	MW-14	2/6/19	1 U		**1.0**	0.01	1 U		1 U		1 U		1 UJ		**0.01**
	MW-14	5/17/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-14	8/20/19	1 U		**1.5**	0.02	1 U		1 U		1 U		**1.1**	0.02	**0.03**
	OW-2(33)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-2(33)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-2(33)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-2(33)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-2(53)	*10/23/18*	*1 UJ*		*1 UJ*		*1 UJ*		*1 UJ*		*1 UJ*		*1 UJ*		*0.00*
	OW-2(53)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-2(53)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-2(53)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-3(35)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-3(35)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-3(35)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-3(55)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-3(55)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-3(55)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Treatment Zone C	*MW-15*	*10/24/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-15	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	MW-15	8/20/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-4(35)	*10/24/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-4(35)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-4(35)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-4(54)	*10/24/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-4(54)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-4(54)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3

Summary of Target VOC Concentrations and Contaminant Mass - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	*m/L**
Treatment Zone D	*MW-17*	*10/23/18*	*1 U*		***27***	*0.28*	*1 U*		*1 U*		***58***	*0.44*	*1 U*		***0.72***
	MW-17	2/5/19	1 U		**21**	0.22	1 U		1 U		**42**	0.32	1 UJ		**0.54**
	MW-17	5/16/19	1 U		**23**	0.24	1 U		1 U		**42**	0.32	***1.2***	*0.02*	**0.58**
	MW-17	8/20/19	1 U		**20**	0.21	1 U		1 U		**39**	0.30	***1.6***	*0.03*	**0.53**
	MW-25(16.4)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-25(16.4)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-25(16.4)	8/20/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-25(32.6)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-25(32.6)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-25(32.6)	8/20/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-25(82)	*7/23/18*	*1 U*		***1.2***	*0.01*	*1 U*		*1 U*		*1 U*		***2.5***	*0.04*	***0.05***
	MW-25(82)	2/6/19	1 U		**1.4**	0.01	1 U		1 U		1 U		**2.8 J**	0.04	**0.06**
	MW-25(82)	8/20/19	1 U		**1.5**	0.02	1 U		1 U		1 U		**3.6**	0.06	**0.07**
	MW-26(17.5)	*10/22/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-26(17.5)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(17.5)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(17.5)	8/19/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(28.8)	*10/22/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-26(28.8)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(28.8)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(28.8)	8/19/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(58.2)	*10/22/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-26(58.2)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(58.2)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-26(58.2)	8/19/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-27(18)	*7/20/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-27(18)-R	7/20/18	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	MW-27(18)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	MW-27(18)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	MW-27(18)	8/19/19	1 U		1 U		1 U		1 U		**1.1**	0.01	1 U		**0.01**
	MW-27(18)-R	8/19/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3
Summary of Target VOC Concentrations and Contaminant Mass - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	µg/L	*m/L**	*m/L**
Treatment Zone D	*OW-5(16)*	*10/24/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-5(16)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-5(16)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-5(35)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-5(35)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-5(35)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-5(44)	*10/23/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-5(44)	2/6/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-5(44)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-6(38)	*7/19/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-6(38)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-6(38)-R	2/5/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-6(38)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-6(38)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-6(63)	*7/19/18*	*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*1 U*		*0.00*
	OW-6(63)	2/5/19	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	OW-6(63)	5/16/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-6(63)	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	OW-6(63)-R	8/21/19	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Notes:
J - Estimated concentration, analyte detected below quantitation limit
U - Analyzed but not detected above the MDL
(96.94) - Compound molecular weight in grams per mole
*m/L** - micromole per liter
mg/L - micrograms per liter
Italic text is baseline data

Prepared by: RLB
Checked by: PJS

Table 4
Summary of Dissolved Gases - Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Methane	Ethane	Ethene
			µg/L	µg/L	µg/L
Source Area Behind Plant	*MW-59(29)*	*10/25/18*	*24,000*	*390*	*0.16*
	MW-59(29)	2/7/19	27,000	380	0.31
	MW-59(29)	8/22/19	21,000	270	0.14
	MW-59(29)-R	8/22/19	20,000	250	0.14
	MW-81(27)	*10/25/18*	*26,000*	*300*	*82*
	MW-81(27)-R	*10/25/18*	*25,000*	*290*	*81*
	MW-81(27)	2/7/19	25,000	350	1.0
	MW-81(27)	8/21/19	21,000	160	0.2
Source Area Beneath Plant Building	*MW-68(32)*	*10/25/18*	*15,000*	*87*	*1,500*
	MW-68(32)	2/7/19	13,000	170	200
	MW-68(32)	8/22/19	11,000	120	8.0
	MW-72(32)	*10/25/18*	*7,400*	*49*	*0.52*
	MW-72(32)	2/7/19	10,000	40	0.27
	MW-72(32)	8/22/19	9,600	14	0.33
Treatment Zone A	*MW-6C*	*10/24/18*	*18,000*	*31*	*2.4*
	MW-6C-R	*10/24/18*	17,000	*32*	*2.5*
	MW-6C	2/6/19	26,000	33	0.95
	MW-6C-R	2/6/19	25,000	33	0.80
	MW-6C	8/21/19	16,000	22	0.42

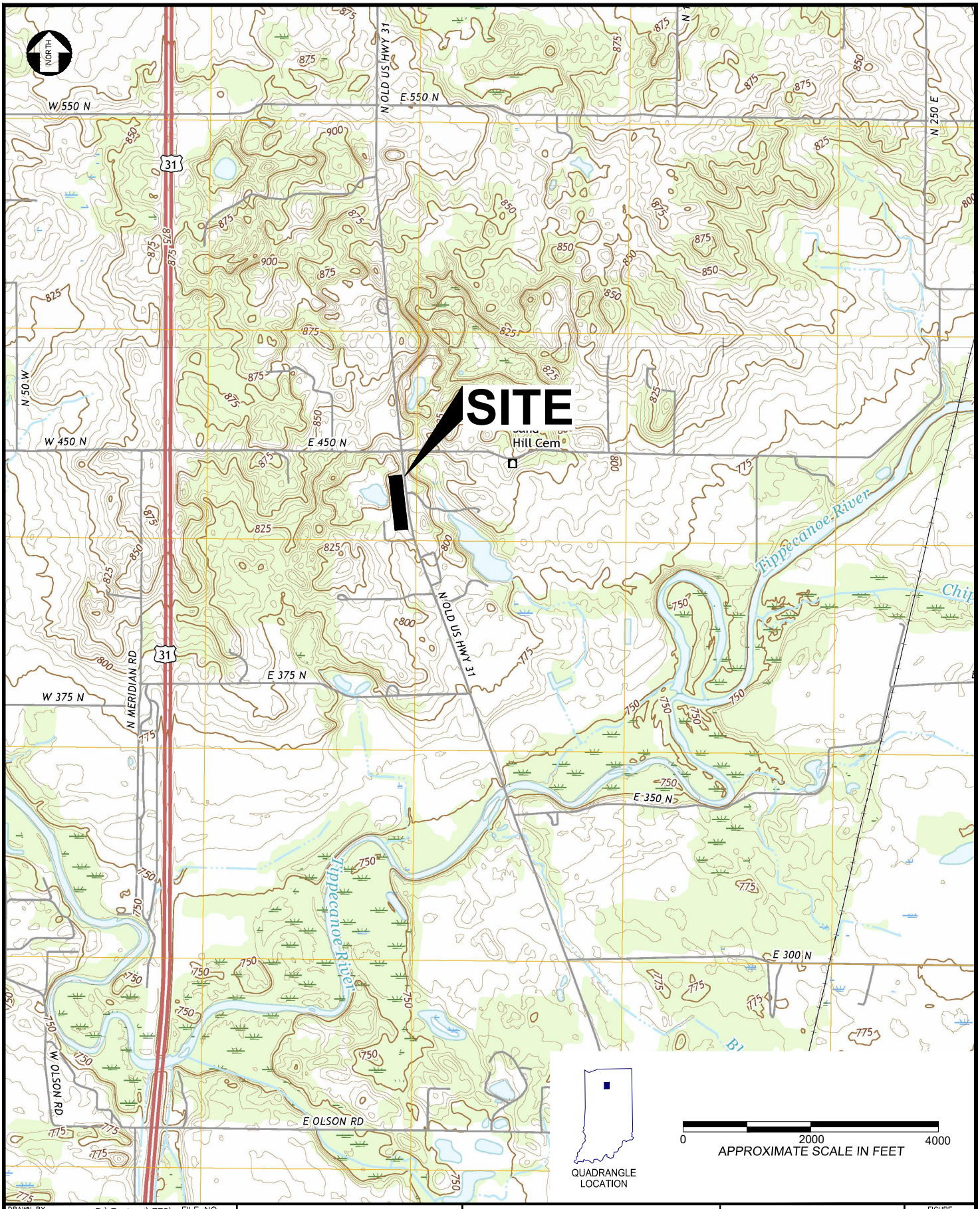
Notes: *Italic text* is baseline data

µg/L - micrograms per liter

Prepared by: RLB

Checked by: PJS

FIGURES



DRAWN BY: RLB	FILE NO.: P:\Textron\TFS\Drawings\TFS Topo.dwg	TORX FACILITY 4366 NORTH OLD US HIGHWAY 31 ROCHESTER, INDIANA	SITE LOCATION MAP
APPROVED BY: PJS	DATE: 09/20/2019		FIGURE 1
SOURCE: USGS 7.5 minute topographic survey maps of Argos and Rochester, IN, 2016.			
PROJECT NO.: 3359 15 1040	SCALE: SEE ABOVE		SHEET 1 of 1

TREATMENT ZONES, ARRAYS AND WELL LOCATIONS

FIGURE 2

SHEET 1 of 1

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

IN-SITU CHEMICAL REDUCTION ZONE

DOWNGRADIENT TREATMENT ZONE

SOURCE AREA TREATMENT ZONE

TREATMENT ZONE A

TREATMENT ZONE B

TREATMENT ZONE C

TREATMENT ZONE D

WESTERN POND

EASTERN POND

N OLD US HIGHWAY 31

4403

4377

STORAGE BUILDING

STORAGE BUILDING

STORAGE BUILDING

Row 1 Row 2 Row 3 Row 4 Array A Array B Array C Array D Array E Array F Array G Array H Array I Array J Array K Array L Array M Array N Array O Array P Array Q Array R Array S Array T Array U Array V Array W Array X Array Y Array Z

MW-8 MW-43 B-64 MW-19 MW-55 MW-56 MW-89(28) MW-81(27) B-87 INJ-2 PM-2 PM-3 MW-59(29) MW-58(46) MW-52 MW-80 MW-60 MW-61 MW-3 B-73 MW-65 MW-76 B-66 MW-67 B-69 MW-68 MW-78 B-70 MW-77 MW-72 MW-71 MW-79 MW-20 MW-6C MW-6B MW-41 MW-62 MW-12 MW-82 MW-13 OW-1 OW-2 B-63 MW-24 MW-14 OW-3 MW-15 MW-25 OW-4 MW-11 MW-83 B-74 MW-75 MW-9A MW-9B MW-9C MW-45 MW-21 MW-84(65) MW-84(44) OW-5 MW-27 MW-16 B-86 B-87 ZVI-1 B-88 ZVI-2 MW-26 MW-17 OW-6

LEGEND

PM-1	Performance Monitoring Well Location
OW-5	Observation Monitoring Well Location
INJ-1	Biostimulation Injection Well Location
B-87	Soil Boring Location
MW-28	Overburden Monitoring Well Location
MW-40	Bedrock Monitoring Well Location
	Treatment Zone A Injection Wells
	Treatment Zone B Injection Wells
	Treatment Zone C Injection Wells
	Treatment Zone D Injection Wells
	ABC + Injection Points
	Array A & B Shallow/Deep Injection Wells
	Building Treatment Zone Injection Wells
Array N	Injection Array
	2016 Polishing Injection Point Locations
	2017 Polishing Injection Point Locations (shaded areas represent angled injection areas)

Note:
Grayed well locations were abandoned in 2014.
(MW-80, MW-81(45), INJ-1, INJ-3, and PM-1)

0 80 160
APPROXIMATE SCALE IN FEET

DRAWN BY RLB
FILE NO. P:\Textron\TFS\Drawings\PM 2017 Site Plan.dwg
APPROVED BY PJS
DATE 09/20/2019
SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.
PROJECT NO. 3359 15 1040
SCALE SEE ABOVE

FIGURE 3

SHEET 1 of 1

GROUNDWATER STABILITY ASSESSMENT MONITORING WELL LOCATIONS

NORTH

4403

4377

MW-8 MW-43 MW-19 MW-55 MW-56 MW-65 MW-89(28) MW-81(27) INJ-2 PM-2 PM-3 MW-76 MW-67 MW-68(32) MW-78 MW-59(46) MW-59(29) MW-52 MW-77 MW-60 MW-72(32) MW-71 MW-61 MW-3 MW-79 MW-62 MW-20(51) MW-6C MW-6B MW-41 MW-12 MW-82(58) MW-13 OW-1(39) OW-2(33) OW-2(53) MW-11 MW-83 MW-75 MW-9A MW-9B MW-9C MW-45 MW-21 MW-84(65) MW-84(44) MW-24 MW-14 OW-3(35) OW-3(55) MW-15 OW-4(35) OW-4(54) MW-25(16.4) MW-25(32.6) MW-25(82) MW-27(18) OW-5(16) OW-5(35) OW-5(44) MW-16 MW-26(17.5) MW-26(28.8) MW-26(58.2) ZVI-1 ZVI-2 MW-17 OW-6(38) OW-6(63)

STORAGE BUILDING

STORAGE BUILDING

STORAGE BUILDING

WESTERN POND

EASTERN POND

N OLD US HIGHWAY 31

IN-SITU CHEMICAL REDUCTION ZONE

SOURCE AREA TREATMENT ZONE

DOWNGRADIENT TREATMENT ZONE

TREATMENT ZONE A

TREATMENT ZONE B

TREATMENT ZONE C

TREATMENT ZONE D

LEGEND

- Stability Monitoring Location (Sampled Quarterly)
- Treatment Area Evaluation Location (Sampled Semi-Annually)
- PM-1 Performance Monitoring Well Location
- OW-5 Observation Monitoring Well Location
- INJ-1 Biostimulation Injection Well Location
- MW-28 Overburden Monitoring Well Location
- MW-40 Bedrock Monitoring Well Location

0 80 160

APPROXIMATE SCALE IN FEET

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

DRAWN BY	RLB
APPROVED BY	PJS
PROJECT NO.	3359 15 1040
FILE NO.	P:\Textron\TFS\Drawings\Stability MWs.dwg
DATE	09/20/2019
SCALE	SEE ABOVE

SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.

GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN WELLS
SOURCE TREATMENT AREA
12 August 2019

FIGURE 4

SHEET 1 of 1

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

NORTH

785.5
786.0
785.0
784.5
784.0
783.5
783.0
782.5
782.0
781.5
781.0

SOURCE AREA TREATMENT ZONE

TREATMENT ZONE A

TREATMENT ZONE B

TREATMENT ZONE C

TREATMENT ZONE D

INFERRED PLUME CENTERLINE

WESTERN POND

EASTERN POND

N OLD US HIGHWAY 31

STORAGE BUILDING

STORAGE BUILDING

STORAGE BUILDING

784.81
MW-85(39)

785.03
MW-65(32)

785.36
MW-89(28)

785.33
MW-76(30)

785.28
MW-67(30)

785.18
MW-68(32)

785.01
MW-78(35)

MW-81(27)
785.68

PM-2
785.78

PM-3
785.30

MW-60(38)
785.54

MW-59(29)
785.39

785.29
MW-3

785.11
MW-77(41)

785.50
MW-71(33)

784.94
MW-72(32)

784.97
MW-79(30)

785.18
MW-20(35)

785.09
MW-6C

785.01
OW-1(28)

784.98
MW-12

784.98
MW-13

MW-62(36)
785.06

OW-2(33)
784.86

784.73
MW-24(24.9)

784.79
MW-14

OW-3(35)
Not Measured

MW-25(16.4)
784.29

OW-4(35)
783.21

MW-75(32)
785.94

785.07
MW-9C

MW-84(44)
784.72

OW-5(16)
782.43

781.90
MW-27(18)

782.26
MW-16

782.10
ZVI-2(17.5)

781.94
MW-17

MW-26(17.5)
782.10

781.14
OW-6(38)

784.84
MW-21(40.2)

LEGEND

MW-24(24.9) 784.73 — GROUNDWATER ELEVATION (FEET) MONITORING WELL ID AND SCREEN DEPTH

784.5 — GROUNDWATER ELEVATION CONTOUR (FEET)

INFERRED GROUNDWATER ELEVATION CONTOUR

NOTES:

1. ONLY MONITORING WELLS USED IN THE CONTOURING ARE SHOWN.
2. MONITORING WELLS LOCATED OUTSIDE OF MAP AREA WERE USED TO DEVELOP CONTOURS.

0 80 160

APPROXIMATE SCALE IN FEET

DRAWN BY	RLB
APPROVED BY	PJS
PROJECT NO.	3359 15 1040
FILE NO.	P:\Textron\TFS\Drawings\GW Contours 2018 RA.dwg
DATE	12/20/2109
SCALE	SEE ABOVE

SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN 9/5, 2005.

NORTH

785.15
MW-19(53)

MW-55(49)
786.30

786.0

785.5

786.14
MW-56(50)

SOURCE AREA
TREATMENT ZONE

WESTERN
POND

TREATMENT ZONE A

785.09
MW-20(51)

OW-1(39)
784.99

784.91
MW-52(55)

785.0

785.04
MW-82(58)

784.75
MW-24(55.4)

STORAGE BUILDING

STORAGE BUILDING

STORAGE BUILDING

OW-3(55)
Not Measured

TREATMENT ZONE C

784.86
OW-2(53)

784.98
MW-83(64)

MW-15
783.94

OW-4(54)
784.29

783.96
MW-25(45.2)

TREATMENT ZONE B

N OLD US HIGHWAY 31

INFERRED
PLUME CENTERLINE

784.5

784.0

783.5

783.0

782.5

782.0

781.5

781.0

780.5

MW-84(65)
784.51

783.34
OW-5(35)

782.82
MW-27(53.05)

EASTERN
POND

785.05
MW-9B

785.0

TREATMENT ZONE D

ZVI-2(32.5)
782.24

MW-26(58.2)
782.79

781.75
OW-6(63)

LEGEND

MW-20(51) 785.09 — GROUNDWATER ELEVATION (FEET) MONITORING WELL ID AND SCREEN DEPTH

784.5 — GROUNDWATER ELEVATION CONTOUR (FEET)

INFERRED GROUNDWATER ELEVATION CONTOUR

NOTES:

1. ONLY MONITORING WELLS USED IN THE CONTOURING ARE SHOWN.
2. MONITORING WELLS LOCATED OUTSIDE OF MAP AREA WERE USED TO DEVELOP CONTOURS.

0 80 160

APPROXIMATE SCALE IN FEET

FIGURE 5

SHEET 1 of 1

GROUNDWATER CONTOUR MAP
INTERMEDIATE OVERBURDEN WELLS
SOURCE TREATMENT AREA
12 August 2019

wood.

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

DRAWN BY	RLB	FILE NO.	P:\Textron\TFS\Drawings\GW Contours 2018 RA.dwg
APPROVED BY	PJS	DATE	09/20/2019
SOURCE	Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.	SCALE	SEE ABOVE
PROJECT NO.	3359 15 1040		

QUARTERLY STABILITY MONITORING VOLATILE ORGANIC COMPOUNDS

FIGURE 6

SHEET 1 of 1

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

WESTERN POND

EASTERN POND

4403

4377

STORAGE BUILDING

STORAGE BUILDING

STORAGE BUILDING

IN-SITU CHEMICAL REDUCTION ZONE

SOURCE AREA TREATMENT ZONE

TREATMENT ZONE B

TREATMENT ZONE D

MW-8
MW-43
MW-55
MW-56
MW-65
MW-89(28)
MW-81(27)
INJ-2
PM-2
PM-3
MW-76
MW-67
MW-68(32)
MW-59(46)
MW-59(29)
MW-52
MW-77
MW-78
MW-60
MW-72(32)
MW-71
MW-61
MW-3
MW-79
MW-20(51)
MW-6C
MW-6B
MW-41
MW-12
MW-82(58)
MW-13
MW-62
MW-11
MW-83
MW-75
MW-21
OW-1(39)
OW-2(33)
OW-2(53)
MW-24
MW-14
OW-3(35)
OW-3(55)
MW-15
OW-4(35)
OW-4(54)
MW-25(16.4)
MW-25(32.6)
MW-25(82)
OW-5(16)
OW-5(35)
OW-5(44)
MW-16
MW-26(17.5)
MW-26(28.8)
MW-26(58.2)
ZVI-1
ZVI-2
MW-17
MW-27(18)
OW-6(38)
OW-6(63)

MW-6C
02/06/2019

1,1-DCE	<1.0
c-1,2-DCE	4.9
t-1,2-DCE	<1.0
TCE	<1.0
VC	2.1 J

MW-6C
05/17/2019

1,1-DCE	<1.0
c-1,2-DCE	2.8
t-1,2-DCE	<1.0
TCE	<1.0
VC	1.9

MW-6C
08/21/2019

1,1-DCE	<1.0
c-1,2-DCE	4.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	2.3

OW-1(39)
02/06/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-1(39)
05/17/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-1(39)
08/21/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-2(33)
02/06/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-2(53)
02/06/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-2(33)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-2(53)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-2(33)
08/21/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-2(53)
08/21/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-14
02/06/2019

1,1-DCE	<1.0
c-1,2-DCE	1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

MW-14
05/17/2019

1,1-DCE	<1.0
c-1,2-DCE	1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-14
08/20/2019

1,1-DCE	<1.0
c-1,2-DCE	1.5
t-1,2-DCE	<1.0
TCE	<1.0
VC	1.1

MW-27(18)
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

MW-27(18)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-27(18)
08/19/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	1.1
VC	<1.0

MW-17
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	21
t-1,2-DCE	<1.0
TCE	42
VC	<1.0 J

MW-17
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	23
t-1,2-DCE	<1.0
TCE	42
VC	1.2

MW-17
08/20/2019

1,1-DCE	<1.0
c-1,2-DCE	20
t-1,2-DCE	<1.0
TCE	39
VC	1.6

MW-26(17.5)
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(28.8)
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(58.2)
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(17.5)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(28.8)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(58.2)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(17.5)
08/19/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(28.8)
08/19/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-26(58.2)
08/19/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-6(38)
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-6(63)
02/05/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-6(38)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-6(63)
05/16/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-6(38)
08/21/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-6(63)
08/21/2019

1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

LEGEND

- Stability Monitoring Location (Sampled Quarterly)
- Treatment Area Evaluation Location (Sampled Semi-Annually)
- PM-1 Performance Monitoring Well Location
- OW-5 Observation Monitoring Well Location
- INJ-1 Biostimulation Injection Well Location
- MW-28 Overburden Monitoring Well Location
- MW-40 Bedrock Monitoring Well Location

OW-3(55) 02/06/2019	Sample Identification, Date Sample Collected
VC 2.3	Compound Name and Result Value

J - Value is estimated.
1,1-DCE - 1,1-Dichloroethene
c-1,2-DCE - cis-1,2-Dichloroethene
t-1,2-DCE - trans-1,2-Dichloroethene
TCE - Trichloroethene
VC - Vinyl Chloride

Results reported in micrograms per liter (µg/L).

0 80 160
APPROXIMATE SCALE IN FEET

NORTH

DRAWN BY: RLB
FILE NO.: P:\Textron\TFS\Drawings\Stability MWs.dwg
APPROVED BY: P.JS
DATE: 12/20/2019
SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.
PROJECT NO.: 3359 15 1040
SCALE: SEE ABOVE

MW-81(27) 02/07/2019	
1,1-DCE	<1.0
c-1,2-DCE	38
t-1,2-DCE	<1.0
TCE	<1.0
VC	46 J

MW-81(27) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-59(46) 02/06/2019	
1,1-DCE	12 J
c-1,2-DCE	1,200
t-1,2-DCE	7.0 J
TCE	<1.0
VC	1,600 J

MW-59(46) 08/22/2019	
1,1-DCE	41
c-1,2-DCE	1,200
t-1,2-DCE	16
TCE	<1,0
VC	1,600

MW-59(29) 02/07/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

MW-59(29) 08/22/2019	
1,1-DCE	<1.0
c-1,2-DCE	1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	1.2

MW-68(32) 02/07/2019	
1,1-DCE	<1.0
c-1,2-DCE	4.9
t-1,2-DCE	<1.0
TCE	<1.0
VC	35

MW-68(32) 08/22/2019	
1,1-DCE	<1.0
c-1,2-DCE	12
t-1,2-DCE	<1.0
TCE	<1.0
VC	44

MW-72(32) 02/07/2019	
1,1-DCE	<1.0
c-1,2-DCE	1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-72(32) 08/22/2019	
1,1-DCE	<1.0
c-1,2-DCE	1.3
t-1,2-DCE	<1.0
TCE	<1.0
VC	1.9

MW-20(51) 02/07/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-20(51) 08/20/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-82(58) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

MW-82(58) 08/20/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-3(35) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-3(55) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-3(35) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-3(55) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-15 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

MW-15 08/20/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-25(16.4) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-25(32.6) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-25(82) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	1.4
t-1,2-DCE	<1.0
TCE	<1.0
VC	2.8 J

MW-25(16.4) 08/20/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-25(32.6) 08/20/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-25(82) 08/20/2019	
1,1-DCE	<1.0
c-1,2-DCE	1.5
t-1,2-DCE	<1.0
TCE	<1.0
VC	3.6

OW-4(35) 02/05/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-4(54) 02/05/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-4(35) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-4(54) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-5(16) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-5(35) 02/05/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-5(44) 02/06/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0 J

OW-5(16) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-5(35) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

OW-5(44) 08/21/2019	
1,1-DCE	<1.0
c-1,2-DCE	<1.0
t-1,2-DCE	<1.0
TCE	<1.0
VC	<1.0

MW-8
MW-43
MW-19
MW-55
MW-56
MW-89(28)
MW-81(27)
INJ-2
PM-2
PM-3
MW-65
MW-76
MW-67
MW-68(32)
MW-78
MW-77
MW-72(32)
MW-71
MW-59(46)
MW-59(29)
MW-52
MW-60
MW-61
MW-3
MW-79
MW-62
MW-75
MW-9A
MW-9B
MW-9C
MW-45
MW-21
MW-20(51)
MW-6C
MW-6B
MW-41
MW-12
MW-82(58)
MW-13
MW-11
MW-83
MW-84(65)
MW-84(44)
OW-1(39)
OW-2(33)
OW-2(53)
MW-14
MW-24
OW-3(35)
OW-3(55)
MW-15
OW-4(35)
OW-4(54)
MW-25(16.4)
MW-25(32.6)
MW-25(82)
MW-27(18)
OW-5(16)
OW-5(35)
OW-5(44)
MW-16
MW-26(17.5)
MW-26(28.8)
MW-26(58.2)
ZVI-1
ZVI-2
MW-17
OW-6(38)
OW-6(63)
4403
4377
STORAGE BUILDING
STORAGE BUILDING
STORAGE BUILDING
EASTERN POND
N OLD US HIGHWAY 31
DOWNGRADIENT TREATMENT ZONE
TREATMENT ZONE
TREATMENT ZONE
TREATMENT ZONE B
TREATMENT ZONE D
SOURCE AREA TREATMENT ZONE
IN... CAL RE... ONE

LEGEND

- Stability Monitoring Location (Sampled Quarterly)
- Treatment Area Evaluation Location (Sampled Semi-Annually)
- PM-1 — Performance Monitoring Well Location
- OW-5 — Observation Monitoring Well Location
- INJ-1 — Biostimulation Injection Well Location
- MW-28 — Overburden Monitoring Well Location
- MW-40 — Bedrock Monitoring Well Location

OW-3(55) 02/06/2019	
VC	2.3

Sample Identification / Date Sample Collected
Compound Name and Result Value

J - Value is estimated.
1,1-DCE - 1,1-Dichloroethene
c-1,2-DCE - cis-1,2-Dichloroethene
t-1,2-DCE - trans-1,2-Dichloroethene
TCE - Trichloroethene
VC - Vinyl Chloride

Results reported in micrograms per liter (µg/L).

0 80 160
APPROXIMATE SCALE IN FEET

NORTH

FIGURE 7
SHEET 1 of 1

SEMI-ANNUAL TREATMENT AREA
STABILITY MONITORING
VOLATILE ORGANIC COMPOUNDS

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

wood.

DRAWN BY RLB
APPROVED BY PJS
P:\Textron\TFS\ Drawings\Stability MWs.dwg
DATE 09/20/2019
SOURCE Wells surveyed by Territorial Engineering; Fulton County, IN GIS, 2005.
PROJECT NO. 3359 15 1040
FILE NO.
SCALE SEE ABOVE

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FIELD FORMS

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 6C (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/21/19 | Start Time: 1415 | Weather: Sunny 78°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 25.31 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: _____ | Well Diameter: 2" | Approx. Pump Depth: 35-37 Feet
Screen Interval: top _____ bottom _____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: 1420 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1425	7.58	0.621	22.45	83.1	200	25.31	0.00	1.79	60.3
1430	7.01	0.653	19.13	18.4	200	25.33	0.02	1.10	36.6
1435	6.97	0.661	19.08	11.00	200	25.35	0.02	1.24	19.6
1440	6.93	0.670	18.31	8.3	200	25.35	0.00	1.55	-3.3
1445	6.91	0.677	18.53	8.8	200	25.35	0.00	1.87	-3.8
1450	6.9	0.684	18.47	5.4	200	25.35	0.00	1.87	-8.60
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: _____

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 10.0 NTUs

Sample Name: ATR-MW 6C-G082119 | Time: 1450

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☒	4	
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ | Blind Dup _____ | Blind Dup Name _____ | TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 14
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: RLH | Date: 8/10/17 | Start Time: 0750 | Weather: Sunny 75°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.88 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 46.60 | Well Diameter: 2" | Approx. Pump Depth: 42-44 Feet
Screen Interval: top ____ bottom 46.60 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: 0800 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0805	6.69	1.135	14.74	5.1	200	17.88	0.00	0.41	36.2
0810	6.88	1.087	14.71	5.6	200	17.87	0.01	0.28	-53.2
0815	6.89	1.086	14.69	6.0	200	17.86	0.01	0.29	-58.4
0820	6.91	1.083	14.52	8.9	200	17.86	0.00	0.30	-68.3
0825	6.94	1.082	14.59	1.2	200	17.86	0.00	0.31	-82.6
0830	6.97	1.083	14.61	3.2	200	17.86	0.00	0.31	-92.0
0835	6.99	1.084	14.54	6.2	200	17.86	0.00	0.32	-98.1
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: Stability Sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.44 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW14 - G080817a | Time: 0835

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW15 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: _____ | Date: 8/20/19 | Start Time: 0845 | Weather: Sunny 71

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 8.89 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 55.0 | Well Diameter: 2" | Approx. Pump Depth: 51-53 Feet
Screen Interval: top _____ bottom 55.0 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: 0850 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)	
0855	6.54	2.025	16.58	2.3	200	8.90	0.02	0.65	-51.7	
0900	6.49	2.061	15.98	31.2	200	8.89	0.01	0.73	-52.7	
0905	6.47	2.080	15.85	70.5	200	8.91	0.02	0.93	-57.2	
0910	6.46	2.092	15.82	74.3	200	8.92	0.01	1.16	-57.3	
0915	6.45	2.104	15.91	62.7	200	8.90	0.02	1.08	-56.9	
0920	6.44	2.104	16.09	40.0	200	8.88	0.02	0.98	-56.2	
0925	6.43	2.110	16.21	30.0	200	8.88	0.00	0.95	-55.5	
0930	6.41	2.141	16.25	24.7	200	8.88	0.00	0.92	-54.2	← dumped cell
0935	6.56	2.279	16.30	14.2	200	8.98	0.00	0.99	-41.6	
0940	6.42	2.141	16.29	28.0	200	8.88	0.00	1.10	-42.1	
0945	6.40	2.145	16.46	16.9	200	8.88	0.00	1.02	-49.4	
0950	6.40	2.161	16.60	10.5	200	8.88	0.00	1.02	-50.1	
0955	6.35	2.161	16.61	9.5	200	8.88	0.00	1.02	-50.5	
Stabilization Criteria:		±3%	±3%	±10				±10%	±10	

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0955	6.35	2.161	16.61	9.5	200	8.88	0.00	1.02	-50.5

Comments: Stability Sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.44 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW 15 - 08202019 | Time: 0955

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ | Blind Dup _____ | Blind Dup Name _____ | TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 17
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: RLH | Date: 8/20/19 | Start Time: 1225 | Weather: Sunny

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 2.76 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 40.3 | Well Diameter: 2" | Approx. Pump Depth: 36.5-38.5 Feet
Screen Interval: top ____ bottom 40.3 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ | Composite ☐ | Grundfos ☐ | Bladder Pump ☒ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1235 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft) 0.05	DO (mg/L)	ORP (mV)
1240	7.35	1.187	25.00	2.4	100	2.71	0.00	2.36	48.9
1245	7.02	1.237	23.28	0.8	100	2.71	0.00	2.32	43.4
1250	6.91	1.245	22.56	0.7	100	2.71	0.00	0.39	-3.6
1255	6.85	1.269	22.10	0.6	100	2.71	0.00	0.45	-10.8
1300	6.83	1.271	21.94	0.8	100	2.71	0.00	0.28	-18.7
1305	6.82	1.275	21.68	0.2	100	2.71	0.00	0.29	-26.8
1310	6.82	1.274	21.62	0.3	100	2.71	0.00	0.26	-34.7
1315	6.81	1.274	21.38	0.0	100	2.71	0.00	0.25	-60.9
1320	6.81	1.279	21.33	0.1	100	2.71	0.00	0.25	-62.1
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1320	6.81	1.279	21.33	0.1	100	2.71	0.00	0.25	-62.1

Comments: Stability Sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW17-20082019 | Time: 1320

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW30(51) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GO | Date: 8/26/19 | Start Time: 1240 | Weather: Sun 80s

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 25.21 | Depth to Product: NA | Product Thickness: NA
(TJS) 8/28/19
Total Casing Depth: ~~50~~ 51 | Well Diameter: 2" | Approx. Pump Depth: ~~45~~ 40 Feet
Screen Interval: top ~~40~~ bottom ~~60~~ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐

Pump Started: 1245 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1250	6.96	0.410	18.81	0.6	250	25.26	0.05	0.75	92.0
1255	6.49	0.373	18.69	0.1	250	25.26	0.05	0.55	79.1
1300	6.53	0.363	18.60	0.2	250	25.26	0.05	0.101	84.0
1305	6.59	0.392	18.37	0.0	250	25.26	0.05	0.64	92.2
1310	6.58	0.405	18.36	0.0	250	25.26	0.05	0.05	96.3
1315	6.61	0.408	18.35	0.0	250	25.26	0.05	0.05	99.2
1320	6.62	0.410	18.34	0.0	250	25.26	0.05	0.05	100.9
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1320	6.62	0.410	18.34	0.0	250	25.26	0.05	0.05	100.9

Comments: * Stability sample / In Network

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW30(51)-GO82019 | Time: 1320

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW25(16.4) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/20/19 | Start Time: 1100 | Weather: overcast 78°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 7.64 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 16.4 | Well Diameter: 2" | Approx. Pump Depth: 12.5-14.5 Feet
Screen Interval: top ____ bottom 16.4 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: ____ Pump Stopped: ____ Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1105	6.70	1.175	15.79	2.3	200	7.64	0.00	1.10	-47.5
1110	6.61	1.201	15.52	1.2	200	7.66	0.02	0.11	-91.0
1115	6.60	1.202	15.57	1.1	200	7.68	0.02	0.10	-88.1
1120	6.61	1.204	15.56	1.0	200	7.70	0.02	0.08	-85.0
1125	6.61	1.206	15.60	1.1	200	7.71	0.01	0.11	-86.6
1130	6.62	1.208	15.65	1.2	200	7.71	0.00	0.10	-90.2
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1330	6.62	1.208	15.65	1.2	200	7.71	0.00	0.10	-90.2

Comments: Stability Sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☑ ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW25(16.4)-6082019 Time: 1132

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☐			Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO_4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ Blind Dup ____ Blind Dup Name ____ TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 25 (32.6) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/20/19 | Start Time: 1140 | Weather: Sunny 85°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 7.61 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 32.4 | Well Diameter: 2" | Approx. Pump Depth: 28.5-30.5 Feet
Screen Interval: top ____ bottom 32.4 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1145 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1150	6.66	1.034	18.45	1.2	100	7.61	0.00	0.92	-14.5
1155	6.62	1.032	17.71	5.8	100	7.61	0.00	0.21	-95.0
1200	6.62	1.033	17.72	5.5	100	7.61	0.00	0.22	-95.6
1205	6.62	1.032	17.76	6.1	100	7.61	0.00	0.22	-98.0
1210	6.61	1.031	17.80	2.3	100	7.61	0.00	0.22	-101.3
1215	6.63	1.032	17.77	1.4	100	7.61	0.00	0.28	-102.7
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1215	6.63	1.032	17.77	1.4	100	7.61	0.00	0.28	-102.7

Comments: Stabilizing Sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW25(32.6)-20082019 | Time: 1215

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 25(82) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/20/19 | Start Time: 1010 | Weather: CLEAR Cast 75°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 9.25 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 82 | Well Diameter: 2" | Approx. Pump Depth: 79-80 Feet
Screen Interval: top ____ bottom 82 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: 1015 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1020	7.12	1.187	17.04	13.4	200	9.25	0.00	2.49	47.6
1025	7.06	1.172	16.17	5.6	200	9.30	0.05	0.57	-17.6
1030	7.04	1.174	16.08	3.6	200	9.30	0.05	0.53	-23.3
1035	7.04	1.173	16.06	2.2	200	9.30	0.00	0.70	-40.1
1040	7.04	1.172	16.02	2.2	200	9.30	0.00	0.68	-46.2
1045	7.04	1.172	15.98	2.4	200	9.30	0.00	0.71	-51.8
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1045	7.04	1.172	15.98	2.4	200	9.30	0.00	0.71	-51.8

Comments: Stability Sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW29(82)-GW082019 | Time: 1045

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ Blind Dup ____ Blind Dup Name ____ TB ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☒ Sample ID ATR-MW-26(17.5)
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel RM Date 8/19/19 Start Time 1500 Weather Sunny

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 9.99 Depth to Product NA Product Thickness NA
Total Casing Depth 17.5 Well Diameter 2" Approx. Pump Depth 13.5-15.5 Feet
Screen Interval top bottom 17.5 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started 1505 Pump Stopped _____ Total Gallons _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)	
~~1510~~	~~7.54~~					10.01	0.02		~~52.4~~	Pump NOT Pumping.
1515	6.81	0.880	18.76	507.8	200	10.01	0.02	1.98	14.0	
1520	6.42	2.819	16.36	123.6	200	10.01	0.00	1.97	-65.8	
1525	6.31	0.817	16.14	58.1	200	10.01	0.00	2.27	-64.1	
1530	6.16	0.814	15.12	57.4	200	10.01	0.00	2.41	-56.6	
1535	6.17	0.814	15.09	43.8	200	10.01	0.00	2.23	-63.9	
1540	6.21	0.814	15.21	37.9	200	10.01	0.00	2.22	-66.2	
1545	6.26	0.815	15.42	30.2	200	10.08	0.07	2.18	-68.4	
1550	6.30	0.815	15.58	23.5	200	10.02	0.01	2.02	-72.8	
1555	6.30	0.814	15.56	21.7	200	10.02	0.00	1.96	-74.1	
1600	6.26	0.815	15.29	16.8	200	10.02	0.00	1.90	-74.8	
1605	6.24	0.813	15.27	2.00	200			1.79	-78.6	

Stabilization Criteria: ±3% ±3% ±10 ±10% ±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: ATR-EB001-081919 collected at Stability

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ ORP Calibration 229 mV
SC Reference Solution 1.49 mS/cm Turbidity Cal. Solution 0-0 NTUs

Sample Name ATR-MW26(17.5)-G081919 Time 1610

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass P = Poly
Preservative Codes: 1 = HCL 4 = NaOH 2 = HNO_3 5 = BAC 3 = H_2SO_4 6 = Na_3PO_4

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☐ | Sample ID: ATR-MW 26 (28.8) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/19/19 | Start Time: 1415 | Weather: Sunny 87°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 9.91 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 28.8 | Well Diameter: 2" | Approx. Pump Depth: 25-27 Feet
Screen Interval: top ____ bottom 28.8 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ | Composite ☐ | Grundfos ☐ | Bladder Pump ☒ | Peristaltic Pump ☐ | Bailer ☐

Pump Started: 1420 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1425	6.38	1.226	14.68	9.2	200	9.90	0.01	0.19	-62.5
1430	6.36	1.191	13.32	14.1	200	9.90	0.00	0.16	-67.5
1435	6.34	1.179	14.69	0.4	200	9.90	0.00	0.16	-68.9
1440	6.32	1.168	14.67	0.3	200	9.90	0.00	0.13	-69.8
1445	6.30	1.151	14.61	0.9	200	9.90	0.00	0.12	-69.8
1450	6.27	1.144	14.57	3.7	200	9.90	0.00	0.12	-69.7
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW 26 (28.8) - GD091919 | Time: 1450

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/VOA	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 26 (58.2) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/19/19 | Start Time: 1330 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: _____ | Depth to Water: 9.34 | Depth to Product: _____ | Product Thickness: _____
Total Casing Depth: _____ | Well Diameter: _____ | Approx. Pump Depth: 52 54.2 Feet
Screen Interval: top 48.2 bottom 58.2 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☐ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1335 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1340	7.21	0.618	16.72	4.3	200	9.55	0.01	1.42	-3.4
1345	7.09	0.600	16.06	2.7	200	9.34	0.01	0.57	-51.7
1350	7.10	0.597	15.64	0.6	200	9.41	0.05	0.98	-83.1
1355	6.99	0.602	15.70	0.3	200	9.40	0.01	0.98	-92.0
1400	6.99	0.603	15.68	0.4	200	9.40	0.00	0.99	-92.6
1405	6.95	0.604	15.74	0.5	200	9.40	0.00	1.01	-95.0
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1405	6.95	0.604	15.74	0.5	200	9.40	0.00	1.01	-95.0

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution _____ NTUs

Sample Name: ATR-MW26(58.2)-G081919 | Time: 1405

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3 ☒		Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD: _____ | Blind Dup: _____ | Blind Dup Name: _____ | TB: _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW27(18) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: BS | Date: 8/19/19 | Start Time: 1525 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 2.85 ft | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 18 | Well Diameter: 2 in | Approx. Pump Depth: 14 Feet
Screen Interval: top 13 bottom 18 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1530 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1535	7.51	0.697	18.87	0.0	250	2.85	0.0	10.14	3.4
1540	7.60	0.697	18.36	0.0	250	2.85	0.0	10.78	-0.2
1545	7.65	0.699	18.35	0.0	250	2.85	0.0	10.30	-0.1
1550	7.66	0.701	18.34	0.0	250	2.85	0.0	10.88	-0.1
1555	7.66	0.701	18.33	0.0	250	2.85	0.0	10.84	1.2
1600	7.67	0.701	18.31	0.0	250	2.85	0.0	10.85	1.4
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1600	7.67	0.701	18.31	0.0	250	2.85	0.0	10.85	1.4

Comments: ATR-MW27(18)-G081919R taken after Sample *Annual Network sample stability

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 239 mV
SC Reference Solution 4.44 mS/cm | Turbidity Cal. Solution 0 NTUs

Sample Name: ATR-MW27(18)-G081919 | Time: 1600

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD: _____ | Blind Dup: _____ | Blind Dup Name: * | TB: _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

* ATR-MW27(18)-G081919R

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 59(29) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RWH | Date: 8/22/19 | Start Time: 0935 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 15.31 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 29 | Well Diameter: 2" | Approx. Pump Depth: 26-28 Feet
Screen Interval: top _____ bottom 29 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 0940 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0945	6.24	1.320	14.91	3.4	200	15.30	0.00	0.28	-20.1
0950	6.20	1.400	14.98	1.3	200	15.30	0.00	0.35	-34.6
0955	6.23	1.440	14.95	1.3	200	15.30	0.00	0.46	-34.0
1000	6.23	1.460	14.87	3.4	200	15.30	0.00	0.52	-42.2
1005	6.25	1.464	14.92	3.4	200	15.30	0.00	0.57	-46.5
1010	6.21	1.470	14.81	1.1	200	15.30	0.00	0.61	-48.6
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1010	6.21	1.470	14.81	1.1	200	15.30	0.00	0.61	-48.6

Comments: *Replicate collected

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 220 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW 59(29)-GW082219R | Time: 1010

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	6/G	2	Dissolved Gasses ☒	6/G	6
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO_4) ☐		
Other: _____ ☐			Other: _____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ | Blind Dup _____ | Blind Dup Name: ATR-MW59(29)-GW082219R | FB _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW59(46) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: PMT | Date: 8/22/19 | Start Time: 0820 | Weather: OVERCAST 69°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 13.96 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 46 | Well Diameter: 2" | Approx. Pump Depth: 42-44 Feet
Screen Interval: top ____ bottom 46 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: 0835 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0840	6.36	0.466	15.14	15.8	200	13.95	0.01	0.68	163.8
0845	6.67	0.441	14.97	9.1	200	13.93	0.02	0.46	132.5
0850	6.83	0.428	14.86	3.6	200	13.91	0.02	0.37	101.1
0855	6.98	0.423	14.98	0.6	200	13.91	0.00	0.43	41.8
0900	7.03	0.423	15.18	0.1	200	13.92	0.02	0.43	20.9
0905	7.05	0.422	15.21	0.1	200	13.92	0.00	0.43	6.1
0910	7.09	0.423	14.98	0.8	200	13.92	0.00	0.45	-14.7
0915	7.12	0.423	14.90	3.4	200	13.92	0.00	0.49	-33.2
0920	7.13	0.423	14.91	3.4	200	13.92	0.00	0.51	-40.2
0925	7.11	0.423	14.84	3.4	200	13.92	0.00	0.50	-43.3
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0925	7.11	0.423	14.84	3.4	200	13.92	0.00	0.50	-43.3

Comments: ____

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW59(46)-GW082219 | Time: 0925

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐	____	____
TOC + NO_3 ☐	____	____	VFA ☐	____	____
Fe/Mn ☐	____	____	DHC ☐	____	____
			Alkalinity + Anions (Cl-, SO4) ☐	____	____
Other: ____ ☐	____	____	Other: ____ ☐	____	____

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 68(32) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/22/19 | Start Time: 1500 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 24.28 | Depth to Product: _____ | Product Thickness: _____
Total Casing Depth: _____ | Well Diameter: _____ | Approx. Pump Depth: _____ Feet
Screen Interval: top _____ bottom _____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☐ Peristaltic Pump ☐ Bailer ☒
Pump Started: _____ | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1510	6.52	1.209	19.36	MS.S	—	—	—	2.90	42.1
1520	6.93	2.075	18.39	2807	—	—	—	6.70	31.3
1530	6.39	2.037	18.45	147.6	—	—	—	6.44	44.1
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1530	6.39	2.037	18.45	147.6	_____	_____	_____	6.44	44.1

Comments: (32 - 24.28) x (0.09) = 2.08 gallons
* bubbles in sample

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW 68(32)-G0822 19 | Time: 1530

Analyses (check)	Bottle #/Type	Preservative	Analyses (check)	Bottle #/Type	Preservative
VOCs ☒	3/G		Dissolved Gasses ☒	3G	
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: _____ ☐			Other: _____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD: _____ | Blind Dup: _____ | Blind Dup Name: _____ | TB: _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☑ Sample ID ATR-MW-72(32)
(Use: Well name)
Project Number 3359-15-1040
Sampling Personnel RVH Date 8/22/19 Start Time 1405 Weather _____

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 23.90 Depth to Product _____ Product Thickness _____
Total Casing Depth _____ Well Diameter _____ Approx. Pump Depth _____ Feet
Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☐ Peristaltic Pump ☐ Bailer ☒

Pump Started _____ Pump Stopped _____ Total Gallons _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1415	6.63	8.972	19.92	10780	—	—	—	1.85	41.6
1425	6.35	7.941	18.65	10915	—	—	—	4.23	52.0
1435	6.43	1.484	18.79	1092.7	—	—	—	5.65	47.5
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1435	6.43	1.484	18.79	1092.7	—	—	—	5.65	47.5

Comments: (32 - 23.98) × (0.09) = 0.72 × 3 = 2.17 Gallons
*Bubbles in Sample

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm Turbidity Cal. Solution 0.0 NTUs

Sample Name ATR-MW 72(32)-G082219 Time 1433

Analyses (check)	Bottle #/Type	Preservative	Analyses (check)	Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☒	3/G	
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location **TFS Rochester** Surface Water [ ] Groundwater [✓] Sample ID ATR-MW 81(27) (Use: Well name)
Project Number **3359-15-1040**
Sampling Personnel GS Date 8/21/19 Start Time 1440 Weather sun 85°

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 12.61 Depth to Product NA Product Thickness NA
Total Casing Depth 27 Well Diameter 2" Approx. Pump Depth 23 Feet
Screen Interval top 22 bottom 25 Feet

SAMPLING SUMMARY:
Sampling Method: Grab [ ] Composite [ ] Grundfos [ ] Bladder Pump [✓] Peristaltic Pump [ ] Bailer [ ]
Pump Started 1445 Pump Stopped ____ Total Gallons ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1450	6.24	0.756	18.69	0.0	200	13.35	0.74	1.19	-61.0
1455	5.82	0.704	18.70	0.0	* ~~185~~ 125	13.07	0.46	0.00	-64.2
1500	5.88	0.778	19.87	0.0	125	13.03	0.42	0.56	-70.4
1505	6.05	0.823	21.04	0.0	125	12.98	0.37	0.45	-76.0
1510	6.08	0.896	21.06	0.0	125	12.95	0.34	0.42	-81.2
1515	6.09	0.884	21.05	0.0	125	12.90	0.29	0.40	-84.4

Stabilization Criteria: ±3% (SC), ±3% (Temp), ±10 (Turb.), ±10% (DO), ±10 (ORP)

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1515	6.09	0.884	21.05	0.0	125	12.90	0.29	0.40	-84.4

Comments: * Dropp flow rate to 125 ml/min ~~[illegible]~~ Stability Well

Calibration: pH Calibration Buffers: 4 [✓] 7 [✓] 10 [✓] ORP Calibration 227 mV
SC Reference Solution 4.49 mS/cm Turbidity Cal. Solution 0 NTUs

Sample Name ATR-MW 81(27)-GO82119 Time 1515

Analyses (check)		Bottle #/Type	Preservative			Bottle #/Type	Preservative
VOCs	[✓]	G	1	Dissolved Gasses	[✓]	G	6
TOC + NO_3	[ ]			VFA	[ ]		
Fe/Mn	[ ]			DHC	[ ]		
				Alkalinity + Anions (Cl-, SO4)	[ ]		
Other:____	[ ]			Other:____	[ ]		

Bottle Type:
G = Glass
P = Poly

Preservative Codes:
1 = HCL 4 = NaOH
2 = HNO_3 5 = BAC
3 = H_2SO_4 6 = Na_3PO_4

MS/MSD ____ Blind Dup ____ Blind Dup Name ____ TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW 82(58) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/20/19 | Start Time: 1350 | Weather: Overcast 88°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 22.48 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 58 | Well Diameter: 2" | Approx. Pump Depth: 55.5-57.5 Feet
Screen Interval: top ____ bottom 58 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1405 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1410	7.04	0.963	20.90	8.9	100	22.350	.13	0.84	-4.3
1415	6.91	0.996	17.67	2.9	100	22.35	0.0	0.35	-92.5
1420	6.89	0.999	17.60	3.1	100	22.35	0.0	0.32	-94.6
1425	6.87	1.019	17.52	1.4	100	22.35	0.0	0.23	-108.5
1430	6.86	1.032	17.58	30.2	100	22.35	0.0	0.22	-114.9
1435	6.93	1.100	17.27	4.5	100	22.35	0.0	0.20	-120.5
1441	6.83	1.059	17.29	5.8	100	22.35	0.0	0.20	-120.9
1445	6.83	1.096	17.40	10.7	100	22.35	0.00	0.19	-121.0
1450	6.83	1.102	17.41	2.9	100	22.35	0.00	0.21	-121.3

Stabilization Criteria: ±3% | ±3% | ±10 | | | | ±10% | ±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1450	6.83	1.102	17.41	2.9	100	22.35	0.00	0.21	~~-121.3~~ -121.3

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 27 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW 82(58)-GW082019 | Time: 1450

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☐	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW-(SW)39
Project Number: 3359-15-1040
Sampling Personnel: RLF | Date: 8/21/19 | Start Time: 1325 | Weather: sunny 76° | (Use: Well name)

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 20.1 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 39 | Well Diameter: 2" | Approx. Pump Depth: 35-37 Feet
Screen Interval: top ____ bottom 39 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1330 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1335	7.16	0.681	15.51	1.2				6.10	8.6
1340	7.36	0.623	15.11	0.3	200	20.1	0.0	6.28	-24.7
1345	7.30	0.620	15.20	0.8	200	20.1	0.0	0.33	-[illegible]
1350	7.34	0.578	15.15	1.0	200	20.1	0.0	0.36	-65.2
1355	7.35	0.578	15.10	1.0	200	20.1	0.0	0.29	-65.9
1400	7.34	0.578	15.10	1.0	200	20.1	0.0	0.33	-66.6
								0.38	-67.1

Stabilization Criteria: ±3% | ±3% | ±10 | | | | ±10% | ±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1400	7.34	0.578	15.10	1.0	200	20.1	0.0	0.38	-67.1

Comments: ATR-EB001-082119 collected after sampling

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration [illegible] mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW-(SW)39-082119 | Time: 1400

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☒ Sample ID ATR-MW-OW2 (33)
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel RLH Date 8/21/19 Start Time 1235 Weather Sunny 76°

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 26.70 Depth to Product NA Product Thickness NA
Total Casing Depth 33 Well Diameter 2" Approx. Pump Depth 29-31 Feet
Screen Interval top ____ bottom 33 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started 1240 Pump Stopped ____ Total Gallons ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1245	6.91	0.839	14.75	17.2	200	20.70	0.00	0.45	-28.4
1250	6.93	0.801	14.78	32.7	200	20.70	0.00	0.20	-56.1
1255	6.99	0.758	14.78	16.2	200	20.70	0.00	0.13	-61.2
1300	6.99	0.756	15.79	15.2	200	20.70	0.00	0.13	-70.3
1305	7.00	0.759	13.58	12.4	200	20.70	0.00	0.13	-71.2
1310	7.01	0.745	15.59	7.4	200	20.70	0.00	0.14	-76.7
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1310	7.01	0.745	15.59	7.4	200	20.70	0.00	0.14	-76.7

Comments: Sample includes MS/MSD

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm Turbidity Cal. Solution 0.90 NTUs

Sample Name ATR-MW-OW2 (33)-20082119 Time 1310

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	9/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass P = Poly
Preservative Codes: 1 = HCL 4 = NaOH 2 = HNO_3 5 = BAC 3 = H_2SO_4 6 = Na_3PO_4

MS/MSD ✓ Blind Dup ____ Blind Dup Name ____ TB ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW OW2(53)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: RHT | Date: 8/21/19 | Start Time: 1150 | Weather: Sunny 75°

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 20.61 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 53 | Well Diameter: 2" | Approx. Pump Depth: 49-51 Feet
Screen Interval: top ____ bottom 53 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1155 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1200	7.23	0.726	16.07	13.4	200	20.61	0.60	1.30	11.0
1205	7.13	0.683	15.45	14.9	200	20.64	0.03	0.53	-18.0
1210	7.12	0.657	15.31	18.3	200	20.64	0.00	0.61	-62.7
1215	7.31	0.649	15.5	17.7	200	20.63	0.01	0.82	-74.9
1220	7.11	0.646	15.29	14.4	200	20.63	0.00	0.87	-79.0
1225	7.10	0.643	15.25	8.7	200	20.63	0.00	0.91	-83.5
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1225	7.10	0.643	15.25	8.7	200	20.63	0.00	0.91	-83.5

Comments: ____

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW OW2(53)-G082119 | Time: 1225

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-~~MW~~ GW3 (35)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GS | Date: 8/21/19 | Start Time: 1150 | Weather: sun 70's

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.16 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 35 | Well Diameter: 2" | Approx. Pump Depth: 32 Feet
Screen Interval: top 5 bottom 35 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1155 | Pump Stopped: | Total Gallons:

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1200	6.83	0.685	17.95	8.7	250	17.10	0.0	1.14	-89.1
1205	6.83	0.651	17.96	3.3	250	17.10	0.0	0.97	-92.2
1210	6.73	0.619	16.83	0.0	250	17.10	0.0	0.44	-93.0
1215	6.73	0.618	16.73	0.0	250	17.10	0.0	0.30	-97.1
1220	6.73	0.615	16.74	0.0	250	17.10	0.0	0.30	-99.5
1225	6.71	0.614	16.78	0.0	250	17.10	0.0	0.30	-100.2

Stabilization Criteria: ±3% | ±3% | ±10 | | | | ±10% | ±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1225	6.71	0.614	16.78	0.0	250	17.10	0.0	0.30	-100.2

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0 NTUs

Sample Name: ATR-~~MW~~ GW3(35)GW082119 | Time: 1225

Analyses (check)		Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs	☑	G	1	Dissolved Gasses ☐		
TOC + NO_3	☐			VFA ☐		
Fe/Mn	☐			DHC ☐		
				Alkalinity + Anions (Cl-, SO4) ☐		
Other:	☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD | Blind Dup | Blind Dup Name | TB

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ~~ATR-MW~~ ATR-GW3(55) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: ES | Date: 8/21/19 | Start Time: 1130 | Weather: Sun, 80s

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.07 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 55 | Well Diameter: 2" | Approx. Pump Depth: 51 Feet
Screen Interval: top 50 bottom 55 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1125 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1130	6.64	0.640	15.32	0.0	200	17.07	0.0	1.00	-167.5
1135	6.58	0.639	15.06	0.0	200	17.07	0.0	0.57	-170.2
1140	6.67	0.639	14.86	0.0	200	17.07	0.0	0.47	-182.5
1145	6.68	0.637	15.81	0.0	200	17.07	0.0	0.50	-181.1
1150	6.68	0.636	15.84	0.0	200	17.08	0.0	0.49	-180.1
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1150	6.68	0.636	15.84	0.0	200	17.08	0.0	0.49	-180.1

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 0.9 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0 NTUs

Sample Name: ATR-~~MW~~ GW3(55)-GO8219 | Time: 1150

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	6	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ | Blind Dup _____ | Blind Dup Name _____ | TB _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW-OW4(35)
Project Number: 3359-15-1040
Sampling Personnel: RLH | Date: 8/21/19 | Start Time: 1110 | Weather: Overcast 71°
(Use: Well name)

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.30 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 35 | Well Diameter: 2" | Approx. Pump Depth: 31-33 Feet
Screen Interval: top ____ bottom 35 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1110 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1115	6.74	0.571	14.86	11.3	200	17.48	0.12	0.49	-63.7
1120	6.76	0.573	14.88	14.3	200	17.50	0.02	0.51	-75.0
1125	6.75	1.479	14.91	4.9	200	17.55	0.05	0.69	-77.5
1130	6.74	1.457	14.80	10.7	200	17.55	0.00	0.65	-78
1135	6.73	1.411	14.69	9.2	200	17.55	0.00	0.698	-77
1140	6.71	1.386	14.85	8.0	200	17.55	0.00	0.70	-76.8
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1140	6.71	1.386	14.85	8.0	200	17.55	0.00	0.70	-76.8

Comments: ____

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW-OW4(35)-G082119 | Time: 1140

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☑			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW-OW4(54)
Project Number: 3359-15-1040
Sampling Personnel: RCL | Date: 9/21/19 | Start Time: 1020 | Weather: OVERCAST 71°
(Use: Well name)

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.09 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 53.76 | Well Diameter: 2 in | Approx. Pump Depth: 50-52 Feet
Screen Interval: top ____ bottom ~~53~~ Feet 53.76

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐

Pump Started: 1030 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1035	7.23	0.976	15.19	1.0	200	17.09	0.00	0.49	8.8
1040	7.21	0.971	15.05	2.5	200	17.09	0.00	0.27	-12.7
1045	7.18	0.967	14.89	5.7	200	17.09	0.00	0.19	-44.0
1050	7.17	0.966	14.79	7.1	200	17.09	0.00	0.17	-59.9
1055	7.16	0.976	14.69	7.5	200	17.09	0.00	0.19	-72.3
1100	7.16	0.976	14.70	9.0	200	17.09	0.00	0.19	-73.4
1105	7.15	0.978	14.71	8.7	200	17.09	0.00	0.20	-75.5
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: ____

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.0 NTUs

Sample Name: ATR-MW-OW4(54)-G082119 | Time: 1105

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☐ | Sample ID: ATR-~~MW~~ OW5(10)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: _____ | Date: _____ | Start Time: 1030 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 8.24 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 16 | Well Diameter: 2" | Approx. Pump Depth: 14 Feet
Screen Interval: top 11 bottom 16 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1035 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
1040	6.75	0.672	16.53	102.6	200	8.27	0.03	0.55	-184.5
1045	6.60	0.663	16.36	56.4	200	8.27	0.03	0.40	-190.5
1050	6.66	0.655	16.29	29.5	200	8.27	0.03	0.38	-194.1
1055	6.71	0.652	16.31	12.9	200	8.27	0.03	0.36	-197.0
1100	6.73	0.651	16.30	5.8	200	8.27	0.03	0.35	-199.2
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1100	6.73	0.651	16.30	5.8	200	8.27	0.03	0.35	-199.2

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0 NTUs

Sample Name: ATR-~~MW~~ OW5(10)-GOBJ119 | Time: 1100

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD: _____ | Blind Dup: _____ | Blind Dup Name: _____ | TB: _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW OWS(35) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: BS | Date: 7/21/19 | Start Time: 0405 | Weather: Sun 80s

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 7.35 | Depth to Product: NA | Product Thickness: NM
Total Casing Depth: 35 | Well Diameter: 2" | Approx. Pump Depth: 32 Feet
Screen Interval: top 30 bottom 35 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started: 0915 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0930	6.55	0.657	17.17	335	200	7.35	0.0	0.41	-187.7
0945	6.69	0.638	17.04	117	200	7.35	0.0	0.80	-185.5
0950	6.63	0.647	16.93	111	200	7.35	0.0	0.68	-183.9
0955	6.58	0.634	16.55	70.5	200	7.35	0.0	0.53	-180.2
0940	6.56	0.634	16.90	63.9	200	7.35	0.0	0.52	-176.5
0945	6.59	0.628	16.96	34.6	200	7.35	0.0	0.57	-173.4
0950	6.61	0.629	16.35	34.6	200	7.35	0.0	0.55	-191.3
0955	6.59	0.627	16.58	31.3	200	7.35	0.0	0.53	-190.4
1000	6.59	0.624	16.74	31.3	200	7.35	0.0	0.51	-192.4
1005	6.56	0.623	16.95	25.8	200	7.35	0.0	0.50	-193.4
1010	6.57	0.620	16.74	20.3	200	7.35	0.0	0.49	-194.3
1015	6.55	0.623	16.70	22.1	200	7.35	0.0	0.48	-196.2
1020	6.56	0.623	16.68	21.8	200	7.35	0.0	0.46	-194.1

Stabilization Criteria: ±3% | ±3% | ±10 | | | | | ±10% | ±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1020	6.56	0.623	16.68	21.8	200	7.35	0.0	0.46	~~194.1~~ -194.1

Comments: *Replaced two well caps Stability

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 235 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0 NTUs

Sample Name: ATR-MW-OWS(44)-G088119 | Time: 1020

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD | Blind Dup | Blind Dup Name | TB

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW-OW5(44)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GS | Date: 8/21/19 | Start Time: 0830 | Weather: overcast 78s

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 7.35 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 44 | Well Diameter: 2" | Approx. Pump Depth: 42 Feet
Screen Interval: top 34 bottom 44 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐

Pump Started: 0835 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0840	5.90	1.005	15.97	0.0	200	7.35	0.0	0.80	-148.2
0845	5.93	1.076	15.63	0.0	200	7.35	0.0	0.53	-154.3
0850	5.89	1.059	15.47	0.0	200	7.35	0.0	0.47	-160.3
0855	5.95	1.061	15.43	0.0	200	7.35	0.0	0.41	-174.3
0900	5.98	1.063	15.42	0.0	200	7.35	0.0	0.41	-177.9
0905	6.00	1.065	15.40	0.0	200	7.35	0.0	0.40	-180.2
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0905	6.00	1.065	15.40	0.0	200	7.35	0.0	0.40	-180.2

Comments: Stability

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0 NTUs

Sample Name: ATR-MW-OW5(44)-G082119 | Time: 0905

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-~~MW~~ OW 6 (37) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: R.L.L. | Date: 8/21/19 | Start Time: 0940 | Weather: overcast 70

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 8.12 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 37 | Well Diameter: 2" | Approx. Pump Depth: 33-35 Feet
Screen Interval: top ____ bottom 37 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 0940 | Pump Stopped: ____ | Total Gallons: ____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0945	7.14	0.735	16.73	13.9	200	8.12	0.00	1.04	-101.5
0950	7.19	0.721	15.13	5.4	200	8.12	0.00	0.28	-102.5
0955	7.19	0.732	15.13	5.4	200	8.12	0.00	0.16	-104.9
1000	7.19	0.735	14.97	1.4	200	8.12	0.00	0.12	-106.3
1005	7.19	0.738	14.84	1.2	200	8.12	0.00	0.12	-107.6
1010	7.19	0.739	14.88	0.2	200	8.12	0.00	0.12	-107.3
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1010	7.19	0.739	14.88	0.2	200	8.12	0.0	0.12	-107.3

Comments: ____

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution ____ NTUs

Sample Name: ATR-~~MW~~ OW 6 (37)-GW082119 | Time: 1010

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	3/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ____ ☐			Other: ____ ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD ____ | Blind Dup ____ | Blind Dup Name ____ | TB ____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-~~MW~~OW 6(63) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: _____ | Date: 8/21/19 | Start Time: 0750 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 7.57 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 63 | Well Diameter: 2" | Approx. Pump Depth: 60 Feet
Screen Interval: top _____ bottom 63 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 0810 | Pump Stopped: _____ | Total Gallons: _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0815	6.56	0.800	17.41	209.3	200	7.57	0.00	2.82	174.8
0820	6.81	0.774	16.04	60.1	200	7.59	0.02	0.50	14.2
0825	6.94	0.770	15.65	35.8	200	7.59	0.00	0.47	-17.4
0830	7.02	0.771	15.63	53.9	200	7.59	0.00	0.20	-57.3
0835	7.03	0.770	15.68	57.9	200	7.59	0.00	0.18	-61.5
0840	7.04	0.771	15.71	62.9	200	7.59	0.00	0.18	-63.9
0845	6.99	0.774	15.66	66.5	200	7.59	0.00	0.39	-51.3
0850	7.03	0.772	15.67	30.2	200	7.59	0.00	0.26	-68.8
0855	7.06	0.771	15.86	46.6	200	7.59	0.00	0.21	-82.3
0900	7.02	0.767	16.00	58.3	200	7.59	0.00	0.46	-76.2
0905	7.02	0.776	16.05	16.6	200	7.59	0.00	0.43	-80.4
0910	7.05	0.758	16.13	10	200	7.59	0.00	0.37	-88.9
0915	7.07	0.772	16.1	41.2	200	7.59	0.00	0.31	-98.1
0920	7.10	0.778	15.48	37.9	200	7.59	0.00	0.27	-101.2
0925	7.10	0.780	15.30	36.2	200	7.59	0.00	0.25	-104.6
~~0930~~									
~~0935~~									
Stabilization Criteria:	±3%		±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0925	7.10	0.780	15.30	36.2	200	7.59	0.00	0.25	-104.6

Comments: Visually turbidity < 10, bubbles in water possibly affecting turbidity meter Readings.

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0.00 NTUs

Sample Name: ATR-~~MW~~OW6(63)-G082119 | Time: 0925

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	6/G	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO_3, 5 = BAC, 3 = H_2SO_4, 6 = Na_3PO_4

MS/MSD: _____ | Blind Dup: _____ | ~~Blind~~ Dup Name: ATR-OW6(63)-G082119R | TB: _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☐ Sample ID ATR-MW-EB001-081919
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel _____ Date _____ Start Time _____ Weather _____

MEASUREMENT SUMMARY:
Measuring Point _____ Depth to Water _____ Depth to Product _____ Product Thickness _____
Total Casing Depth _____ Well Diameter _____ Approx. Pump Depth _____ Feet
Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☐ Peristaltic Pump ☐ Bailer ☐

Pump Started _____ Pump Stopped _____ Total Gallons _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: _____

Calibration: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ ORP Calibration _____ mV
SC Reference Solution _____ mS/cm Turbidity Cal. Solution _____ NTUs

Sample Name ATR-MW-EB001-081919 Time 1420

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3 VOA	1	Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: ☐			Other: ☐		

Bottle Type:
G = Glass
P = Poly

Preservative Codes:
1 = HCL 4 = NaOH
2 = HNO_3 5 = BAC
3 = H_2SO_4 6 = Na_3PO_4

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

wood.

GROUNDWATER/SURFACE WATER SAMPLING FORM

Wood Environment & Infrastructure Solutions, Inc.

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☐ Sample ID ATR-~~MW~~ EB001
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel RLT Date 8/21/19 Start Time 1410 Weather Sunny 78°

MEASUREMENT SUMMARY:
Measuring Point _____ Depth to Water _____ Depth to Product _____ Product Thickness _____
Total Casing Depth _____ Well Diameter _____ Approx. Pump Depth _____ Feet
Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☐ Peristaltic Pump ☐ Bailer ☐

Pump Started _____ Pump Stopped _____ Total Gallons _____

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP

Comments: _____

Calibration: pH Calibration Buffers: 4 ☐ 7 ☐ 10 ☐ ORP Calibration _____ mV
SC Reference Solution _____ mS/cm Turbidity Cal. Solution _____ NTUs

Sample Name ATR-~~MW~~ EB002-082119 Time 1410

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☐			Dissolved Gasses ☐		
TOC + NO_3 ☐			VFA ☐		
Fe/Mn ☐			DHC ☐		
			Alkalinity + Anions (Cl-, SO4) ☐		
Other: _____ ☐			Other: _____ ☐		

Bottle Type:
G = Glass
P = Poly

Preservative Codes:
1 = HCL 4 = NaOH
2 = HNO_3 5 = BAC
3 = H_2SO_4 6 = Na_3PO_4

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

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GROUNDWATER/SURFACE WATER SAMPLING FORM

APPENDIX B

LABORATORY REPORTS AND DATA VALIDATION REPORT

28-Aug-2019

Paul Stork
Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342

Re: **TFS Rochester (3359-15-1040)** Work Order: **19081608**

Dear Paul,

ALS Environmental received 17 samples on 22-Aug-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 52.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Ehrland Bosworth

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS Group, USA

Date: 28-Aug-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
Work Order: **19081608**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19081608-01	ATR-MW26(28.8)-G081919	Groundwater		8/19/2019 14:50	8/22/2019 09:30	☐
19081608-02	ATR-MW26(58.2)-G081919	Groundwater		8/19/2019 14:05	8/22/2019 09:30	☐
19081608-03	ATR-MW26(17.5)-G081919	Groundwater		8/19/2019 16:10	8/22/2019 09:30	☐
19081608-04	ATR-EB001-081919	Water		8/19/2019 14:20	8/22/2019 09:30	☐
19081608-05	ATR-MW27(18)-G081919	Groundwater		8/19/2019 16:00	8/22/2019 09:30	☐
19081608-06	ATR-MW27(18)-G081919R	Groundwater		8/19/2019 16:00	8/22/2019 09:30	☐
19081608-07	ATR-MW14-G082019	Groundwater		8/20/2019 08:35	8/22/2019 09:30	☐
19081608-08	ATR-MW15-G082019	Groundwater		8/20/2019 09:55	8/22/2019 09:30	☐
19081608-09	ATR-MW25(82)-G082019	Groundwater		8/20/2019 10:45	8/22/2019 09:30	☐
19081608-10	ATR-MW25(32.6)-G082019	Groundwater		8/20/2019 12:15	8/22/2019 09:30	☐
19081608-11	ATR-MW17-G082019	Groundwater		8/20/2019 13:20	8/22/2019 09:30	☐
19081608-12	ATR-MW82(58)-G082019	Groundwater		8/20/2019 14:50	8/22/2019 09:30	☐
19081608-13	ATR-MW20(51)-G082019	Groundwater		8/20/2019 13:20	8/22/2019 09:30	☐
19081608-14	ATR-MW25(16.4)-G082019	Groundwater		8/20/2019 11:30	8/22/2019 09:30	☐
19081608-15	ATR-MW6C-G082119	Groundwater		8/21/2019 14:50	8/22/2019 09:30	☐
19081608-16	ATR-EB001-082119	Groundwater		8/21/2019 14:10	8/22/2019 09:30	☐
19081608-17	ATR-TR003-082119	Groundwater		8/21/2019	8/22/2019 09:30	☐

ALS Group, USA

Date: 28-Aug-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
WorkOrder: **19081608**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

Client: Wood Environment & Infrastructure Solutions, Inc
Project: TFS Rochester (3359-15-1040)
Work Order: 19081608

Case Narrative

Samples for the above noted Work Order were received on 08/22/19. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch R269156, Method VOC_8260_W, Sample 19081608-01A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-02A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-03A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-04A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-05A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-06A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-08A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-09A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-10A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-16A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

Batch R269156, Method VOC_8260_W, Sample 19081608-17A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for 2-Hexanone.

No other deviations or anomalies were noted.

ALS Group, USA

Date: *28-Aug-19*

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW26(28.8)-G081919 **Lab ID:** 19081608-01
Collection Date: 8/19/2019 02:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 05:36 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 05:36 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Acetone	ND		10	µg/L	1	8/26/2019 05:36 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Chloromethane	**1.9**		**1.0**	**µg/L**	1	8/26/2019 05:36 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 05:36 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 05:36 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 05:36 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 05:36 PM
Surr: 1,2-Dichloroethane-d4	*98.7*		*75-120*	*%REC*	1	8/26/2019 05:36 PM
Surr: 4-Bromofluorobenzene	*94.4*		*80-110*	*%REC*	1	8/26/2019 05:36 PM
Surr: Dibromofluoromethane	*97.8*		*85-115*	*%REC*	1	8/26/2019 05:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW26(28.8)-G081919 **Lab ID:** 19081608-01
Collection Date: 8/19/2019 02:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	8/26/2019 05:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW26(58.2)-G081919 **Lab ID:** 19081608-02
Collection Date: 8/19/2019 02:05 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 06:00 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 06:00 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Acetone	ND		10	µg/L	1	8/26/2019 06:00 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 06:00 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 06:00 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 06:00 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 06:00 PM
Surr: 1,2-Dichloroethane-d4	*97.8*		*75-120*	*%REC*	1	8/26/2019 06:00 PM
Surr: 4-Bromofluorobenzene	*99.2*		*80-110*	*%REC*	1	8/26/2019 06:00 PM
Surr: Dibromofluoromethane	*99.9*		*85-115*	*%REC*	1	8/26/2019 06:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW26(58.2)-G081919 **Lab ID:** 19081608-02
Collection Date: 8/19/2019 02:05 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*103*		*85-110*	*%REC*	1	8/26/2019 06:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW26(17.5)-G081919 **Lab ID:** 19081608-03
Collection Date: 8/19/2019 04:10 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 06:25 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 06:25 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Acetone	ND		10	µg/L	1	8/26/2019 06:25 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 06:25 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 06:25 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 06:25 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 06:25 PM
Surr: 1,2-Dichloroethane-d4	*103*		*75-120*	*%REC*	1	8/26/2019 06:25 PM
Surr: 4-Bromofluorobenzene	*98.0*		*80-110*	*%REC*	1	8/26/2019 06:25 PM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	1	8/26/2019 06:25 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW26(17.5)-G081919 **Lab ID:** 19081608-03
Collection Date: 8/19/2019 04:10 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	8/26/2019 06:25 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-EB001-081919 **Lab ID:** 19081608-04
Collection Date: 8/19/2019 02:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 03:36 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 03:36 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Acetone	ND		10	µg/L	1	8/26/2019 03:36 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 03:36 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 03:36 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 03:36 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 03:36 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	8/26/2019 03:36 PM
Surr: 4-Bromofluorobenzene	*95.4*		*80-110*	*%REC*	1	8/26/2019 03:36 PM
Surr: Dibromofluoromethane	*97.8*		*85-115*	*%REC*	1	8/26/2019 03:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-EB001-081919 **Lab ID:** 19081608-04
Collection Date: 8/19/2019 02:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.2*		*85-110*	*%REC*	1	8/26/2019 03:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW27(18)-G081919 **Lab ID:** 19081608-05
Collection Date: 8/19/2019 04:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 06:49 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 06:49 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Acetone	ND		10	µg/L	1	8/26/2019 06:49 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 06:49 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 06:49 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Trichloroethene	**1.1**		**1.0**	**µg/L**	1	8/26/2019 06:49 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 06:49 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 06:49 PM
Surr: 1,2-Dichloroethane-d4	*106*		*75-120*	*%REC*	1	8/26/2019 06:49 PM
Surr: 4-Bromofluorobenzene	*94.2*		*80-110*	*%REC*	1	8/26/2019 06:49 PM
Surr: Dibromofluoromethane	*109*		*85-115*	*%REC*	1	8/26/2019 06:49 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW27(18)-G081919 **Lab ID:** 19081608-05
Collection Date: 8/19/2019 04:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*95.8*		*85-110*	*%REC*	1	8/26/2019 06:49 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW27(18)-G081919R **Lab ID:** 19081608-06
Collection Date: 8/19/2019 04:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 07:13 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 07:13 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Acetone	ND		10	µg/L	1	8/26/2019 07:13 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Chloromethane	**1.3**		**1.0**	**µg/L**	1	8/26/2019 07:13 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 07:13 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 07:13 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 07:13 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 07:13 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	8/26/2019 07:13 PM
Surr: 4-Bromofluorobenzene	*94.2*		*80-110*	*%REC*	1	8/26/2019 07:13 PM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	8/26/2019 07:13 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW27(18)-G081919R **Lab ID:** 19081608-06
Collection Date: 8/19/2019 04:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.0*		*85-110*	*%REC*	1	8/26/2019 07:13 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW14-G082019 **Lab ID:** 19081608-07
Collection Date: 8/20/2019 08:35 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 07:37 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 07:37 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Acetone	ND		10	µg/L	1	8/26/2019 07:37 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
cis-1,2-Dichloroethene	**1.5**		**1.0**	**µg/L**	1	8/26/2019 07:37 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 07:37 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 07:37 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 07:37 PM
Vinyl chloride	**1.1**		**1.0**	**µg/L**	1	8/26/2019 07:37 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 07:37 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	8/26/2019 07:37 PM
Surr: 4-Bromofluorobenzene	*95.2*		*80-110*	*%REC*	1	8/26/2019 07:37 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	8/26/2019 07:37 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW14-G082019 **Lab ID:** 19081608-07
Collection Date: 8/20/2019 08:35 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*96.2*		*85-110*	*%REC*	1	8/26/2019 07:37 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW15-G082019 **Lab ID:** 19081608-08
Collection Date: 8/20/2019 09:55 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
2-Butanone	**17**		**5.0**	**µg/L**	1	8/26/2019 08:01 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 08:01 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Acetone	ND		10	µg/L	1	8/26/2019 08:01 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 08:01 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 08:01 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 08:01 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 08:01 PM
Surr: 1,2-Dichloroethane-d4	*105*		*75-120*	*%REC*	1	8/26/2019 08:01 PM
Surr: 4-Bromofluorobenzene	*94.8*		*80-110*	*%REC*	1	8/26/2019 08:01 PM
Surr: Dibromofluoromethane	*103*		*85-115*	*%REC*	1	8/26/2019 08:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW15-G082019 **Lab ID:** 19081608-08
Collection Date: 8/20/2019 09:55 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*92.0*		*85-110*	*%REC*	1	8/26/2019 08:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW25(82)-G082019 **Lab ID:** 19081608-09
Collection Date: 8/20/2019 10:45 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 08:25 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 08:25 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Acetone	ND		10	µg/L	1	8/26/2019 08:25 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
cis-1,2-Dichloroethene	**1.5**		**1.0**	**µg/L**	1	8/26/2019 08:25 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 08:25 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 08:25 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 08:25 PM
Vinyl chloride	**3.6**		**1.0**	**µg/L**	1	8/26/2019 08:25 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 08:25 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/26/2019 08:25 PM
Surr: 4-Bromofluorobenzene	*93.8*		*80-110*	*%REC*	1	8/26/2019 08:25 PM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	1	8/26/2019 08:25 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW25(82)-G082019 **Lab ID:** 19081608-09
Collection Date: 8/20/2019 10:45 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*93.6*		*85-110*	*%REC*	1	8/26/2019 08:25 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW25(32.6)-G082019 **Lab ID:** 19081608-10
Collection Date: 8/20/2019 12:15 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 08:49 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 08:49 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Acetone	ND		10	µg/L	1	8/26/2019 08:49 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 08:49 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 08:49 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 08:49 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 08:49 PM
Surr: 1,2-Dichloroethane-d4	*98.3*		*75-120*	*%REC*	1	8/26/2019 08:49 PM
Surr: 4-Bromofluorobenzene	*95.6*		*80-110*	*%REC*	1	8/26/2019 08:49 PM
Surr: Dibromofluoromethane	*97.6*		*85-115*	*%REC*	1	8/26/2019 08:49 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW25(32.6)-G082019 **Lab ID:** 19081608-10
Collection Date: 8/20/2019 12:15 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	8/26/2019 08:49 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW17-G082019 **Lab ID:** 19081608-11
Collection Date: 8/20/2019 01:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 02:52 AM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 02:52 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Acetone	ND		10	µg/L	1	8/27/2019 02:52 AM
Benzene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Bromoform	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Chloroform	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
cis-1,2-Dichloroethene	**20**		**1.0**	**µg/L**	1	8/27/2019 02:52 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 02:52 AM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 02:52 AM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Styrene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Toluene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 02:52 AM
Trichloroethene	**39**		**1.0**	**µg/L**	1	8/27/2019 02:52 AM
Vinyl chloride	**1.6**		**1.0**	**µg/L**	1	8/27/2019 02:52 AM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 02:52 AM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 02:52 AM
Surr: 4-Bromofluorobenzene	*94.9*		*80-110*	*%REC*	1	8/27/2019 02:52 AM
Surr: Dibromofluoromethane	*98.6*		*85-115*	*%REC*	1	8/27/2019 02:52 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW17-G082019 **Lab ID:** 19081608-11
Collection Date: 8/20/2019 01:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*96.7*		*85-110*	*%REC*	1	8/27/2019 02:52 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW82(58)-G082019 **Lab ID:** 19081608-12
Collection Date: 8/20/2019 02:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 03:16 AM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 03:16 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Acetone	ND		10	µg/L	1	8/27/2019 03:16 AM
Benzene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Bromoform	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Chloroform	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 03:16 AM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 03:16 AM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Styrene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Toluene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 03:16 AM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 03:16 AM
Surr: 1,2-Dichloroethane-d4	*104*		*75-120*	*%REC*	1	8/27/2019 03:16 AM
Surr: 4-Bromofluorobenzene	*96.8*		*80-110*	*%REC*	1	8/27/2019 03:16 AM
Surr: Dibromofluoromethane	*96.6*		*85-115*	*%REC*	1	8/27/2019 03:16 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW82(58)-G082019 **Lab ID:** 19081608-12
Collection Date: 8/20/2019 02:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	8/27/2019 03:16 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW20(51)-G082019 **Lab ID:** 19081608-13
Collection Date: 8/20/2019 01:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 03:40 AM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 03:40 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Acetone	ND		10	µg/L	1	8/27/2019 03:40 AM
Benzene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Bromoform	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Chloroform	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 03:40 AM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 03:40 AM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Styrene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Toluene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 03:40 AM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 03:40 AM
Surr: 1,2-Dichloroethane-d4	*98.0*		*75-120*	*%REC*	1	8/27/2019 03:40 AM
Surr: 4-Bromofluorobenzene	*94.2*		*80-110*	*%REC*	1	8/27/2019 03:40 AM
Surr: Dibromofluoromethane	*98.0*		*85-115*	*%REC*	1	8/27/2019 03:40 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW20(51)-G082019 **Lab ID:** 19081608-13
Collection Date: 8/20/2019 01:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.2*		*85-110*	*%REC*	1	8/27/2019 03:40 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW25(16.4)-G082019 **Lab ID:** 19081608-14
Collection Date: 8/20/2019 11:30 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 04:04 AM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 04:04 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Acetone	ND		10	µg/L	1	8/27/2019 04:04 AM
Benzene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Bromoform	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Chloroform	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 04:04 AM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 04:04 AM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Styrene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Toluene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 04:04 AM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 04:04 AM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	8/27/2019 04:04 AM
Surr: 4-Bromofluorobenzene	*95.1*		*80-110*	*%REC*	1	8/27/2019 04:04 AM
Surr: Dibromofluoromethane	*96.7*		*85-115*	*%REC*	1	8/27/2019 04:04 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW25(16.4)-G082019 **Lab ID:** 19081608-14
Collection Date: 8/20/2019 11:30 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.8*		*85-110*	*%REC*	1	8/27/2019 04:04 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW6C-G082119 **Lab ID:** 19081608-15
Collection Date: 8/21/2019 02:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 04:28 AM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 04:28 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Acetone	ND		10	µg/L	1	8/27/2019 04:28 AM
Benzene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Bromoform	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Chloroform	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Chloromethane	**1.5**		**1.0**	**µg/L**	1	8/27/2019 04:28 AM
cis-1,2-Dichloroethene	**4.0**		**1.0**	**µg/L**	1	8/27/2019 04:28 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 04:28 AM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 04:28 AM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Styrene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Toluene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 04:28 AM
Vinyl chloride	**2.3**		**1.0**	**µg/L**	1	8/27/2019 04:28 AM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 04:28 AM
Surr: 1,2-Dichloroethane-d4	*104*		*75-120*	*%REC*	1	8/27/2019 04:28 AM
Surr: 4-Bromofluorobenzene	*93.0*		*80-110*	*%REC*	1	8/27/2019 04:28 AM
Surr: Dibromofluoromethane	*98.2*		*85-115*	*%REC*	1	8/27/2019 04:28 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-MW6C-G082119 **Lab ID:** 19081608-15
Collection Date: 8/21/2019 02:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	8/27/2019 04:28 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-EB001-082119 **Lab ID:** 19081608-16
Collection Date: 8/21/2019 02:10 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 04:00 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 04:00 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Acetone	ND		10	µg/L	1	8/26/2019 04:00 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 04:00 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 04:00 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 04:00 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 04:00 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/26/2019 04:00 PM
Surr: 4-Bromofluorobenzene	*95.2*		*80-110*	*%REC*	1	8/26/2019 04:00 PM
Surr: Dibromofluoromethane	*104*		*85-115*	*%REC*	1	8/26/2019 04:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-EB001-082119 **Lab ID:** 19081608-16
Collection Date: 8/21/2019 02:10 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*103*		*85-110*	*%REC*	1	8/26/2019 04:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-TR003-082119 **Lab ID:** 19081608-17
Collection Date: 8/21/2019 **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
2-Butanone	ND		5.0	µg/L	1	8/26/2019 04:24 PM
2-Hexanone	ND		5.0	µg/L	1	8/26/2019 04:24 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Acetone	ND		10	µg/L	1	8/26/2019 04:24 PM
Benzene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Bromoform	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Bromomethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Carbon disulfide	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Chlorobenzene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Chloroethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Chloroform	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Chloromethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Ethylbenzene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
m,p-Xylene	ND		2.0	µg/L	1	8/26/2019 04:24 PM
Methylene chloride	ND		5.0	µg/L	1	8/26/2019 04:24 PM
o-Xylene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Styrene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Toluene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Trichloroethene	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Vinyl chloride	ND		1.0	µg/L	1	8/26/2019 04:24 PM
Xylenes, Total	ND		3.0	µg/L	1	8/26/2019 04:24 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	8/26/2019 04:24 PM
Surr: 4-Bromofluorobenzene	*96.3*		*80-110*	*%REC*	1	8/26/2019 04:24 PM
Surr: Dibromofluoromethane	*99.8*		*85-115*	*%REC*	1	8/26/2019 04:24 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081608
Sample ID: ATR-TR003-082119 **Lab ID:** 19081608-17
Collection Date: 8/21/2019 **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	8/26/2019 04:24 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **R269156** Instrument ID **VMS6** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190826-R269156** Units: **µg/L** Analysis Date: **8/26/2019 11:33 AM**

Client ID: Run ID: **VMS6_190826A** SeqNo: **5875548** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*19.94*	0	*20*	0	*99.7*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.41*	0	*20*	0	*97*	*80-110*	0			
Surr: Dibromofluoromethane	*20.41*	0	*20*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*20.25*	0	*20*	0	*101*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269156** Instrument ID **VMS6** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190826-R269156** Units: **µg/L** Analysis Date: **8/26/2019 10:21 AM**
Client ID: Run ID: **VMS6_190826A** SeqNo: **5875543** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	23.14	1.0	20	0	116	75-130	0			
1,1,2,2-Tetrachloroethane	20.04	1.0	20	0	100	75-130	0			
1,1,2-Trichloroethane	18.7	1.0	20	0	93.5	75-125	0			
1,1-Dichloroethane	24.42	1.0	20	0	122	68-142	0			
1,1-Dichloroethene	24.51	1.0	20	0	123	70-145	0			
1,2-Dichloroethane	19.5	1.0	20	0	97.5	78-125	0			
1,2-Dichloropropane	19.03	1.0	20	0	95.2	75-125	0			
2-Butanone	19.71	5.0	20	0	98.6	55-150	0			
2-Hexanone	16.47	5.0	20	0	82.4	60-135	0			
4-Methyl-2-pentanone	24.88	1.0	20	0	124	77-178	0			
Acetone	25.93	10	20	0	130	60-160	0			
Benzene	19.91	1.0	20	0	99.6	70-130	0			
Bromodichloromethane	22.44	1.0	20	0	112	75-125	0			
Bromoform	20.49	1.0	20	0	102	60-125	0			
Bromomethane	26.42	1.0	20	0	132	30-185	0			
Carbon disulfide	27.44	1.0	20	0	137	60-165	0			
Carbon tetrachloride	22.15	1.0	20	0	111	65-140	0			
Chlorobenzene	19.83	1.0	20	0	99.2	80-120	0			
Chloroethane	22.31	1.0	20	0	112	31-172	0			
Chloroform	21.78	1.0	20	0	109	66-135	0			
Chloromethane	24.95	1.0	20	0	125	46-148	0			
cis-1,2-Dichloroethene	23.37	1.0	20	0	117	75-134	0			
cis-1,3-Dichloropropene	23.5	1.0	20	0	118	70-130	0			
Dibromochloromethane	20.01	1.0	20	0	100	60-115	0			
Ethylbenzene	20.92	1.0	20	0	105	76-123	0			
m,p-Xylene	41.7	2.0	40	0	104	75-130	0			
Methylene chloride	21.69	5.0	20	0	108	72-125	0			
o-Xylene	21.07	1.0	20	0	105	76-127	0			
Styrene	21.42	1.0	20	0	107	83-137	0			
Tetrachloroethene	20.53	1.0	20	0	103	68-166	0			
Toluene	20.99	1.0	20	0	105	76-125	0			
trans-1,2-Dichloroethene	24.21	1.0	20	0	121	80-140	0			
trans-1,3-Dichloropropene	19.39	1.0	20	0	97	56-132	0			
Trichloroethene	20.97	1.0	20	0	105	77-125	0			
Vinyl chloride	23.61	1.0	20	0	118	50-136	0			
Xylenes, Total	62.77	3.0	60	0	105	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.17*	0	*20*	0	*95.8*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.22*	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethane	*20.28*	0	*20*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*19.76*	0	*20*	0	*98.8*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269156** Instrument ID **VMS6** Method: **SW8260C**

MS Sample ID: **19081281-04A MS** Units: **µg/L** Analysis Date: **8/26/2019 09:14 PM**
Client ID: Run ID: **VMS6_190826A** SeqNo: **5875599** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	132.2	5.0	100	0	132	75-130	0			S
1,1,2,2-Tetrachloroethane	103.6	5.0	100	0	104	75-130	0			
1,1,2-Trichloroethane	102.5	5.0	100	0	102	75-125	0			
1,1-Dichloroethane	131	5.0	100	0	131	68-142	0			
1,1-Dichloroethene	133.2	5.0	100	0	133	70-145	0			
1,2-Dichloroethane	107.7	5.0	100	0	108	78-125	0			
1,2-Dichloropropane	105.5	5.0	100	0	106	75-125	0			
2-Butanone	87	25	100	0	87	55-150	0			
2-Hexanone	76.7	25	100	0	76.7	60-135	0			
4-Methyl-2-pentanone	113	5.0	100	0	113	77-178	0			
Acetone	100.2	50	100	3.15	97.1	60-160	0			
Benzene	109.4	5.0	100	3.65	106	70-130	0			
Bromodichloromethane	108.2	5.0	100	0	108	75-125	0			
Bromoform	96.25	5.0	100	0	96.2	60-125	0			
Bromomethane	71.1	5.0	100	0	71.1	30-185	0			
Carbon disulfide	115.7	5.0	100	0	116	60-165	0			
Carbon tetrachloride	117.8	5.0	100	0	118	65-140	0			
Chlorobenzene	105.8	5.0	100	0	106	80-120	0			
Chloroethane	119.4	5.0	100	0	119	31-172	0			
Chloroform	117.7	5.0	100	0	118	66-135	0			
Chloromethane	114.5	5.0	100	0	114	46-148	0			
cis-1,2-Dichloroethene	231.4	5.0	100	112.4	119	75-134	0			
cis-1,3-Dichloropropene	116	5.0	100	0	116	70-130	0			
Dibromochloromethane	95.25	5.0	100	0	95.2	60-115	0			
Ethylbenzene	117.2	5.0	100	0	117	76-123	0			
m,p-Xylene	237.2	10	200	0	119	75-130	0			
Methylene chloride	117	25	100	0	117	72-125	0			
o-Xylene	117.6	5.0	100	0	118	76-127	0			
Styrene	115	5.0	100	0	115	83-137	0			
Tetrachloroethene	117.8	5.0	100	0	118	68-166	0			
Toluene	116	5.0	100	0	116	76-125	0			
trans-1,2-Dichloroethene	129.2	5.0	100	0	129	80-140	0			
trans-1,3-Dichloropropene	88.95	5.0	100	0	89	56-132	0			
Trichloroethene	160.2	5.0	100	42.1	118	77-125	0			
Vinyl chloride	118.8	5.0	100	3.6	115	50-136	0			
Xylenes, Total	354.8	15	300	0	118	76-127	0			
Surr: 1,2-Dichloroethane-d4	*94.55*	0	*100*	0	*94.6*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*103.8*	0	*100*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*100.9*	0	*100*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*98.25*	0	*100*	0	*98.2*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269156** Instrument ID **VMS6** Method: **SW8260C**

MSD Sample ID: **19081281-04A MSD** Units: **µg/L** Analysis Date: **8/26/2019 09:38 PM**
Client ID: Run ID: **VMS6_190826A** SeqNo: **5875600** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	129	5.0	100	0	129	75-130	132.2	2.53	30	
1,1,2,2-Tetrachloroethane	104.8	5.0	100	0	105	75-130	103.6	1.15	30	
1,1,2-Trichloroethane	102.6	5.0	100	0	103	75-125	102.5	0.0975	30	
1,1-Dichloroethane	129.2	5.0	100	0	129	68-142	131	1.38	30	
1,1-Dichloroethene	131.6	5.0	100	0	132	70-145	133.2	1.25	30	
1,2-Dichloroethane	107.3	5.0	100	0	107	78-125	107.7	0.372	30	
1,2-Dichloropropane	107	5.0	100	0	107	75-125	105.5	1.41	30	
2-Butanone	96.55	25	100	0	96.6	55-150	87	10.4	30	
2-Hexanone	73.15	25	100	0	73.2	60-135	76.7	4.74	30	
4-Methyl-2-pentanone	105	5.0	100	0	105	77-178	113	7.43	30	
Acetone	99.25	50	100	3.15	96.1	60-160	100.2	1	30	
Benzene	108.9	5.0	100	3.65	105	70-130	109.4	0.504	30	
Bromodichloromethane	114	5.0	100	0	114	75-125	108.2	5.27	30	
Bromoform	93.1	5.0	100	0	93.1	60-125	96.25	3.33	30	
Bromomethane	88.2	5.0	100	0	88.2	30-185	71.1	21.5	30	
Carbon disulfide	113.6	5.0	100	0	114	60-165	115.7	1.83	30	
Carbon tetrachloride	123	5.0	100	0	123	65-140	117.8	4.28	30	
Chlorobenzene	104.4	5.0	100	0	104	80-120	105.8	1.33	30	
Chloroethane	116	5.0	100	0	116	31-172	119.4	2.93	30	
Chloroform	114.8	5.0	100	0	115	66-135	117.7	2.49	30	
Chloromethane	101.2	5.0	100	0	101	46-148	114.5	12.3	30	
cis-1,2-Dichloroethene	229.3	5.0	100	112.4	117	75-134	231.4	0.912	30	
cis-1,3-Dichloropropene	109.4	5.0	100	0	109	70-130	116	5.85	30	
Dibromochloromethane	92.05	5.0	100	0	92	60-115	95.25	3.42	30	
Ethylbenzene	114.4	5.0	100	0	114	76-123	117.2	2.46	30	
m,p-Xylene	228.4	10	200	0	114	75-130	237.2	3.78	30	
Methylene chloride	112.4	25	100	0	112	72-125	117	4.01	30	
o-Xylene	113	5.0	100	0	113	76-127	117.6	3.99	30	
Styrene	113.3	5.0	100	0	113	83-137	115	1.45	30	
Tetrachloroethene	113	5.0	100	0	113	68-166	117.8	4.16	30	
Toluene	111.4	5.0	100	0	111	76-125	116	4.04	30	
trans-1,2-Dichloroethene	125.6	5.0	100	0	126	80-140	129.2	2.83	30	
trans-1,3-Dichloropropene	86.05	5.0	100	0	86	56-132	88.95	3.31	30	
Trichloroethene	160.2	5.0	100	42.1	118	77-125	160.2	0.0624	30	
Vinyl chloride	114.5	5.0	100	3.6	111	50-136	118.8	3.73	30	
Xylenes, Total	341.4	15	300	0	114	76-127	354.8	3.85	30	
Surr: 1,2-Dichloroethane-d4	*97*	0	*100*	0	*97*	*75-120*	94.55	*2.56*	*30*	
Surr: 4-Bromofluorobenzene	*102*	0	*100*	0	*102*	*80-110*	103.8	*1.75*	*30*	
Surr: Dibromofluoromethane	*104.6*	0	*100*	0	*105*	*85-115*	100.9	*3.6*	*30*	
Surr: Toluene-d8	*96.85*	0	*100*	0	*96.8*	*85-110*	98.25	*1.44*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269156** Instrument ID **VMS6** Method: **SW8260C**

The following samples were analyzed in this batch:

19081608-01A	19081608-02A	19081608-03A
19081608-04A	19081608-05A	19081608-06A
19081608-07A	19081608-08A	19081608-09A
19081608-10A	19081608-16A	19081608-17A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269208a** Instrument ID **VMS6** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-190826-R269208a** Units: **µg/L** Analysis Date: **8/27/2019 12:51 PM**
Client ID: Run ID: **VMS6_190826B** SeqNo: **5875838** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*20*	0	*20*	0	*100*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.14*	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethane	*19.43*	0	*20*	0	*97.2*	*85-115*	0			
Surr: Toluene-d8	*19.78*	0	*20*	0	*98.9*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269208a** Instrument ID **VMS6** Method: **SW8260C**

LCS Sample ID: **VLCSW2-190826-R269208a** Units: **µg/L** Analysis Date: **8/26/2019 11:39 PM**
Client ID: Run ID: **VMS6_190826B** SeqNo: **5875801** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.73	1.0	20	0	98.6	75-130	0			
1,1,2,2-Tetrachloroethane	20.14	1.0	20	0	101	75-130	0			
1,1,2-Trichloroethane	19.42	1.0	20	0	97.1	75-125	0			
1,1-Dichloroethane	22.63	1.0	20	0	113	68-142	0			
1,1-Dichloroethene	19.94	1.0	20	0	99.7	70-145	0			
1,2-Dichloroethane	19.45	1.0	20	0	97.2	78-125	0			
1,2-Dichloropropane	18.48	1.0	20	0	92.4	75-125	0			
2-Butanone	18.03	5.0	20	0	90.2	55-150	0			
2-Hexanone	16.16	5.0	20	0	80.8	60-135	0			
4-Methyl-2-pentanone	21.75	1.0	20	0	109	77-178	0			
Acetone	23.09	10	20	0	115	60-160	0			
Benzene	18.7	1.0	20	0	93.5	70-130	0			
Bromodichloromethane	19.22	1.0	20	0	96.1	75-125	0			
Bromoform	18.12	1.0	20	0	90.6	60-125	0			
Bromomethane	21.59	1.0	20	0	108	30-185	0			
Carbon disulfide	19.15	1.0	20	0	95.8	60-165	0			
Carbon tetrachloride	17.9	1.0	20	0	89.5	65-140	0			
Chlorobenzene	18.75	1.0	20	0	93.8	80-120	0			
Chloroethane	18.74	1.0	20	0	93.7	31-172	0			
Chloroform	19.49	1.0	20	0	97.4	66-135	0			
Chloromethane	17.95	1.0	20	0	89.8	46-148	0			
cis-1,2-Dichloroethene	20.88	1.0	20	0	104	75-134	0			
cis-1,3-Dichloropropene	20.74	1.0	20	0	104	70-130	0			
Dibromochloromethane	17.4	1.0	20	0	87	60-115	0			
Ethylbenzene	19.78	1.0	20	0	98.9	76-123	0			
m,p-Xylene	39.77	2.0	40	0	99.4	75-130	0			
Methylene chloride	20.56	5.0	20	0	103	72-125	0			
o-Xylene	20.39	1.0	20	0	102	76-127	0			
Styrene	20.56	1.0	20	0	103	83-137	0			
Tetrachloroethene	18.7	1.0	20	0	93.5	68-166	0			
Toluene	19.62	1.0	20	0	98.1	76-125	0			
trans-1,2-Dichloroethene	21.43	1.0	20	0	107	80-140	0			
trans-1,3-Dichloropropene	16.76	1.0	20	0	83.8	56-132	0			
Trichloroethene	19.14	1.0	20	0	95.7	77-125	0			
Vinyl chloride	17.84	1.0	20	0	89.2	50-136	0			
Xylenes, Total	60.16	3.0	60	0	100	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.94*	0	*20*	0	*99.7*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.45*	0	*20*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethane	*19.16*	0	*20*	0	*95.8*	*85-115*	0			
Surr: Toluene-d8	*18.65*	0	*20*	0	*93.2*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269208a** Instrument ID **VMS6** Method: **SW8260C**

MS Sample ID: **19081366-35B MS** Units: **µg/L** Analysis Date: **8/27/2019 09:41 AM**
Client ID: Run ID: **VMS6_190826B** SeqNo: **5875836** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.99	1.0	20	0	115	75-130	0			
1,1,2,2-Tetrachloroethane	18.83	1.0	20	0	94.2	75-130	0			
1,1,2-Trichloroethane	18.76	1.0	20	0	93.8	75-125	0			
1,1-Dichloroethane	23.7	1.0	20	0	118	68-142	0			
1,1-Dichloroethene	25.15	1.0	20	0	126	70-145	0			
1,2-Dichloroethane	19.98	1.0	20	0	99.9	78-125	0			
1,2-Dichloropropane	20.38	1.0	20	0	102	75-125	0			
2-Butanone	16.94	5.0	20	0	84.7	55-150	0			
2-Hexanone	14.21	5.0	20	0	71	60-135	0			
4-Methyl-2-pentanone	20.55	1.0	20	0	103	77-178	0			
Acetone	20.87	10	20	1.4	97.4	60-160	0			
Benzene	21.91	1.0	20	0	110	70-130	0			
Bromodichloromethane	19.76	1.0	20	0	98.8	75-125	0			
Bromoform	15.69	1.0	20	0	78.4	60-125	0			
Bromomethane	17.5	1.0	20	0	87.5	30-185	0			
Carbon disulfide	18.87	1.0	20	0	94.4	60-165	0			
Carbon tetrachloride	20.99	1.0	20	0	105	65-140	0			
Chlorobenzene	19.73	1.0	20	0	98.6	80-120	0			
Chloroethane	19.17	1.0	20	0	95.8	31-172	0			
Chloroform	19.84	1.0	20	0	99.2	66-135	0			
Chloromethane	21.13	1.0	20	0	106	46-148	0			
cis-1,2-Dichloroethene	21.57	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	19	1.0	20	0	95	70-130	0			
Dibromochloromethane	14.94	1.0	20	0	74.7	60-115	0			
Ethylbenzene	21.69	1.0	20	0	108	76-123	0			
m,p-Xylene	44.12	2.0	40	0	110	75-130	0			
Methylene chloride	20.98	5.0	20	0	105	72-125	0			
o-Xylene	22.17	1.0	20	0	111	76-127	0			
Styrene	20.97	1.0	20	0.7	101	83-137	0			
Tetrachloroethene	21.17	1.0	20	0	106	68-166	0			
Toluene	21.72	1.0	20	0	109	76-125	0			
trans-1,2-Dichloroethene	23.32	1.0	20	0	117	80-140	0			
trans-1,3-Dichloropropene	13.97	1.0	20	0	69.8	56-132	0			
Trichloroethene	22.09	1.0	20	0	110	77-125	0			
Vinyl chloride	21.43	1.0	20	0	107	50-136	0			
Xylenes, Total	66.29	3.0	60	0	110	76-127	0			
Surr: 1,2-Dichloroethane-d4	*20.28*	0	*20*	0	*101*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.99*	0	*20*	0	*100*	*80-110*	0			
Surr: Dibromofluoromethane	*19.61*	0	*20*	0	*98*	*85-115*	0			
Surr: Toluene-d8	*19.67*	0	*20*	0	*98.4*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269208a** Instrument ID **VMS6** Method: **SW8260C**

MSD Sample ID: **19081366-35B MSD** Units: **µg/L** Analysis Date: **8/27/2019 10:06 AM**
Client ID: Run ID: **VMS6_190826B** SeqNo: **5875837** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.39	1.0	20	0	112	75-130	22.99	2.64	30	
1,1,2,2-Tetrachloroethane	18.8	1.0	20	0	94	75-130	18.83	0.159	30	
1,1,2-Trichloroethane	18.79	1.0	20	0	94	75-125	18.76	0.16	30	
1,1-Dichloroethane	24.94	1.0	20	0	125	68-142	23.7	5.1	30	
1,1-Dichloroethene	25.22	1.0	20	0	126	70-145	25.15	0.278	30	
1,2-Dichloroethane	19.72	1.0	20	0	98.6	78-125	19.98	1.31	30	
1,2-Dichloropropane	19.87	1.0	20	0	99.4	75-125	20.38	2.53	30	
2-Butanone	16.1	5.0	20	0	80.5	55-150	16.94	5.08	30	
2-Hexanone	15.17	5.0	20	0	75.8	60-135	14.21	6.54	30	
4-Methyl-2-pentanone	22.22	1.0	20	0	111	77-178	20.55	7.81	30	
Acetone	18.18	10	20	1.4	83.9	60-160	20.87	13.8	30	
Benzene	21.07	1.0	20	0	105	70-130	21.91	3.91	30	
Bromodichloromethane	19.15	1.0	20	0	95.8	75-125	19.76	3.14	30	
Bromoform	15.94	1.0	20	0	79.7	60-125	15.69	1.58	30	
Bromomethane	19.57	1.0	20	0	97.8	30-185	17.5	11.2	30	
Carbon disulfide	19.63	1.0	20	0	98.2	60-165	18.87	3.95	30	
Carbon tetrachloride	21.72	1.0	20	0	109	65-140	20.99	3.42	30	
Chlorobenzene	19.67	1.0	20	0	98.4	80-120	19.73	0.305	30	
Chloroethane	21.03	1.0	20	0	105	31-172	19.17	9.25	30	
Chloroform	21.23	1.0	20	0	106	66-135	19.84	6.77	30	
Chloromethane	21.31	1.0	20	0	107	46-148	21.13	0.848	30	
cis-1,2-Dichloroethene	21.86	1.0	20	0	109	75-134	21.57	1.34	30	
cis-1,3-Dichloropropene	17.87	1.0	20	0	89.4	70-130	19	6.13	30	
Dibromochloromethane	16.26	1.0	20	0	81.3	60-115	14.94	8.46	30	
Ethylbenzene	21.82	1.0	20	0	109	76-123	21.69	0.598	30	
m,p-Xylene	43.76	2.0	40	0	109	75-130	44.12	0.819	30	
Methylene chloride	21.75	5.0	20	0	109	72-125	20.98	3.6	30	
o-Xylene	21.63	1.0	20	0	108	76-127	22.17	2.47	30	
Styrene	21.2	1.0	20	0.7	102	83-137	20.97	1.09	30	
Tetrachloroethene	22.72	1.0	20	0	114	68-166	21.17	7.06	30	
Toluene	22.01	1.0	20	0	110	76-125	21.72	1.33	30	
trans-1,2-Dichloroethene	23.1	1.0	20	0	116	80-140	23.32	0.948	30	
trans-1,3-Dichloropropene	14.48	1.0	20	0	72.4	56-132	13.97	3.59	30	
Trichloroethene	21.23	1.0	20	0	106	77-125	22.09	3.97	30	
Vinyl chloride	22.73	1.0	20	0	114	50-136	21.43	5.89	30	
Xylenes, Total	65.39	3.0	60	0	109	76-127	66.29	1.37	30	
Surr: 1,2-Dichloroethane-d4	*19.1*	0	*20*	0	*95.5*	*75-120*	20.28	*5.99*	*30*	
Surr: 4-Bromofluorobenzene	*19.97*	0	*20*	0	*99.8*	*80-110*	19.99	*0.1*	*30*	
Surr: Dibromofluoromethane	*20.17*	0	*20*	0	*101*	*85-115*	19.61	*2.82*	*30*	
Surr: Toluene-d8	*19.34*	0	*20*	0	*96.7*	*85-110*	19.67	*1.69*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081608
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269208a** Instrument ID **VMS6** Method: **SW8260C**

The following samples were analyzed in this batch:

19081608-11A	19081608-12A	19081608-13A
19081608-14A	19081608-15A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
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Chain of Custody Form

Page 1 of 2

COC ID: 18798

ALS Project Manager: EB

ALS Work Order #: 19081608

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	C0126091O2	Project Name	Stability and Annual	A	VOCs
Work Order		Project Number	3359 15 10410	B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To	Paul Stork	Invoice Attn	Accounts Payable	D	
Address	521 Byers Road, Suite 204	Address	521 Byers Road, Suite 204	E	
				F	
City/State/Zip	Miamisburg, OH 45342	City/State/Zip	Miamisburg, OH 45342	G	
Phone	(937) 859-3600	Phone	(937) 859-3600	H	
Fax	(937) 859-7951	Fax	(937) 859-7951	I	
e-Mail Address	Paul.Stork@woodplc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	ATR-MW26(28.8)-G081919	8/19/19	1450	GW	1	3	X										
2	ATR-MW26(68.2)-G081919	8/19/19	1405	GW	1	3	X										
3	ATR-MW26(17.5)-G081919	8/19/19	1610	GW	1	3	X										
4	ATR-EB001-081919	8/19/19	1420	W	1	3	X										
5	ATR-MW27(18)-G081919	8/19/19	1600	GW	1	3	X										
6	ATR-MW27(18)-G081919R	8/19/19	1600	GW	1	3	X										
7	ATR-MW14-G082019	8/20/19	0835	GW	1	3	X										
8	ATR-MW15-G082019	8/20/19	0955	GW	1	3	X										
9	ATR-MW25(82)-G082019	8/20/19	1045	GW	1	3	X										
10	ATR-MW25(32.6)-G082019	8/20/19	1215	GW	1	3	X										

Sampler(s) Please Print & Sign:

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ Other ____ ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 8/21/19	Time: 1545	Received by:	
Relinquished by:	Date: 8/21/19	Time: 1615	Received by (Laboratory):	Date: 8/22/19 Time: 0930
Logged by (Laboratory): DES	Date: 8/22/19	Time: 1445	Checked by (Laboratory): EB	

Notes:

Cooler ID	Cooler Temp.
SR2	4.8°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☑ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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York, PA +1 717 505 5280

Chain of Custody Form

Page 2 of 2

COC ID: 187811

ALS Project Manager: ER | ALS Work Order #: 1908160 8

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	C0126091 02	Project Name	Stability and Annual	A	VOCs
Work Order		Project Number	335915 1040	B	
Company Name	Wood Environment & Infrastructure Soluti ons Inc	Bill To Company	Wood Environment & Infrastructure Sol utions Inc	C	
Send Report To	Paul Stork	Invoice Attn	Accounts Payable	D	
Address	521 Byers Road, Suite 204	Address	521 Byers Road, Suite 204	E	
				F	
City/State/Zip	Miamisburg, OH 45342	City/State/Zip	Miamisburg, OH 45342	G	
Phone	(937) 859-3600	Phone	(937) 859-3600	H	
Fax	(937) 859-7951	Fax	(937) 859-7951	I	
e-Mail Address	Paul.Stork@woodpc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
11	ATR-MW17 - G082019	8/20/19	1320	GW	1	3	X										
12	ATR-MW82(58)-G082019	8/20/19	1450	GW	1	3	X										
13	ATR-MW20(51)-G082019	8/20/19	1320	GW	1	3	X										
14	ATR-MW25(16.4)-G082019	8/20/19	1130	GW	1	3	X										
15	ATR-MW6C - G082119	8/21/19	1450	GW	1	3	X										
16	ATR-EB001 - 082119	8/21/19	1410	GW	1	3	X										
17	ATR-TR003 - 082119	8/21/19		GW	1	3	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: [signature] Date: 8/21/19 Time: 1545 Received by: [signature]

Relinquished by: [signature] Date: 8/21/19 Time: 1615 Received by (Laboratory): [signature] 8/22/19 0930

Logged by (Laboratory): DES Date: 8/22/19 Time: 1445 Checked by (Laboratory): ER

Notes:

Cooler ID	Cooler Temp.
SR2	4.8°c

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☑ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **WOOD-DAYTON** Date/Time Received: **22-Aug-19 09:30**

Work Order: **19081608** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 22-Aug-19 (Date) Reviewed by: Ehrland Bosworth (eSignature) 22-Aug-19 (Date)

Matrices: Groundwater, Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.8/4.8 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/22/2019 3:16:26 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

28-Aug-2019

Paul Stork
Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342

Re: **TFS Rochester (3359-15-1040)** Work Order: **19081622**

Dear Paul,

ALS Environmental received 14 samples on 22-Aug-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Ehrland Bosworth

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS Group, USA

Date: 28-Aug-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
Work Order: **19081622**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19081622-01	ATR-OW1(39)-G082119	Groundwater		8/21/2019 14:00	8/22/2019 09:30	☐
19081622-02	ATR-OW2(33)-G082119	Groundwater		8/21/2019 13:10	8/22/2019 09:30	☐
19081622-03	ATR-OW2(53)-G082119	Groundwater		8/21/2019 12:25	8/22/2019 09:30	☐
19081622-04	ATR-OW3(35)-G082119	Groundwater		8/21/2019 12:25	8/22/2019 09:30	☐
19081622-05	ATR-OW3(55)-G082119	Groundwater		8/21/2019 11:50	8/22/2019 09:30	☐
19081622-06	ATR-OW4(35)-G082119	Groundwater		8/21/2019 11:40	8/22/2019 09:30	☐
19081622-07	ATR-OW4(54)-G082119	Groundwater		8/21/2019 11:05	8/22/2019 09:30	☐
19081622-08	ATR-OW5(16)-G082119	Groundwater		8/21/2019 11:00	8/22/2019 09:30	☐
19081622-09	ATR-OW5(35)-G082119	Groundwater		8/21/2019 10:20	8/22/2019 09:30	☐
19081622-10	ATR-OW5(44)-G082119	Groundwater		8/21/2019 09:05	8/22/2019 09:30	☐
19081622-11	ATR-OW6(37)-G082119	Groundwater		8/21/2019 10:10	8/22/2019 09:30	☐
19081622-12	ATR-OW6(63)-G082119	Groundwater		8/21/2019 09:25	8/22/2019 09:30	☐
19081622-13	ATR-OW6(63)-G082119R	Groundwater		8/21/2019 09:25	8/22/2019 09:30	☐
19081622-14	ATR-TB002-082119	Water		8/21/2019	8/22/2019 09:30	☐

ALS Group, USA

Date: 28-Aug-19

Client: Wood Environment & Infrastructure Solutions, Inc
Project: TFS Rochester (3359-15-1040)
Work Order: 19081622

Case Narrative

Samples for the above noted Work Order were received on 08/22/19. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch R269277, Method VOC_8260_W, Sample 19081622-01A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Chloroethane and 2-Hexanone.

Batch R269277, Method VOC_8260_W, Sample 19081622-02A MS and -02A MSD: The VOC MS and/or MSD recoveries were above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary for Vinyl Chloride.

Batch R269277, Method VOC_8260_W, Sample 19081622-02A MSD: The VOC MSD recovery was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required for Methylene Chloride.

Batch R269277, Method VOC_8260_W, Sample 19081622-14A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Chloroethane and 2-Hexanone.

No other deviations or anomalies were noted.

ALS Group, USA

Date: 28-Aug-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
WorkOrder: **19081622**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

ALS Group, USA

Date: *28-Aug-19*

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW1(39)-G082119 **Lab ID:** 19081622-01
Collection Date: 8/21/2019 02:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 04:36 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 04:36 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Acetone	ND		10	µg/L	1	8/27/2019 04:36 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 04:36 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 04:36 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 04:36 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 04:36 PM
Surr: 1,2-Dichloroethane-d4	*96.3*		*75-120*	*%REC*	1	8/27/2019 04:36 PM
Surr: 4-Bromofluorobenzene	*94.2*		*80-110*	*%REC*	1	8/27/2019 04:36 PM
Surr: Dibromofluoromethane	*90.1*		*85-115*	*%REC*	1	8/27/2019 04:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW1(39)-G082119 **Lab ID:** 19081622-01
Collection Date: 8/21/2019 02:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*93.9*		*85-110*	*%REC*	1	8/27/2019 04:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW2(33)-G082119 **Lab ID:** 19081622-02
Collection Date: 8/21/2019 01:10 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 05:00 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 05:00 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Acetone	ND		10	µg/L	1	8/27/2019 05:00 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 05:00 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 05:00 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 05:00 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 05:00 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 05:00 PM
Surr: 4-Bromofluorobenzene	*95.0*		*80-110*	*%REC*	1	8/27/2019 05:00 PM
Surr: Dibromofluoromethane	*95.9*		*85-115*	*%REC*	1	8/27/2019 05:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW2(33)-G082119 **Lab ID:** 19081622-02
Collection Date: 8/21/2019 01:10 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*96.8*		*85-110*	*%REC*	1	8/27/2019 05:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW2(53)-G082119 **Lab ID:** 19081622-03
Collection Date: 8/21/2019 12:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 05:24 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 05:24 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Acetone	ND		10	µg/L	1	8/27/2019 05:24 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 05:24 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 05:24 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 05:24 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 05:24 PM
Surr: 1,2-Dichloroethane-d4	*106*		*75-120*	*%REC*	1	8/27/2019 05:24 PM
Surr: 4-Bromofluorobenzene	*94.6*		*80-110*	*%REC*	1	8/27/2019 05:24 PM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	1	8/27/2019 05:24 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW2(53)-G082119 **Lab ID:** 19081622-03
Collection Date: 8/21/2019 12:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.6*		*85-110*	*%REC*	1	8/27/2019 05:24 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW3(35)-G082119 **Lab ID:** 19081622-04
Collection Date: 8/21/2019 12:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 05:49 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 05:49 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Acetone	ND		10	µg/L	1	8/27/2019 05:49 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 05:49 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 05:49 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 05:49 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 05:49 PM
Surr: 1,2-Dichloroethane-d4	*104*		*75-120*	*%REC*	1	8/27/2019 05:49 PM
Surr: 4-Bromofluorobenzene	*96.2*		*80-110*	*%REC*	1	8/27/2019 05:49 PM
Surr: Dibromofluoromethane	*97.4*		*85-115*	*%REC*	1	8/27/2019 05:49 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW3(35)-G082119 **Lab ID:** 19081622-04
Collection Date: 8/21/2019 12:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.8*		*85-110*	*%REC*	1	8/27/2019 05:49 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW3(55)-G082119 **Lab ID:** 19081622-05
Collection Date: 8/21/2019 11:50 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
2-Butanone	**7.0**		**5.0**	**µg/L**	1	8/27/2019 06:13 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 06:13 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Acetone	ND		10	µg/L	1	8/27/2019 06:13 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 06:13 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 06:13 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 06:13 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 06:13 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 06:13 PM
Surr: 4-Bromofluorobenzene	*95.4*		*80-110*	*%REC*	1	8/27/2019 06:13 PM
Surr: Dibromofluoromethane	*98.1*		*85-115*	*%REC*	1	8/27/2019 06:13 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW3(55)-G082119 **Lab ID:** 19081622-05
Collection Date: 8/21/2019 11:50 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*96.4*		*85-110*	*%REC*	1	8/27/2019 06:13 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW4(35)-G082119 **Lab ID:** 19081622-06
Collection Date: 8/21/2019 11:40 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 06:37 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 06:37 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Acetone	ND		10	µg/L	1	8/27/2019 06:37 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 06:37 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 06:37 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 06:37 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 06:37 PM
Surr: 1,2-Dichloroethane-d4	*99.7*		*75-120*	*%REC*	1	8/27/2019 06:37 PM
Surr: 4-Bromofluorobenzene	*95.6*		*80-110*	*%REC*	1	8/27/2019 06:37 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	8/27/2019 06:37 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW4(35)-G082119 **Lab ID:** 19081622-06
Collection Date: 8/21/2019 11:40 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*95.2*		*85-110*	*%REC*	1	8/27/2019 06:37 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW4(54)-G082119 **Lab ID:** 19081622-07
Collection Date: 8/21/2019 11:05 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 07:01 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 07:01 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Acetone	ND		10	µg/L	1	8/27/2019 07:01 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 07:01 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 07:01 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 07:01 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 07:01 PM
Surr: 1,2-Dichloroethane-d4	*107*		*75-120*	*%REC*	1	8/27/2019 07:01 PM
Surr: 4-Bromofluorobenzene	*94.0*		*80-110*	*%REC*	1	8/27/2019 07:01 PM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	1	8/27/2019 07:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW4(54)-G082119 **Lab ID:** 19081622-07
Collection Date: 8/21/2019 11:05 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.4*		*85-110*	*%REC*	1	8/27/2019 07:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW5(16)-G082119 **Lab ID:** 19081622-08
Collection Date: 8/21/2019 11:00 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 07:25 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 07:25 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Acetone	ND		10	µg/L	1	8/27/2019 07:25 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 07:25 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 07:25 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 07:25 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 07:25 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 07:25 PM
Surr: 4-Bromofluorobenzene	*97.6*		*80-110*	*%REC*	1	8/27/2019 07:25 PM
Surr: Dibromofluoromethane	*99.2*		*85-115*	*%REC*	1	8/27/2019 07:25 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW5(16)-G082119 **Lab ID:** 19081622-08
Collection Date: 8/21/2019 11:00 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.8*		*85-110*	*%REC*	1	8/27/2019 07:25 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW5(35)-G082119 **Lab ID:** 19081622-09
Collection Date: 8/21/2019 10:20 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 07:50 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 07:50 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Acetone	ND		10	µg/L	1	8/27/2019 07:50 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 07:50 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 07:50 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 07:50 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 07:50 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 07:50 PM
Surr: 4-Bromofluorobenzene	*95.9*		*80-110*	*%REC*	1	8/27/2019 07:50 PM
Surr: Dibromofluoromethane	*93.7*		*85-115*	*%REC*	1	8/27/2019 07:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW5(35)-G082119 **Lab ID:** 19081622-09
Collection Date: 8/21/2019 10:20 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*92.8*		*85-110*	*%REC*	1	8/27/2019 07:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW5(44)-G082119 **Lab ID:** 19081622-10
Collection Date: 8/21/2019 09:05 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 08:14 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 08:14 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Acetone	ND		10	µg/L	1	8/27/2019 08:14 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 08:14 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 08:14 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 08:14 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 08:14 PM
Surr: 1,2-Dichloroethane-d4	*106*		*75-120*	*%REC*	1	8/27/2019 08:14 PM
Surr: 4-Bromofluorobenzene	*97.0*		*80-110*	*%REC*	1	8/27/2019 08:14 PM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	8/27/2019 08:14 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW5(44)-G082119 **Lab ID:** 19081622-10
Collection Date: 8/21/2019 09:05 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.4*		*85-110*	*%REC*	1	8/27/2019 08:14 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW6(37)-G082119 **Lab ID:** 19081622-11
Collection Date: 8/21/2019 10:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 08:38 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 08:38 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Acetone	ND		10	µg/L	1	8/27/2019 08:38 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 08:38 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 08:38 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 08:38 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 08:38 PM
Surr: 1,2-Dichloroethane-d4	*103*		*75-120*	*%REC*	1	8/27/2019 08:38 PM
Surr: 4-Bromofluorobenzene	*93.4*		*80-110*	*%REC*	1	8/27/2019 08:38 PM
Surr: Dibromofluoromethane	*95.2*		*85-115*	*%REC*	1	8/27/2019 08:38 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW6(37)-G082119 **Lab ID:** 19081622-11
Collection Date: 8/21/2019 10:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*92.1*		*85-110*	*%REC*	1	8/27/2019 08:38 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW6(63)-G082119 **Lab ID:** 19081622-12
Collection Date: 8/21/2019 09:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
2-Butanone	**55**		**5.0**	**µg/L**	1	8/27/2019 09:02 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 09:02 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Acetone	**19**		**10**	**µg/L**	1	8/27/2019 09:02 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 09:02 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 09:02 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 09:02 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 09:02 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	8/27/2019 09:02 PM
Surr: 4-Bromofluorobenzene	*95.1*		*80-110*	*%REC*	1	8/27/2019 09:02 PM
Surr: Dibromofluoromethane	*99.4*		*85-115*	*%REC*	1	8/27/2019 09:02 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW6(63)-G082119 **Lab ID:** 19081622-12
Collection Date: 8/21/2019 09:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.8*		*85-110*	*%REC*	1	8/27/2019 09:02 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW6(63)-G082119R **Lab ID:** 19081622-13
Collection Date: 8/21/2019 09:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
2-Butanone	**57**		**5.0**	**µg/L**	1	8/27/2019 09:26 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 09:26 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Acetone	**19**		**10**	**µg/L**	1	8/27/2019 09:26 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 09:26 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 09:26 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 09:26 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 09:26 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 09:26 PM
Surr: 4-Bromofluorobenzene	*92.7*		*80-110*	*%REC*	1	8/27/2019 09:26 PM
Surr: Dibromofluoromethane	*97.0*		*85-115*	*%REC*	1	8/27/2019 09:26 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-OW6(63)-G082119R **Lab ID:** 19081622-13
Collection Date: 8/21/2019 09:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.0*		*85-110*	*%REC*	1	8/27/2019 09:26 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-TB002-082119 **Lab ID:** 19081622-14
Collection Date: 8/21/2019 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **BG**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
2-Butanone	ND		5.0	µg/L	1	8/27/2019 04:12 PM
2-Hexanone	ND		5.0	µg/L	1	8/27/2019 04:12 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Acetone	**11**		**10**	**µg/L**	1	8/27/2019 04:12 PM
Benzene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Bromoform	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Bromomethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Carbon disulfide	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Chlorobenzene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Chloroethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Chloroform	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Chloromethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Ethylbenzene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
m,p-Xylene	ND		2.0	µg/L	1	8/27/2019 04:12 PM
Methylene chloride	ND		5.0	µg/L	1	8/27/2019 04:12 PM
o-Xylene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Styrene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Toluene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Trichloroethene	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Vinyl chloride	ND		1.0	µg/L	1	8/27/2019 04:12 PM
Xylenes, Total	ND		3.0	µg/L	1	8/27/2019 04:12 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	8/27/2019 04:12 PM
Surr: 4-Bromofluorobenzene	*93.4*		*80-110*	*%REC*	1	8/27/2019 04:12 PM
Surr: Dibromofluoromethane	*89.2*		*85-115*	*%REC*	1	8/27/2019 04:12 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081622
Sample ID: ATR-TB002-082119 **Lab ID:** 19081622-14
Collection Date: 8/21/2019 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.0*		*85-110*	*%REC*	1	8/27/2019 04:12 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **R269277** Instrument ID **VMS6** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190827-R269277** Units: **µg/L** Analysis Date: **8/27/2019 02:59 PM**

Client ID: Run ID: **VMS6_190827A** SeqNo: **5878306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*20.06*	0	*20*	0	*100*	*75-120*		0		
Surr: 4-Bromofluorobenzene	*18.98*	0	*20*	0	*94.9*	*80-110*		0		
Surr: Dibromofluoromethane	*18.76*	0	*20*	0	*93.8*	*85-115*		0		
Surr: Toluene-d8	*19.65*	0	*20*	0	*98.2*	*85-110*		0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081622
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269277** Instrument ID **VMS6** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190827-R269277** Units: **µg/L** Analysis Date: **8/27/2019 01:47 PM**
Client ID: Run ID: **VMS6_190827A** SeqNo: **5878305** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	18.85	1.0	20	0	94.2	75-130	0			
1,1,2,2-Tetrachloroethane	19.51	1.0	20	0	97.6	75-130	0			
1,1,2-Trichloroethane	19.16	1.0	20	0	95.8	75-125	0			
1,1-Dichloroethane	21.38	1.0	20	0	107	68-142	0			
1,1-Dichloroethene	18.87	1.0	20	0	94.4	70-145	0			
1,2-Dichloroethane	19.17	1.0	20	0	95.8	78-125	0			
1,2-Dichloropropane	18.41	1.0	20	0	92	75-125	0			
2-Butanone	19.01	5.0	20	0	95	55-150	0			
2-Hexanone	16.43	5.0	20	0	82.2	60-135	0			
4-Methyl-2-pentanone	23.82	1.0	20	0	119	77-178	0			
Acetone	22.02	10	20	0	110	60-160	0			
Benzene	18.57	1.0	20	0	92.8	70-130	0			
Bromodichloromethane	18.08	1.0	20	0	90.4	75-125	0			
Bromoform	16.48	1.0	20	0	82.4	60-125	0			
Bromomethane	18.22	1.0	20	0	91.1	30-185	0			
Carbon disulfide	17.28	1.0	20	0	86.4	60-165	0			
Carbon tetrachloride	16.87	1.0	20	0	84.4	65-140	0			
Chlorobenzene	19.14	1.0	20	0	95.7	80-120	0			
Chloroethane	18.02	1.0	20	0	90.1	31-172	0			
Chloroform	17.6	1.0	20	0	88	66-135	0			
Chloromethane	17.97	1.0	20	0	89.8	46-148	0			
cis-1,2-Dichloroethene	19.02	1.0	20	0	95.1	75-134	0			
cis-1,3-Dichloropropene	20.38	1.0	20	0	102	70-130	0			
Dibromochloromethane	15.02	1.0	20	0	75.1	60-115	0			
Ethylbenzene	19.85	1.0	20	0	99.2	76-123	0			
m,p-Xylene	39.44	2.0	40	0	98.6	75-130	0			
Methylene chloride	19.93	5.0	20	0	99.6	72-125	0			
o-Xylene	20.2	1.0	20	0	101	76-127	0			
Styrene	21.14	1.0	20	0	106	83-137	0			
Tetrachloroethene	19.24	1.0	20	0	96.2	68-166	0			
Toluene	19.43	1.0	20	0	97.2	76-125	0			
trans-1,2-Dichloroethene	20.19	1.0	20	0	101	80-140	0			
trans-1,3-Dichloropropene	16.44	1.0	20	0	82.2	56-132	0			
Trichloroethene	18.61	1.0	20	0	93	77-125	0			
Vinyl chloride	17.24	1.0	20	0	86.2	50-136	0			
Xylenes, Total	59.64	3.0	60	0	99.4	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.17*	0	*20*	0	*95.8*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.34*	0	*20*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethane	*19.14*	0	*20*	0	*95.7*	*85-115*	0			
Surr: Toluene-d8	*19.49*	0	*20*	0	*97.4*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081622
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269277** Instrument ID **VMS6** Method: **SW8260C**

MS Sample ID: **19081622-02A MS** Units: **µg/L** Analysis Date: **8/27/2019 11:26 PM**
Client ID: **ATR-OW2(33)-G082119** Run ID: **VMS6_190827A** SeqNo: **5878326** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	24.71	1.0	20	0	124	75-130	0			
1,1,2,2-Tetrachloroethane	20.86	1.0	20	0	104	75-130	0			
1,1,2-Trichloroethane	21.72	1.0	20	0	109	75-125	0			
1,1-Dichloroethane	25.23	1.0	20	0	126	68-142	0			
1,1-Dichloroethene	27.81	1.0	20	0	139	70-145	0			
1,2-Dichloroethane	21.19	1.0	20	0	106	78-125	0			
1,2-Dichloropropane	21.81	1.0	20	0	109	75-125	0			
2-Butanone	17.99	5.0	20	0	90	55-150	0			
2-Hexanone	17.62	5.0	20	0	88.1	60-135	0			
4-Methyl-2-pentanone	22.97	1.0	20	0	115	77-178	0			
Acetone	19.98	10	20	3.79	81	60-160	0			
Benzene	23.59	1.0	20	0	118	70-130	0			
Bromodichloromethane	21.36	1.0	20	0	107	75-125	0			
Bromoform	17.17	1.0	20	0	85.8	60-125	0			
Bromomethane	16.83	1.0	20	0	84.2	30-185	0			
Carbon disulfide	24.45	1.0	20	0	122	60-165	0			
Carbon tetrachloride	22.58	1.0	20	0	113	65-140	0			
Chlorobenzene	21.52	1.0	20	0	108	80-120	0			
Chloroethane	26.86	1.0	20	0	134	31-172	0			
Chloroform	22.22	1.0	20	0	111	66-135	0			
Chloromethane	28.59	1.0	20	0	143	46-148	0			
cis-1,2-Dichloroethene	24.01	1.0	20	0	120	75-134	0			
cis-1,3-Dichloropropene	21.25	1.0	20	0	106	70-130	0			
Dibromochloromethane	16.38	1.0	20	0	81.9	60-115	0			
Ethylbenzene	24.01	1.0	20	0	120	76-123	0			
m,p-Xylene	48.29	2.0	40	0	121	75-130	0			
Methylene chloride	23.14	5.0	20	0	116	72-125	0			
o-Xylene	24.09	1.0	20	0	120	76-127	0			
Styrene	23.55	1.0	20	0	118	83-137	0			
Tetrachloroethene	25.29	1.0	20	0	126	68-166	0			
Toluene	24.18	1.0	20	0	121	76-125	0			
trans-1,2-Dichloroethene	25.48	1.0	20	0	127	80-140	0			
trans-1,3-Dichloropropene	16.78	1.0	20	0	83.9	56-132	0			
Trichloroethene	24.78	1.0	20	0	124	77-125	0			
Vinyl chloride	27.58	1.0	20	0	138	50-136	0			S
Xylenes, Total	72.38	3.0	60	0	121	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.48*	0	*20*	0	*97.4*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.24*	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethane	*19.65*	0	*20*	0	*98.2*	*85-115*	0			
Surr: Toluene-d8	*20.55*	0	*20*	0	*103*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081622
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269277** Instrument ID **VMS6** Method: **SW8260C**

MSD Sample ID: **19081622-02A MSD** Units: **µg/L** Analysis Date: **8/27/2019 11:49 PM**
Client ID: **ATR-OW2(33)-G082119** Run ID: **VMS6_190827A** SeqNo: **5878327** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	24.92	1.0	20	0	125	75-130	24.71	0.846	30	
1,1,2,2-Tetrachloroethane	19.63	1.0	20	0	98.2	75-130	20.86	6.08	30	
1,1,2-Trichloroethane	21.32	1.0	20	0	107	75-125	21.72	1.86	30	
1,1-Dichloroethane	27.17	1.0	20	0	136	68-142	25.23	7.4	30	
1,1-Dichloroethene	24.06	1.0	20	0	120	70-145	27.81	14.5	30	
1,2-Dichloroethane	21.46	1.0	20	0	107	78-125	21.19	1.27	30	
1,2-Dichloropropane	22.25	1.0	20	0	111	75-125	21.81	2	30	
2-Butanone	18.31	5.0	20	0	91.6	55-150	17.99	1.76	30	
2-Hexanone	17.34	5.0	20	0	86.7	60-135	17.62	1.6	30	
4-Methyl-2-pentanone	23.54	1.0	20	0	118	77-178	22.97	2.45	30	
Acetone	20.43	10	20	3.79	83.2	60-160	19.98	2.23	30	
Benzene	22.71	1.0	20	0	114	70-130	23.59	3.8	30	
Bromodichloromethane	20.61	1.0	20	0	103	75-125	21.36	3.57	30	
Bromoform	16.83	1.0	20	0	84.2	60-125	17.17	2	30	
Bromomethane	20.44	1.0	20	0	102	30-185	16.83	19.4	30	
Carbon disulfide	26.29	1.0	20	0	131	60-165	24.45	7.25	30	
Carbon tetrachloride	23.32	1.0	20	0	117	65-140	22.58	3.22	30	
Chlorobenzene	21.88	1.0	20	0	109	80-120	21.52	1.66	30	
Chloroethane	28.63	1.0	20	0	143	31-172	26.86	6.38	30	
Chloroform	21.99	1.0	20	0	110	66-135	22.22	1.04	30	
Chloromethane	28.98	1.0	20	0	145	46-148	28.59	1.35	30	
cis-1,2-Dichloroethene	24.29	1.0	20	0	121	75-134	24.01	1.16	30	
cis-1,3-Dichloropropene	21.77	1.0	20	0	109	70-130	21.25	2.42	30	
Dibromochloromethane	17.19	1.0	20	0	86	60-115	16.38	4.83	30	
Ethylbenzene	23.4	1.0	20	0	117	76-123	24.01	2.57	30	
m,p-Xylene	47.4	2.0	40	0	118	75-130	48.29	1.86	30	
Methylene chloride	25.1	5.0	20	0	126	72-125	23.14	8.13	30	S
o-Xylene	23.72	1.0	20	0	119	76-127	24.09	1.55	30	
Styrene	22.29	1.0	20	0	111	83-137	23.55	5.5	30	
Tetrachloroethene	23.21	1.0	20	0	116	68-166	25.29	8.58	30	
Toluene	23.36	1.0	20	0	117	76-125	24.18	3.45	30	
trans-1,2-Dichloroethene	26.34	1.0	20	0	132	80-140	25.48	3.32	30	
trans-1,3-Dichloropropene	15.79	1.0	20	0	79	56-132	16.78	6.08	30	
Trichloroethene	23.32	1.0	20	0	117	77-125	24.78	6.07	30	
Vinyl chloride	28.07	1.0	20	0	140	50-136	27.58	1.76	30	S
Xylenes, Total	71.12	3.0	60	0	119	76-127	72.38	1.76	30	
Surr: 1,2-Dichloroethane-d4	*19.81*	0	*20*	0	*99*	*75-120*	19.48	*1.68*	*30*	
Surr: 4-Bromofluorobenzene	*19.8*	0	*20*	0	*99*	*80-110*	20.24	*2.2*	*30*	
Surr: Dibromofluoromethane	*20.15*	0	*20*	0	*101*	*85-115*	19.65	*2.51*	*30*	
Surr: Toluene-d8	*19.12*	0	*20*	0	*95.6*	*85-110*	20.55	*7.21*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081622
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269277** Instrument ID **VMS6** Method: **SW8260C**

The following samples were analyzed in this batch:

19081622-01A	19081622-02A	19081622-03A
19081622-04A	19081622-05A	19081622-06A
19081622-07A	19081622-08A	19081622-09A
19081622-10A	19081622-11A	19081622-12A
19081622-13A	19081622-14A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 2

COC ID: 187808

ALS Project Manager: EB

ALS Work Order #: 19081622

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	C0126091O2	Project Name	Stability	A	VOCs 8260B
Work Order		Project Number	33591O1040	B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To	Paul Stork	Invoice Attn	Accounts Payable	D	
Address	521 Byers Road, Suite 204	Address	521 Byers Road, Suite 204	E	
				F	
City/State/Zip	Miamisburg, OH 45342	City/State/Zip	Miamisburg, OH 45342	G	
Phone	(937) 859-3600	Phone	(937) 859-3600	H	
Fax	(937) 859-7951	Fax	(937) 859-7951	I	
e-Mail Address	Paul.Stork@woodplc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	ATR-OW2(39)-G082119	8/21/19	1400	GW	1	3	X										
2	ATR-OW2(33)-G082119	8/21/19	1310	GW	1	9	X										
3	ATR-OW2(53)-G082119	8/21/19	1225	GW	1	9	X										
4	ATR-OW3(35)-G082119	8/21/19	1225	GW	1	9	X										
5	ATR-OW3(55)-G082119	8/21/19	1150	GW	1	3	X										
6	ATR-OW4(35)-G082119	8/21/19	1140	GW	1	3	X										
7	ATR-OW4(54)-G082119	8/21/19	1105	GW	1	3	X										
8	ATR-OW5(16)-G082119	8/21/19	1100	GW	1	3	X										
9	ATR-OW5(35)-G082119	8/21/19	1020	GW	1	3	X										
10	ATR-OW6(44)-G082119	8/21/19	0905	GW	1	3	X										

Sampler(s) Please Print & Sign:

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date: 8/21/19	Time: 1545	Received by:	
Relinquished by:	Date: 8/21/19	Time: 1615	Received by (Laboratory):	8/22/19 0930
Logged by (Laboratory): DFS	Date: 8/22/19	Time: 1500	Checked by (Laboratory): EB	

Notes: ATR-OW2(33) includes samples for MS/MSD

Cooler ID	Cooler Temp.
SR2	4.8°c

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☑ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 2

COC ID: 187807

ALS Project Manager: EB

ALS Work Order #: 19081622

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	C0126091O2	Project Name	Stability	A	VOCs 8260B
Work Order		Project Number	335915 1040	B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To	Paul Stork	Invoice Attn	Accounts Payable	D	
Address	521 Byers Road, Suite 204	Address	521 Byers Road, Suite 204	E	
				F	
City/State/Zip	Miamisburg, OH 45342	City/State/Zip	Miamisburg, OH 45342	G	
Phone	(937) 859-3600	Phone	(937) 859-3600	H	
Fax	(937) 859-7951	Fax	(937) 859-7951	I	
e-Mail Address	Paul.Stork@woodplc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
~~1~~	~~ATR-OW6(37)-G082119~~	~~8/21/19~~	~~1010~~	~~GW~~	~~1~~	~~3~~	~~X~~										
11	ATR-OW6(37)-G082119	8/21/19	1010	GW	1	3	X										
12	ATR-OW6(63)-G082119	8/21/19	0925	GW	1	3	X										
13	ATR-OW6(63)-G082119R	8/21/19	0925	GW	1	3	X										
14	ATR-TB002-082119	8/21/19		W	2	1	X										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 8/21/19	Time: 1545	Received by:	
Relinquished by:	Date: 8/21/19	Time: 1615	Received by (Laboratory):	Date: 8/22/19 Time: 0930
Logged by (Laboratory): DFS	Date: 8/22/19	Time: 1500	Checked by (Laboratory): EB	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Notes:

Cooler ID	Cooler Temp.
SR2	4.8°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☑ Level IV SW846/CLP
☐ Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **WOOD-DAYTON** Date/Time Received: **22-Aug-19 09:30**

Work Order: **19081622** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 22-Aug-19 (Date) Reviewed by: Ehrland Bosworth (eSignature) 22-Aug-19 (Date)

Matrices: Groundwater

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.8/4.8 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/22/2019 3:50:42 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

03-Sep-2019

Paul Stork
Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342

Re: **TFS Rochester (3359-15-1040)** Work Order: **19081718**

Dear Paul,

ALS Environmental received 6 samples on 23-Aug-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 29.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Ehrland Bosworth

Electronically approved by: Ehrland Bosworth

Ehrland Bosworth
Project Manager

ALS Group, USA

Date: 03-Sep-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
Work Order: **19081718**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19081718-01	ATR-MW68 (32)-G082219	Groundwater		8/22/2019 15:30	8/23/2019 13:30	☐
19081718-02	ATR-MW72 (32)-G082219	Groundwater		8/22/2019 14:35	8/23/2019 13:30	☐
19081718-03	ATR-MW59 (46)-G082219	Groundwater		8/22/2019 10:25	8/23/2019 13:30	☐
19081718-04	ATR-MW59 (29)-G082219	Groundwater		8/22/2019 10:10	8/23/2019 13:30	☐
19081718-05	ATR-MW59 (29)-G082219R	Groundwater		8/22/2019 10:10	8/23/2019 13:30	☐
19081718-06	ATR-MW81 (27)-G082219	Groundwater		8/21/2019 15:15	8/23/2019 13:30	☐

ALS Group, USA

Date: 03-Sep-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
WorkOrder: **19081718**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

Client: Wood Environment & Infrastructure Solutions, Inc
Project: TFS Rochester (3359-15-1040)
Work Order: 19081718

Case Narrative

Samples for the above noted Work Order were received on 08/23/19. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
Batch R269311a, Method VOC_8260_W, Sample 19081718-01A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Bromomethane, 4-Methyl-2-pentanone, and 1,1,2,2-Tetrachloroethane.

Batch R269311a, Method VOC_8260_W, Sample 19081718-02A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Bromomethane, 4-Methyl-2-pentanone, and 1,1,2,2-Tetrachloroethane.

Batch R269311a, Method VOC_8260_W, Sample 19081718-02A: Verification of sample preservation indicated a pH >2.

Batch R269311a, Method VOC_8260_W, Sample 19081718-03A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Bromomethane, 4-Methyl-2-pentanone, and 1,1,2,2-Tetrachloroethane.

Batch R269311a, Method VOC_8260_W, Sample 19081718-06A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Bromomethane, 4-Methyl-2-pentanone, and 1,1,2,2-Tetrachloroethane.

Case Narrative

Batch R269397a, Method VOC_8260_W, Sample 19081718-04A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Bromomethane, 2-Hexanone, and 4-Methyl-2-pentanone.

Batch R269397a, Method VOC_8260_W, Sample 19081718-05A: The VOC Continuing Calibration Verification did not meet acceptance criteria for the following analytes; results are to be considered estimated for Bromomethane, 2-Hexanone, and 4-Methyl-2-pentanone.

No other deviations or anomalies were noted.

ALS Group, USA

Date: *03-Sep-19*

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW68 (32)-G082219 **Lab ID:** 19081718-01
Collection Date: 8/22/2019 03:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **WH**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
2-Butanone	**9.0**		**5.0**	**µg/L**	1	8/28/2019 08:04 PM
2-Hexanone	ND		5.0	µg/L	1	8/28/2019 08:04 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Acetone	**12**		**10**	**µg/L**	1	8/28/2019 08:04 PM
Benzene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Bromoform	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Bromomethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Carbon disulfide	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Chlorobenzene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Chloroethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Chloroform	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Chloromethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
cis-1,2-Dichloroethene	**12**		**1.0**	**µg/L**	1	8/28/2019 08:04 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Ethylbenzene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
m,p-Xylene	ND		2.0	µg/L	1	8/28/2019 08:04 PM
Methylene chloride	ND		5.0	µg/L	1	8/28/2019 08:04 PM
o-Xylene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Styrene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Toluene	**1.4**		**1.0**	**µg/L**	1	8/28/2019 08:04 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Trichloroethene	ND		1.0	µg/L	1	8/28/2019 08:04 PM
Vinyl chloride	**44**		**1.0**	**µg/L**	1	8/28/2019 08:04 PM
Xylenes, Total	ND		3.0	µg/L	1	8/28/2019 08:04 PM
Surr: 1,2-Dichloroethane-d4	*92.0*		*75-120*	*%REC*	1	8/28/2019 08:04 PM
Surr: 4-Bromofluorobenzene	*98.9*		*80-110*	*%REC*	1	8/28/2019 08:04 PM
Surr: Dibromofluoromethane	*98.0*		*85-115*	*%REC*	1	8/28/2019 08:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW68 (32)-G082219 **Lab ID:** 19081718-01
Collection Date: 8/22/2019 03:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*89.2*		*85-110*	*%REC*	1	8/28/2019 08:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW72 (32)-G082219 **Lab ID:** 19081718-02
Collection Date: 8/22/2019 02:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **WH**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
2-Butanone	**44**		**5.0**	**µg/L**	1	8/28/2019 05:51 AM
2-Hexanone	ND		5.0	µg/L	1	8/28/2019 05:51 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Acetone	**66**		**50**	**µg/L**	5	8/30/2019 04:43 PM
Benzene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Bromoform	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Bromomethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Carbon disulfide	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Chlorobenzene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Chloroethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Chloroform	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Chloromethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
cis-1,2-Dichloroethene	**1.3**		**1.0**	**µg/L**	1	8/28/2019 05:51 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Ethylbenzene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
m,p-Xylene	ND		2.0	µg/L	1	8/28/2019 05:51 AM
Methylene chloride	ND		5.0	µg/L	1	8/28/2019 05:51 AM
o-Xylene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Styrene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Toluene	**2.4**		**1.0**	**µg/L**	1	8/28/2019 05:51 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Trichloroethene	ND		1.0	µg/L	1	8/28/2019 05:51 AM
Vinyl chloride	**1.9**		**1.0**	**µg/L**	1	8/28/2019 05:51 AM
Xylenes, Total	ND		3.0	µg/L	1	8/28/2019 05:51 AM
Surr: 1,2-Dichloroethane-d4	*89.2*		*75-120*	*%REC*	5	8/30/2019 04:43 PM
Surr: 1,2-Dichloroethane-d4	*92.6*		*75-120*	*%REC*	1	8/28/2019 05:51 AM
Surr: 4-Bromofluorobenzene	*102*		*80-110*	*%REC*	5	8/30/2019 04:43 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW72 (32)-G082219 **Lab ID:** 19081718-02
Collection Date: 8/22/2019 02:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*98.3*		*80-110*	*%REC*	1	8/28/2019 05:51 AM
Surr: Dibromofluoromethane	*92.0*		*85-115*	*%REC*	5	8/30/2019 04:43 PM
Surr: Dibromofluoromethane	*96.9*		*85-115*	*%REC*	1	8/28/2019 05:51 AM
Surr: Toluene-d8	*94.1*		*85-110*	*%REC*	1	8/28/2019 05:51 AM
Surr: Toluene-d8	*88.4*		*85-110*	*%REC*	5	8/30/2019 04:43 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW59 (46)-G082219 **Lab ID:** 19081718-03
Collection Date: 8/22/2019 10:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **WH**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
1,1-Dichloroethene	**41**		**1.0**	**µg/L**	1	8/28/2019 06:08 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
2-Butanone	ND		5.0	µg/L	1	8/28/2019 06:08 AM
2-Hexanone	ND		5.0	µg/L	1	8/28/2019 06:08 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Acetone	ND		10	µg/L	1	8/28/2019 06:08 AM
Benzene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Bromoform	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Bromomethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Carbon disulfide	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Chlorobenzene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Chloroethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Chloroform	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Chloromethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
cis-1,2-Dichloroethene	**1,200**		**50**	**µg/L**	50	8/28/2019 08:55 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Ethylbenzene	**4.6**		**1.0**	**µg/L**	1	8/28/2019 06:08 AM
m,p-Xylene	**3.7**		**2.0**	**µg/L**	1	8/28/2019 06:08 AM
Methylene chloride	ND		5.0	µg/L	1	8/28/2019 06:08 AM
o-Xylene	**3.8**		**1.0**	**µg/L**	1	8/28/2019 06:08 AM
Styrene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Toluene	**3.9**		**1.0**	**µg/L**	1	8/28/2019 06:08 AM
trans-1,2-Dichloroethene	**16**		**1.0**	**µg/L**	1	8/28/2019 06:08 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Trichloroethene	ND		1.0	µg/L	1	8/28/2019 06:08 AM
Vinyl chloride	**1,600**		**50**	**µg/L**	50	8/28/2019 08:55 PM
Xylenes, Total	**7.5**		**3.0**	**µg/L**	1	8/28/2019 06:08 AM
Surr: 1,2-Dichloroethane-d4	*92.0*		*75-120*	*%REC*	50	8/28/2019 08:55 PM
Surr: 1,2-Dichloroethane-d4	*91.4*		*75-120*	*%REC*	1	8/28/2019 06:08 AM
Surr: 4-Bromofluorobenzene	*98.4*		*80-110*	*%REC*	1	8/28/2019 06:08 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW59 (46)-G082219 **Lab ID:** 19081718-03
Collection Date: 8/22/2019 10:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*99.3*		*80-110*	*%REC*	50	8/28/2019 08:55 PM
Surr: Dibromofluoromethane	*98.8*		*85-115*	*%REC*	1	8/28/2019 06:08 AM
Surr: Dibromofluoromethane	*98.3*		*85-115*	*%REC*	50	8/28/2019 08:55 PM
Surr: Toluene-d8	*91.1*		*85-110*	*%REC*	50	8/28/2019 08:55 PM
Surr: Toluene-d8	*91.6*		*85-110*	*%REC*	1	8/28/2019 06:08 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW59 (29)-G082219 **Lab ID:** 19081718-04
Collection Date: 8/22/2019 10:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **WH**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
2-Butanone	ND		5.0	µg/L	1	8/28/2019 07:30 PM
2-Hexanone	ND		5.0	µg/L	1	8/28/2019 07:30 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Acetone	ND		10	µg/L	1	8/28/2019 07:30 PM
Benzene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Bromoform	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Bromomethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Carbon disulfide	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Chlorobenzene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Chloroethane	**2.9**		**1.0**	**µg/L**	1	8/28/2019 07:30 PM
Chloroform	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Chloromethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
cis-1,2-Dichloroethene	**1.0**		**1.0**	**µg/L**	1	8/28/2019 07:30 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Ethylbenzene	**2.7**		**1.0**	**µg/L**	1	8/28/2019 07:30 PM
m,p-Xylene	**4.5**		**2.0**	**µg/L**	1	8/28/2019 07:30 PM
Methylene chloride	ND		5.0	µg/L	1	8/28/2019 07:30 PM
o-Xylene	**2.6**		**1.0**	**µg/L**	1	8/28/2019 07:30 PM
Styrene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Toluene	**3.1**		**1.0**	**µg/L**	1	8/28/2019 07:30 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Trichloroethene	ND		1.0	µg/L	1	8/28/2019 07:30 PM
Vinyl chloride	**1.2**		**1.0**	**µg/L**	1	8/28/2019 07:30 PM
Xylenes, Total	**7.0**		**3.0**	**µg/L**	1	8/28/2019 07:30 PM
Surr: 1,2-Dichloroethane-d4	*94.4*		*75-120*	*%REC*	1	8/28/2019 07:30 PM
Surr: 4-Bromofluorobenzene	*97.6*		*80-110*	*%REC*	1	8/28/2019 07:30 PM
Surr: Dibromofluoromethane	*98.8*		*85-115*	*%REC*	1	8/28/2019 07:30 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW59 (29)-G082219 **Lab ID:** 19081718-04
Collection Date: 8/22/2019 10:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*91.8*		*85-110*	*%REC*	1	8/28/2019 07:30 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW59 (29)-G082219R **Lab ID:** 19081718-05
Collection Date: 8/22/2019 10:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **WH**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
2-Butanone	ND		5.0	µg/L	1	8/28/2019 07:47 PM
2-Hexanone	ND		5.0	µg/L	1	8/28/2019 07:47 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Acetone	ND		10	µg/L	1	8/28/2019 07:47 PM
Benzene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Bromodichloromethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Bromoform	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Bromomethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Carbon disulfide	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Carbon tetrachloride	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Chlorobenzene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Chloroethane	**2.2**		**1.0**	**µg/L**	1	8/28/2019 07:47 PM
Chloroform	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Chloromethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
cis-1,2-Dichloroethene	**1.1**		**1.0**	**µg/L**	1	8/28/2019 07:47 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Dibromochloromethane	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Ethylbenzene	**2.7**		**1.0**	**µg/L**	1	8/28/2019 07:47 PM
m,p-Xylene	**4.4**		**2.0**	**µg/L**	1	8/28/2019 07:47 PM
Methylene chloride	ND		5.0	µg/L	1	8/28/2019 07:47 PM
o-Xylene	**2.5**		**1.0**	**µg/L**	1	8/28/2019 07:47 PM
Styrene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Tetrachloroethene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Toluene	**3.1**		**1.0**	**µg/L**	1	8/28/2019 07:47 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Trichloroethene	ND		1.0	µg/L	1	8/28/2019 07:47 PM
Vinyl chloride	**1.3**		**1.0**	**µg/L**	1	8/28/2019 07:47 PM
Xylenes, Total	**6.9**		**3.0**	**µg/L**	1	8/28/2019 07:47 PM
Surr: 1,2-Dichloroethane-d4	*94.0*		*75-120*	*%REC*	1	8/28/2019 07:47 PM
Surr: 4-Bromofluorobenzene	*100*		*80-110*	*%REC*	1	8/28/2019 07:47 PM
Surr: Dibromofluoromethane	*99.0*		*85-115*	*%REC*	1	8/28/2019 07:47 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW59 (29)-G082219R **Lab ID:** 19081718-05
Collection Date: 8/22/2019 10:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*90.7*		*85-110*	*%REC*	1	8/28/2019 07:47 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW81 (27)-G082219 **Lab ID:** 19081718-06
Collection Date: 8/21/2019 03:15 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **WH**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
2-Butanone	ND		5.0	µg/L	1	8/28/2019 06:59 AM
2-Hexanone	ND		5.0	µg/L	1	8/28/2019 06:59 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Acetone	ND		10	µg/L	1	8/28/2019 06:59 AM
Benzene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Bromodichloromethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Bromoform	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Bromomethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Carbon disulfide	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Carbon tetrachloride	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Chlorobenzene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Chloroethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Chloroform	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Chloromethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Dibromochloromethane	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Ethylbenzene	**1.4**		**1.0**	**µg/L**	1	8/28/2019 06:59 AM
m,p-Xylene	**2.4**		**2.0**	**µg/L**	1	8/28/2019 06:59 AM
Methylene chloride	ND		5.0	µg/L	1	8/28/2019 06:59 AM
o-Xylene	**1.2**		**1.0**	**µg/L**	1	8/28/2019 06:59 AM
Styrene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Tetrachloroethene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Toluene	**7.8**		**1.0**	**µg/L**	1	8/28/2019 06:59 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Trichloroethene	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Vinyl chloride	ND		1.0	µg/L	1	8/28/2019 06:59 AM
Xylenes, Total	**3.7**		**3.0**	**µg/L**	1	8/28/2019 06:59 AM
Surr: 1,2-Dichloroethane-d4	*95.2*		*75-120*	*%REC*	1	8/28/2019 06:59 AM
Surr: 4-Bromofluorobenzene	*96.2*		*80-110*	*%REC*	1	8/28/2019 06:59 AM
Surr: Dibromofluoromethane	*98.0*		*85-115*	*%REC*	1	8/28/2019 06:59 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040) **Work Order:** 19081718
Sample ID: ATR-MW81 (27)-G082219 **Lab ID:** 19081718-06
Collection Date: 8/21/2019 03:15 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*92.6*		*85-110*	*%REC*	1	8/28/2019 06:59 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **R269311a** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-190827-R269311a** Units: **µg/L** Analysis Date: **8/28/2019 01:00 AM**

Client ID: Run ID: **VMS10_190827B** SeqNo: **5879349** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*18.27*	0	*20*	0	*91.4*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*18.92*	0	*20*	0	*94.6*	*80-110*	0			
Surr: Dibromofluoromethane	*18.68*	0	*20*	0	*93.4*	*85-115*	0			
Surr: Toluene-d8	*18.43*	0	*20*	0	*92.2*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269311a** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSW3-190827-R269311a** Units: **µg/L** Analysis Date: **8/28/2019 09:26 AM**
Client ID: Run ID: **VMS10_190827B** SeqNo: **5879399** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.11	1.0	20	0	111	75-130	0			
1,1,2,2-Tetrachloroethane	16.53	1.0	20	0	82.6	75-130	0			
1,1,2-Trichloroethane	18.77	1.0	20	0	93.8	75-125	0			
1,1-Dichloroethane	19.7	1.0	20	0	98.5	68-142	0			
1,1-Dichloroethene	20.65	1.0	20	0	103	70-145	0			
1,2-Dichloroethane	18.6	1.0	20	0	93	78-125	0			
1,2-Dichloropropane	17.99	1.0	20	0	90	75-125	0			
2-Butanone	17.13	5.0	20	0	85.6	55-150	0			
2-Hexanone	15.1	5.0	20	0	75.5	60-135	0			
4-Methyl-2-pentanone	21.45	1.0	20	0	107	77-178	0			
Acetone	19.93	10	20	0	99.6	60-160	0			
Benzene	19.59	1.0	20	0	98	70-130	0			
Bromodichloromethane	20.89	1.0	20	0	104	75-125	0			
Bromoform	18.5	1.0	20	0	92.5	60-125	0			
Bromomethane	23.36	1.0	20	0	117	30-185	0			
Carbon disulfide	23.5	1.0	20	0	118	60-165	0			
Carbon tetrachloride	20.57	1.0	20	0	103	65-140	0			
Chlorobenzene	17.65	1.0	20	0	88.2	80-120	0			
Chloroethane	20.66	1.0	20	0	103	31-172	0			
Chloroform	18.53	1.0	20	0	92.6	66-135	0			
Chloromethane	16.2	1.0	20	0	81	46-148	0			
cis-1,2-Dichloroethene	18.82	1.0	20	0	94.1	75-134	0			
cis-1,3-Dichloropropene	19.36	1.0	20	0	96.8	70-130	0			
Dibromochloromethane	17.82	1.0	20	0	89.1	60-115	0			
Ethylbenzene	17.89	1.0	20	0	89.4	76-123	0			
m,p-Xylene	35.75	2.0	40	0	89.4	75-130	0			
Methylene chloride	16.98	5.0	20	0	84.9	72-125	0			
o-Xylene	18.08	1.0	20	0	90.4	76-127	0			
Styrene	19.14	1.0	20	0	95.7	83-137	0			
Tetrachloroethene	20.6	1.0	20	0	103	68-166	0			
Toluene	17.42	1.0	20	0	87.1	76-125	0			
trans-1,2-Dichloroethene	20.33	1.0	20	0	102	80-140	0			
trans-1,3-Dichloropropene	18.07	1.0	20	0	90.4	56-132	0			
Trichloroethene	21.03	1.0	20	0	105	77-125	0			
Vinyl chloride	21.1	1.0	20	0	106	50-136	0			
Xylenes, Total	53.83	3.0	60	0	89.7	76-127	0			
Surr: 1,2-Dichloroethane-d4	*18.69*	0	*20*	0	*93.4*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.24*	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethane	*20.84*	0	*20*	0	*104*	*85-115*	0			
Surr: Toluene-d8	*18.57*	0	*20*	0	*92.8*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269311a** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **19081711-01A MS** Units: **µg/L** Analysis Date: **8/28/2019 07:16 AM**
Client ID: Run ID: **VMS10_190827B** SeqNo: **5879397** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2041	100	2000	0	102	75-130	0			
1,1,2,2-Tetrachloroethane	1610	100	2000	0	80.5	75-130	0			
1,1,2-Trichloroethane	1778	100	2000	0	88.9	75-125	0			
1,1-Dichloroethane	1820	100	2000	0	91	68-142	0			
1,1-Dichloroethene	2042	100	2000	0	102	70-145	0			
1,2-Dichloroethane	1721	100	2000	0	86	78-125	0			
1,2-Dichloropropane	1740	100	2000	0	87	75-125	0			
2-Butanone	1830	500	2000	0	91.5	55-150	0			
2-Hexanone	1617	500	2000	0	80.8	60-135	0			
4-Methyl-2-pentanone	2188	100	2000	0	109	77-178	0			
Acetone	2089	1,000	2000	0	104	60-160	0			
Benzene	1820	100	2000	0	91	70-130	0			
Bromodichloromethane	1858	100	2000	0	92.9	75-125	0			
Bromoform	1592	100	2000	0	79.6	60-125	0			
Bromomethane	2518	100	2000	0	126	30-185	0			
Carbon disulfide	2060	100	2000	0	103	60-165	0			
Carbon tetrachloride	1879	100	2000	0	94	65-140	0			
Chlorobenzene	1569	100	2000	0	78.4	80-120	0			S
Chloroethane	1903	100	2000	0	95.2	31-172	0			
Chloroform	1694	100	2000	0	84.7	66-135	0			
Chloromethane	1441	100	2000	0	72	46-148	0			
cis-1,2-Dichloroethene	1605	100	2000	0	80.2	75-134	0			
cis-1,3-Dichloropropene	1633	100	2000	0	81.6	70-130	0			
Dibromochloromethane	1470	100	2000	0	73.5	60-115	0			
Ethylbenzene	1603	100	2000	0	80.2	76-123	0			
m,p-Xylene	3144	200	4000	0	78.6	75-130	0			
Methylene chloride	1508	500	2000	0	75.4	72-125	0			
o-Xylene	1640	100	2000	0	82	76-127	0			
Styrene	1671	100	2000	0	83.6	83-137	0			
Tetrachloroethene	1824	100	2000	0	91.2	68-166	0			
Toluene	1560	100	2000	0	78	76-125	0			
trans-1,2-Dichloroethene	1832	100	2000	0	91.6	80-140	0			
trans-1,3-Dichloropropene	1539	100	2000	0	77	56-132	0			
Trichloroethene	1927	100	2000	0	96.4	77-125	0			
Vinyl chloride	2069	100	2000	0	103	50-136	0			
Xylenes, Total	4784	300	6000	0	79.7	76-127	0			
Surr: 1,2-Dichloroethane-d4	*1884*	0	*2000*	0	*94.2*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*1988*	0	*2000*	0	*99.4*	*80-110*	0			
Surr: Dibromofluoromethane	*2067*	0	*2000*	0	*103*	*85-115*	0			
Surr: Toluene-d8	*1828*	0	*2000*	0	*91.4*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269311a** Instrument ID **VMS10** Method: **SW8260C**

MSD Sample ID: **19081711-01A MSD** Units: **µg/L** Analysis Date: **8/28/2019 07:34 AM**
Client ID: Run ID: **VMS10_190827B** SeqNo: **5879398** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2449	100	2000	0	122	75-130	2041	18.2	30	
1,1,2,2-Tetrachloroethane	1714	100	2000	0	85.7	75-130	1610	6.26	30	
1,1,2-Trichloroethane	1938	100	2000	0	96.9	75-125	1778	8.61	30	
1,1-Dichloroethane	2145	100	2000	0	107	68-142	1820	16.4	30	
1,1-Dichloroethene	2413	100	2000	0	121	70-145	2042	16.7	30	
1,2-Dichloroethane	1918	100	2000	0	95.9	78-125	1721	10.8	30	
1,2-Dichloropropane	1936	100	2000	0	96.8	75-125	1740	10.7	30	
2-Butanone	1829	500	2000	0	91.4	55-150	1830	0.0547	30	
2-Hexanone	1687	500	2000	0	84.4	60-135	1617	4.24	30	
4-Methyl-2-pentanone	2263	100	2000	0	113	77-178	2188	3.37	30	
Acetone	2331	1,000	2000	0	117	60-160	2089	11	30	
Benzene	2108	100	2000	0	105	70-130	1820	14.7	30	
Bromodichloromethane	2082	100	2000	0	104	75-125	1858	11.4	30	
Bromoform	1736	100	2000	0	86.8	60-125	1592	8.65	30	
Bromomethane	2719	100	2000	0	136	30-185	2518	7.68	30	
Carbon disulfide	2555	100	2000	0	128	60-165	2060	21.5	30	
Carbon tetrachloride	2269	100	2000	0	113	65-140	1879	18.8	30	
Chlorobenzene	1829	100	2000	0	91.4	80-120	1569	15.3	30	
Chloroethane	2406	100	2000	0	120	31-172	1903	23.3	30	
Chloroform	1965	100	2000	0	98.2	66-135	1694	14.8	30	
Chloromethane	1771	100	2000	0	88.6	46-148	1441	20.5	30	
cis-1,2-Dichloroethene	1849	100	2000	0	92.4	75-134	1605	14.1	30	
cis-1,3-Dichloropropene	1850	100	2000	0	92.5	70-130	1633	12.5	30	
Dibromochloromethane	1694	100	2000	0	84.7	60-115	1470	14.2	30	
Ethylbenzene	1853	100	2000	0	92.6	76-123	1603	14.5	30	
m,p-Xylene	3657	200	4000	0	91.4	75-130	3144	15.1	30	
Methylene chloride	1695	500	2000	0	84.8	72-125	1508	11.7	30	
o-Xylene	1892	100	2000	0	94.6	76-127	1640	14.3	30	
Styrene	1920	100	2000	0	96	83-137	1671	13.9	30	
Tetrachloroethene	2162	100	2000	0	108	68-166	1824	17	30	
Toluene	1837	100	2000	0	91.8	76-125	1560	16.3	30	
trans-1,2-Dichloroethene	2199	100	2000	0	110	80-140	1832	18.2	30	
trans-1,3-Dichloropropene	1677	100	2000	0	83.8	56-132	1539	8.58	30	
Trichloroethene	2176	100	2000	0	109	77-125	1927	12.1	30	
Vinyl chloride	2542	100	2000	0	127	50-136	2069	20.5	30	
Xylenes, Total	5549	300	6000	0	92.5	76-127	4784	14.8	30	
Surr: 1,2-Dichloroethane-d4	*1880*	0	*2000*	0	*94*	*75-120*	1884	*0.213*	*30*	
Surr: 4-Bromofluorobenzene	*1938*	0	*2000*	0	*96.9*	*80-110*	1988	*2.55*	*30*	
Surr: Dibromofluoromethane	*2055*	0	*2000*	0	*103*	*85-115*	2067	*0.582*	*30*	
Surr: Toluene-d8	*1847*	0	*2000*	0	*92.4*	*85-110*	1828	*1.03*	*30*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269311a** Instrument ID **VMS10** Method: **SW8260C**

The following samples were analyzed in this batch:

19081718-01A	19081718-02A	19081718-03A
19081718-04A	19081718-05A	19081718-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269397a** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190827-R269397a** Units: **µg/L** Analysis Date: **8/28/2019 06:19 PM**
Client ID: Run ID: **VMS10_190828A** SeqNo: **5881694** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	*18.8*	0	*20*	0	*94*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.29*	0	*20*	0	*96.4*	*80-110*	0			
Surr: Dibromofluoromethane	*19.72*	0	*20*	0	*98.6*	*85-115*	0			
Surr: Toluene-d8	*18.02*	0	*20*	0	*90.1*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269397a** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190828-R269397a** Units: **µg/L** Analysis Date: **8/28/2019 05:27 PM**
Client ID: Run ID: **VMS10_190828A** SeqNo: **5881693** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.48	1.0	20	0	112	75-130	0			
1,1,2,2-Tetrachloroethane	16.67	1.0	20	0	83.4	75-130	0			
1,1,2-Trichloroethane	19.24	1.0	20	0	96.2	75-125	0			
1,1-Dichloroethane	20.61	1.0	20	0	103	68-142	0			
1,1-Dichloroethene	21.23	1.0	20	0	106	70-145	0			
1,2-Dichloroethane	19.87	1.0	20	0	99.4	78-125	0			
1,2-Dichloropropane	19.5	1.0	20	0	97.5	75-125	0			
2-Butanone	17.57	5.0	20	0	87.8	55-150	0			
2-Hexanone	15.61	5.0	20	0	78	60-135	0			
4-Methyl-2-pentanone	20.92	1.0	20	0	105	77-178	0			
Acetone	24.33	10	20	0	122	60-160	0			
Benzene	20.67	1.0	20	0	103	70-130	0			
Bromodichloromethane	22.75	1.0	20	0	114	75-125	0			
Bromoform	20.56	1.0	20	0	103	60-125	0			
Bromomethane	40.02	1.0	20	0	200	30-185	0			S
Carbon disulfide	25.1	1.0	20	0	126	60-165	0			
Carbon tetrachloride	21.11	1.0	20	0	106	65-140	0			
Chlorobenzene	18.18	1.0	20	0	90.9	80-120	0			
Chloroethane	23.26	1.0	20	0	116	31-172	0			
Chloroform	20.02	1.0	20	0	100	66-135	0			
Chloromethane	17.48	1.0	20	0	87.4	46-148	0			
cis-1,2-Dichloroethene	19.5	1.0	20	0	97.5	75-134	0			
cis-1,3-Dichloropropene	20.41	1.0	20	0	102	70-130	0			
Dibromochloromethane	19.1	1.0	20	0	95.5	60-115	0			
Ethylbenzene	17.52	1.0	20	0	87.6	76-123	0			
m,p-Xylene	35.65	2.0	40	0	89.1	75-130	0			
Methylene chloride	17.75	5.0	20	0	88.8	72-125	0			
o-Xylene	18.58	1.0	20	0	92.9	76-127	0			
Styrene	19.65	1.0	20	0	98.2	83-137	0			
Tetrachloroethene	20.11	1.0	20	0	101	68-166	0			
Toluene	17.47	1.0	20	0	87.4	76-125	0			
trans-1,2-Dichloroethene	21.25	1.0	20	0	106	80-140	0			
trans-1,3-Dichloropropene	19.04	1.0	20	0	95.2	56-132	0			
Trichloroethene	21.57	1.0	20	0	108	77-125	0			
Vinyl chloride	21.94	1.0	20	0	110	50-136	0			
Xylenes, Total	54.23	3.0	60	0	90.4	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.15*	0	*20*	0	*95.8*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.58*	0	*20*	0	*97.9*	*80-110*	0			
Surr: Dibromofluoromethane	*20.57*	0	*20*	0	*103*	*85-115*	0			
Surr: Toluene-d8	*18.31*	0	*20*	0	*91.6*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269397a** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **19081711-05A MS** Units: **µg/L** Analysis Date: **8/29/2019 01:10 AM**
Client ID: Run ID: **VMS10_190828A** SeqNo: **5881703** Prep Date: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	246.7	10	200	0	123	75-130	0			
1,1,2,2-Tetrachloroethane	157.7	10	200	0	78.8	75-130	0			
1,1,2-Trichloroethane	189	10	200	0	94.5	75-125	0			
1,1-Dichloroethane	217.3	10	200	0	109	68-142	0			
1,1-Dichloroethene	243.4	10	200	0	122	70-145	0			
1,2-Dichloroethane	196.6	10	200	0	98.3	78-125	0			
1,2-Dichloropropane	193.7	10	200	0	96.8	75-125	0			
2-Butanone	202.6	50	200	0	101	55-150	0			
2-Hexanone	166.3	50	200	0	83.2	60-135	0			
4-Methyl-2-pentanone	224.9	10	200	0	112	77-178	0			
Acetone	269.5	100	200	0	135	60-160	0			
Benzene	215.5	10	200	0	108	70-130	0			
Bromodichloromethane	207.4	10	200	0	104	75-125	0			
Bromoform	173.5	10	200	0	86.8	60-125	0			
Bromomethane	381.8	10	200	0	191	30-185	0			S
Carbon disulfide	252.4	10	200	0	126	60-165	0			
Carbon tetrachloride	224.5	10	200	0	112	65-140	0			
Chlorobenzene	180.9	10	200	0	90.4	80-120	0			
Chloroethane	233.7	10	200	0	117	31-172	0			
Chloroform	198.4	10	200	0	99.2	66-135	0			
Chloromethane	196.5	10	200	0	98.2	46-148	0			
cis-1,2-Dichloroethene	646.9	10	200	417.1	115	75-134	0			
cis-1,3-Dichloropropene	193.2	10	200	0	96.6	70-130	0			
Dibromochloromethane	166.4	10	200	0	83.2	60-115	0			
Ethylbenzene	185.3	10	200	0	92.6	76-123	0			
m,p-Xylene	372.8	20	400	0	93.2	75-130	0			
Methylene chloride	180.7	50	200	0	90.4	72-125	0			
o-Xylene	189.5	10	200	0	94.8	76-127	0			
Styrene	190.1	10	200	0	95	83-137	0			
Tetrachloroethene	213.9	10	200	0	107	68-166	0			
Toluene	180.6	10	200	0	90.3	76-125	0			
trans-1,2-Dichloroethene	222.6	10	200	0	111	80-140	0			
trans-1,3-Dichloropropene	172.2	10	200	0	86.1	56-132	0			
Trichloroethene	226.9	10	200	0	113	77-125	0			
Vinyl chloride	696.3	10	200	429.9	133	50-136	0			
Xylenes, Total	562.3	30	600	0	93.7	76-127	0			
Surr: 1,2-Dichloroethane-d4	*179.4*	0	*200*	0	*89.7*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*203.5*	0	*200*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethane	*203*	0	*200*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*181*	0	*200*	0	*90.5*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269397a** Instrument ID **VMS10** Method: **SW8260C**

The following samples were analyzed in this batch:

19081718-01A	19081718-02A	19081718-03A
19081718-04A	19081718-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 19081718
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R269576a** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190830-R269576a** Units: **µg/L** Analysis Date: **8/30/2019 01:53 PM**
Client ID: Run ID: **VMS10_190830A** SeqNo: **5886444** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	ND	10								
Surr: 1,2-Dichloroethane-d4	*18.72*	0	*20*	0	*93.6*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.62*	0	*20*	0	*98.1*	*80-110*	0			
Surr: Dibromofluoromethane	*18.75*	0	*20*	0	*93.8*	*85-115*	0			
Surr: Toluene-d8	*17.92*	0	*20*	0	*89.6*	*85-110*	0			

LCS Sample ID: **VLCSW1-190830-R269576a** Units: **µg/L** Analysis Date: **8/30/2019 01:02 PM**
Client ID: Run ID: **VMS10_190830A** SeqNo: **5886443** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	23.85	10	20	0	119	60-160	0			
Surr: 1,2-Dichloroethane-d4	*17.8*	0	*20*	0	*89*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.25*	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethane	*20.28*	0	*20*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*17.92*	0	*20*	0	*89.6*	*85-110*	0			

MS Sample ID: **19081718-02A MS** Units: **µg/L** Analysis Date: **8/30/2019 08:45 PM**
Client ID: **ATR-MW72 (32)-G082219** Run ID: **VMS10_190830A** SeqNo: **5887461** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	154.2	50	100	66	88.2	60-160	0			
Surr: 1,2-Dichloroethane-d4	*90.4*	0	*100*	0	*90.4*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*98.7*	0	*100*	0	*98.7*	*80-110*	0			
Surr: Dibromofluoromethane	*95.85*	0	*100*	0	*95.8*	*85-115*	0			
Surr: Toluene-d8	*87.5*	0	*100*	0	*87.5*	*85-110*	0			

MSD Sample ID: **19081718-02A MSD** Units: **µg/L** Analysis Date: **8/30/2019 09:02 PM**
Client ID: **ATR-MW72 (32)-G082219** Run ID: **VMS10_190830A** SeqNo: **5887462** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acetone	168.2	50	100	66	102	60-160	154.2	8.72	30	
Surr: 1,2-Dichloroethane-d4	*90.1*	0	*100*	0	*90.1*	*75-120*	90.4	*0.332*	*30*	
Surr: 4-Bromofluorobenzene	*102.9*	0	*100*	0	*103*	*80-110*	98.7	*4.17*	*30*	
Surr: Dibromofluoromethane	*99.95*	0	*100*	0	*100*	*85-115*	95.85	*4.19*	*30*	
Surr: Toluene-d8	*87.55*	0	*100*	0	*87.6*	*85-110*	87.5	*0.0571*	*30*	

The following samples were analyzed in this batch: 19081718-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 187196

ALS Project Manager: EB

ALS Work Order #: 19081718

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	CO12609102	Project Name	Stability and Annual	A	VOCs 8260B
Work Order		Project Number	335915 1040	B	
Company Name	Wood Environment & Infrastructure Soluti ons, Inc	Bill To Company	Wood Environment & Infrastructure Sol utions, Inc	C	
Send Report To	Paul Stork	Invoice Attn	Accounts Payable	D	
Address	521 Byers Road, Suite 204	Address	521 Byers Road, Suite 204	E	
				F	
City/State/Zip	Miamisburg, OH 45342	City/State/Zip	Miamisburg, OH 45342	G	
Phone	(937) 859-3600	Phone	(937) 859-3600	H	
Fax	(937) 859-7951	Fax	(937) 859-7951	I	
e-Mail Address	Paul.Stork@woodplc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	ATR-MW68(32)-G082219	8/22/19	1530	GW	1	3	X										
2	ATR-MW72(32)-G082219	8/22/19	1435	GW	1	3	X										
3	ATR-MW59(46)-G082219	8/22/19	0925	GW	1	3	X										
4	ATR-MW59(29)-G082219	8/22/19	1010	GW	1	3	X										
5	ATR-MW59(29)-G082219R	8/22/19	1010	GW	1	3	X										
6	ATR-MW81(27)-G082119	8/21/19	1515	GW	1	3	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign:

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: Rachel Hiked	Date: 8/23/19	Time: 0950	Received by:	Notes:	
Relinquished by:	Date:	Time:	Received by (Laboratory): 8/23/19 15:30	Cooler ID	Cooler Temp.
Logged by (Laboratory): MS6	Date: 8/23/19	Time: 15:35	Checked by (Laboratory): EB	3.4°C	
				SR2	
				PH<7	

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☑ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **WOOD-DAYTON** Date/Time Received: **23-Aug-19 13:30**

Work Order: **19081718** Received by: **MJG**

Checklist completed by Matthew Gaylord (eSignature) 23-Aug-19 (Date) Reviewed by: Ehrland Bosworth (eSignature) 23-Aug-19 (Date)

Matrices: groundwater
Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4/3.4C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	8/23/2019 3:47:53 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

August 29, 2019

Paul Stork
Wood Environment & Infastructure Soultions, Inc
521 Byers Road
Suite 204
Miamisburg, OH 45342

RE: **3329151040**

Pace Workorder: 31268

Dear Paul Stork:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, August 27, 2019. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 08/29/2019
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 15

CERTIFICATE OF ANALYSIS

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

SAMPLE SUMMARY

Workorder: 31268 3329151040

Lab ID	Sample ID	Matrix	Date Collected	Date Received
312680001	ATR-MW59(29)-G082219	Water	8/22/2019 10:10	8/27/2019 11:00
312680002	ATR-MW59(29)-G082219R	Water	8/22/2019 10:10	8/27/2019 11:00
312680003	ATR-MW68(32)-G082219	Water	8/22/2019 15:30	8/27/2019 11:00
312680004	ATR-MW72(32)-G082219	Water	8/22/2019 14:35	8/27/2019 11:00
312680005	ATR-MW81(27)-G082119	Water	8/21/2019 15:15	8/27/2019 11:00
312680006	ATR-MW6C-G082119	Water	8/21/2019 14:50	8/27/2019 11:00

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 31268 3329151040

Workorder Comments

The container pH for samples 31268 (0001-0004) were measured as below the expected pH (< 10) for those samples preserved with trisodium phosphate, as assigned to PAES method AM20GAx.

Batch Comments

Batch: DISG/7740 - AM20GAX Water QC

The matrix spike and/or spike duplicate, recovery or relative percent difference; accuracy influenced by the concentration of the reference sample 312690003. Analyte Methane. Batch acceptance based on laboratory control sample recovery.

Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 31268 3329151040

Lab ID: **312680001** Date Received: 8/27/2019 11:00 Matrix: Water

Sample ID: **ATR-MW59(29)-G082219** Date Collected: 8/22/2019 10:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**21000**	ug/l	0.50	0.094	1	8/28/2019 09:15	TD	M3,n,M5
Ethane	**270**	ug/l	0.10	0.011	1	8/28/2019 09:15	TD	n
Ethene	**0.14**	ug/l	0.10	0.0080	1	8/28/2019 09:15	TD	n

CERTIFICATE OF ANALYSIS

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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 31268 3329151040

Lab ID: **312680002** Date Received: 8/27/2019 11:00 Matrix: Water

Sample ID: **ATR-MW59(29)-G082219R** Date Collected: 8/22/2019 10:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**20000**	ug/l	0.50	0.094	1	8/28/2019 09:35	TD	M3,n,M5
Ethane	**250**	ug/l	0.10	0.011	1	8/28/2019 09:35	TD	n
Ethene	**0.14**	ug/l	0.10	0.0080	1	8/28/2019 09:35	TD	n

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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 31268 3329151040

Lab ID: **312680003** Date Received: 8/27/2019 11:00 Matrix: Water

Sample ID: **ATR-MW68(32)-G082219** Date Collected: 8/22/2019 15:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**11000**	ug/l	0.50	0.094	1	8/28/2019 09:54	TD	M3,n,M5
Ethane	**120**	ug/l	0.10	0.011	1	8/28/2019 09:54	TD	n
Ethene	**8.0**	ug/l	0.10	0.0080	1	8/28/2019 09:54	TD	n

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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 31268 3329151040

Lab ID: **312680004** Date Received: 8/27/2019 11:00 Matrix: Water

Sample ID: **ATR-MW72(32)-G082219** Date Collected: 8/22/2019 14:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**9600**	ug/l	0.50	0.094	1	8/28/2019 10:11	TD	M3,n,M5
Ethane	**14**	ug/l	0.10	0.011	1	8/28/2019 10:11	TD	n
Ethene	**0.33**	ug/l	0.10	0.0080	1	8/28/2019 10:11	TD	n

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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 31268 3329151040

Lab ID: **312680005** Date Received: 8/27/2019 11:00 Matrix: Water

Sample ID: **ATR-MW81(27)-G082119** Date Collected: 8/21/2019 15:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**21000**	ug/l	0.50	0.094	1	8/28/2019 10:28	TD	M3,n,M5
Ethane	**160**	ug/l	0.10	0.011	1	8/28/2019 10:28	TD	n
Ethene	**0.20**	ug/l	0.10	0.0080	1	8/28/2019 10:28	TD	n

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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 31268 3329151040

Lab ID: **312680006** Date Received: 8/27/2019 11:00 Matrix: Water

Sample ID: **ATR-MW6C-G082119** Date Collected: 8/21/2019 14:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**16000**	ug/l	0.50	0.094	1	8/28/2019 10:58	TD	M3,n,M5
Ethane	**22**	ug/l	0.10	0.011	1	8/28/2019 10:58	TD	n
Ethene	**0.42**	ug/l	0.10	0.0080	1	8/28/2019 10:58	TD	n

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Fax: (412) 826-3433

ANALYTICAL RESULTS QUALIFIERS

Workorder: 31268 3329151040

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.
M5	The matrix spike duplicate sample recovery was outside laboratory control limits.
M3	The matrix spike sample recovery was outside laboratory control limits.

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Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 31268 3329151040

QC Batch: DISG/7740 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 312680001, 312680002, 312680003, 312680004, 312680005, 312680006

METHOD BLANK: 62864

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	M3,n,M5
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 62866 62868

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
Methane	ug/l	750	790	720	106	96	80-120	9.9	20	M3,M5,n
Ethane	ug/l	38	36	34	94	91	80-120	3.4	20	n
Ethene	ug/l	35	33	32	94	91	80-120	3.5	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62892 62893 Original: 312690003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	260	40	370	370	282	282	70-130	0.01	20	M3,n,M5
Ethane	ug/l	0.62	76	82	84	108	111	70-130	2.3	20	n
Ethene	ug/l	0.06	71	76	79	108	111	70-130	3.3	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 31268 3329151040

QUALITY CONTROL PARAMETER QUALIFIERS

M3	The matrix spike sample recovery was outside laboratory control limits.
M5	The matrix spike duplicate sample recovery was outside laboratory control limits.
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 31268 3329151040

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
312680001	ATR-MW59(29)-G082219			AM20GAX	DISG/7740
312680002	ATR-MW59(29)-G082219R			AM20GAX	DISG/7740
312680003	ATR-MW68(32)-G082219			AM20GAX	DISG/7740
312680004	ATR-MW72(32)-G082219			AM20GAX	DISG/7740
312680005	ATR-MW81(27)-G082119			AM20GAX	DISG/7740
312680006	ATR-MW6C-G082119			AM20GAX	DISG/7740

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here: 31268 JW 8/22/19

ALL SHADED AREAS are for LAB USE ONLY

Company: WOOD E&IS	Billing Information: 521 Byers Rd. Miamisburg, OH 45342
Address: 521 Byers Rd. Miamisburg, OH 45342	
Report To: Paul Stork	Email To: Paul.Stork@woodplc.com
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 335915040	State: IN County/City: Rochester Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 937 859 3600 Email: Paul.Stork@woodplc.com	Site/Facility ID #:
Collected By (print): Rachel Hicks	Purchase Order #: Quote #: 0006386025
Collected By (signature):	Turnaround Date Required:
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [✓] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: AM20GAX	Lab Profile/Line: Lab Sample # / Comments:
ATR-MW59(22)-G082219	GW	G	8/22/19	1010				3	X	
ATR-MW59(29)-G082219R	GW	G	8/22/19	1010				3	X	
ATR-MW68(32)-G082219	GW	G	8/22/19	1530				3	X	
ATR-MW72(32)-G082219	GW	G	8/22/19	1435				3	X	
ATR-MW81(27)-G082119	GW	G	8/21/19	1515				3	X	
ATR-MW6C-G082119	GW	G	8/21/19	1450				3	X	

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used: bubble wrap

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 7760 7643 2128 8396

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: _____
Cooler 1 Temp Upon Receipt: 1.8 °C
Cooler 1 Therm Corr. Factor: _____ oC
Cooler 1 Corrected Temp: _____ oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Rachel Hicks / Wood	8/26/19 1614	[signature] PACE	8.27.19 1100
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

1.0 INTRODUCTION

Groundwater samples were collected during monitoring well sampling completed in August 2019 at the Former TORX Facility in Rochester, Indiana. Samples were analyzed by ALS Laboratory Group in Holland, Michigan. A summary of sample delivery groups (SDGs) and field samples included in this review is contained in Table 1. Samples reviewed in this report were analyzed for the following USEPA SW-846 (USEPA, 1996) method:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260C

Sample results were validated using general procedures in the USEPA National Data Validation Guidelines (USEPA, 1999), Indiana Department of Environmental Management (IDEM) data review guidelines (IDEM, 2012), and data validation goals identified in the Work Plan Appendix N Quality Assurance Project Plan (QAPP) [AMEC, 2014]. Project data quality criteria for the VOC analyses are identified based on IDEM quality control (QC) goals (IDEM, 1998) and the professional judgment of the project chemist. A summary of project QC limits used during data validation is provided in Table 2. Full validation was completed on ten percent of the samples. Full validation was completed on the following samples:

- ATR-MW37 (98)- G081319
- ATR-MW50 (45)-G081419
- ATR-MW29 (132)-G081419
- ATR-MW29 (82.5)-G081419
- ATR-MW29 (103.3)- G081419
- ATR-MW32 (110)- G081519
- ATR-MW32 (89)- G081519
- ATR-MW32 (24.1)- G081519
- ATR-MW30 (41.1)- G081519
- ATR-MW1 - G081519
- ATR-MW48 (159)- G081519
- ATR-MW48 (159)- G081519R
- ATR-MW34 (84)- G081519
- ATR-MW34 (37)- G081519

Full validation includes review of raw instrument data, lab notebook records, and calculation checks in addition to the following parameters:

- laboratory report narrative
- sample chain of custody/sample receipt records
- sample preservation and holding times
- instrument tuning and calibration
- QC blanks
- laboratory control sample (LCS) results
- matrix spike and matrix spike duplicate (MS/MSD) sample results

- surrogate recovery
- internal standard recovery and retention times
- field duplicate sample results
- sample results summary
- verification of electronic database results

Level II validation was completed on the remaining ninety percent of the data in accordance with specifications in the Work Plan. During the Level II validation the major quality assurance (QA)/QC indicators of analytical data quality are reviewed, but review of calculations and raw laboratory data is not included. QC data checks are completed using QC summary forms provided in the laboratory packages. The following parameters are checked during the Level II review:

- laboratory report narrative
- sample chain of custody/sample receipt records
- sample preservation and holding times
- QC blanks
- laboratory control sample (LCS) results
- matrix spike and matrix spike duplicate (MS/MSD) sample results
- surrogate recovery
- internal standard recovery and retention times
- field duplicate sample results
- sample results summary
- verification of electronic database results

A summary of qualification actions is presented in Table 3. Table 3 includes listings of validation reason codes to document the reason for the validation qualification. Final sample results are presented in Table 4. A summary of table notes applicable to Tables 1, 3, and 4 is presented just before Table 1. Target analytes were reported as detections if concentrations were greater than the reporting limit (RL). If target compounds were not detected, or concentrations were less than RLs, the compounds are reported as non-detect (U) at the reporting limits. Data validation qualifiers were added to results if associated quality control data did not meet goals in the validation guidelines or project work plan. The following data quality flags shown below were used to qualify data that did not meet project specific QC goals.

UJ – undetected and reporting limit is estimated
U – undetected
J - estimated value
J+ - estimated value and potentially biased high

2.0 VALIDATION OBSERVATION AND ACTIONS

With the exception of the data qualification actions discussed in the sections below, results are interpreted to be usable as reported by the laboratory. A summary of qualification actions is presented on Table 3. Validation reason codes are applied to the results to document the reason for the validation qualification.

2.1 VOCs

During the Level II review the data quality indicators listed below were reviewed. Checks that included validation actions are marked with an asterisk (*) and discussed in the following sections.

- laboratory report narrative
- sample chain of custody/sample receipt records
- sample preservation and holding times
- QC blanks*
- laboratory control sample (LCS) results*
- matrix spike and matrix spike duplicate (MS/MSD) sample results*
- surrogate recovery*
- internal standard recovery and retention times
- field duplicate sample results
- sample results summary
- verification of electronic database results

During the full validation the data quality indicators listed below were also reviewed:

- instrument tuning
- initial calibration
- continuing calibration*
- calculation checks specified in USEPA guidelines
- analyte identification and quantitation

QC Blanks

Due to contamination in the associated trip blank (11 ug/L) the result for acetone in sample ATR-OW6(63)-G082119 and ATR-OW6(63)-G082119R were qualified non-detect (U). The qualified results are included in Table 3 with reason code BL2.

Continuing Calibration

The percent difference for carbon disulfide, 2-hexanone, bromomethane, vinyl chloride, chloroethane, 1,1,2,2-tetrachloroethane, and 4-methyl-2-pentanone in various analytical batches exceeded the project goal of 20. These VOCs were not detected in associated samples, and reporting limits for these VOCs in associated samples were qualified estimated (UJ). Qualified results are summarized in Table 3 with reason code CCV%D.

LCS

In the LCS associated with batch R269467a the percent recovery of carbon disulfide was greater than the limit of 130. Of the associated samples, carbon disulfide was only detected in sample ATR-MW71(33)-G082219. The detection of carbon disulfide in sample ATR-MW71(33)-G082219 was qualified estimated (J). The MS/MSD for sample ATR-MW71(33)-G082219 also had a relative percent difference for carbon disulfide that exceeded the precision goal. The qualified result is included in Table 3 with reason codes LCSH and MSRPD.

MS/MSD

Multiple MS/MSD analyses were completed using groundwater samples from this event. The majority of VOCs has recoveries within the QC limit goal of 70-130 percent. A subset of results for the following compounds was qualified as estimated values (J+/UJ) due to MS/MSD percent recoveries outside the QAPP specified control limits.

2-hexanone
Bromoform
Dibromochloromethane
trans-1,3-Dichloropropene
Vinyl chloride

In the MS/MSD associated with sample ATR-MW39 (13)- G081319, percent recoveries for 2-hexanone (67), bromoform (64), dibromochloromethane (66), and trans-1,3-dichloropropene (68) were less than the 70-130 control limits, indicating a potential low bias. Reporting limits were qualified estimated (UJ) and are included in Table 3 with reason code MSL.

In the MS/MSD associated with sample ATR-MW60 (38)-G082219, percent recovery for vinyl chloride (133) in the MS was greater than the 70-130 control limits. The result for vinyl chloride was qualified estimated with a potential high bias (J+). The result in included in Table 3 with reason code MSH.

The MS/MSD for sample ATR-MW71(33)-G082219 had a relative percent difference for carbon disulfide that exceeded the precision goal. The result for carbon disulfide is qualified as estimated (J). The qualified result is included in Table 3 with reason code MSRPD.

Surrogates

Percent recoveries of the surrogate 1,2-dichloroethane-d4 (82-83) in samples ATR-MW39 (76.7)-G081319, ATR-MW39 (29.3)- G081319, and ATR-MW39 (13)- G081319 were less than the 85-115 control limits, indicating potential low bias. No VOCs were detected in samples ATR-MW39 (76.7)-G081319, ATR-MW39 (29.3)- G081319, and ATR-MW39 (13)- G081319 and reporting limits were qualified estimated (UJ). Qualified results are included in Table 3 with reason code SSL.

Reference:

IDEM, 1998. “Guidance to the Performance and Presentation of Analytical Chemistry Data”; Indiana Department of Environmental Monitoring; Technical Waste Assessment, Rev. 1: July 16, 1998.

IDEM, 2012. “Remediation Closure Guide”; Office of Land Quality; Indiana Department of Environmental Management; March 22, 2012, with corrections through July 9, 2012.

AMEC, 2014. “Investigation Work Plan Former TORX Facility 4366 North Old US Rt. 31 Rochester, Indiana”; Appendix N QAPP – Groundwater Data Collection, Sampling, and Analyses; June 2014.

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

U.S. Environmental Protection Agency (USEPA), 1999. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review"; Office of Emergency and Remedial Response; EPA-540/R-99/008; October 1999.

Data Validator: Liesel Krout

Date: October 25, 2019

Report Reviewed by: Chris Ricardi, NRCC_EAC

Date: November 1, 2019

Standard Table Notes:

Sample Type (QC Code)

FS – field sample

FD – field duplicate

TB – trip blank

EB – equipment blank

FB – field blank

Matrix

GW – ground water

BW – blank water

TW – tap water

SV – soil vapor

SED - sediment

Units

mg/L – milligrams per liter

ng/L – nanograms per liter

µg/L – micrograms per liter

mg/kg – milligrams per kilogram

µg/kg – micrograms per kilogram

µg/m^3 – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit

J – estimated quantity

J+ - estimated quantity, biased high

J- - estimated quantity, biased low

R – data unusable

Fraction

T – total

D – dissolved

N – normal

Qualification Reason Codes

BL1 – method blank qualifier

BL2 – field or trip blank qualifier

CCV – continuing calibration verification recovery outside limits

CCV%D – continuing calibration verification percent difference exceeds goal

CCVRRF – continuing calibration relative response factor low

CI – chromatographic interference present

DCPD – dual column percent difference exceeds limit

E – result exceeds calibration range

FD – field duplicate precision goal exceeded

FP – false positive interference

HT – holding time for prep or analysis exceeded

HTG – holding time for prep or analysis grossly exceeded

ICV – initial calibration verification recovery outside limit

ICVRRF – initial calibration verification relative response factor low

ICVRSD – initial calibration verification % relative standard deviation exceeds goal

ISH – internal standard response greater than limit

ISL – internal standard response less than limit

LCSH – laboratory control sample recovery high

LCSL – laboratory control sample recovery low

LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded

LD – lab duplicate precision goal exceeded

MSH – matrix spike and/or MS duplicate recovery high

MSL – matrix spike and/or MS duplicate recovery low

MSRPD – matrix spike/duplicate relative % difference precision goal exceeded

N – analyte identification is not certain

PEM – performance evaluation mixture exceeds limit

PM – sample percent moisture exceeds EPA guideline

SD – serial dilution result exceeds percent difference limit

SP – sample preservation/collection does not meet method requirement

SSH – surrogate recovery high

SSL – surrogate recovery low

TD – dissolved concentration exceeds total

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

						Method	SW8260C
SDG	**Location**	**Field Sample ID**	**Sample Date**	**Matrix**	**Lab Sample ID**	**Sample Type**	**Count**
19081137	MW-29(103.3)	ATR-MW29 (103.3)-G081419	8/14/2019	GW	19081137-31A	FS	36
19081137	MW-29(132.8)	ATR-MW29 (132)-G081419	8/14/2019	GW	19081137-29A	FS	36
19081137	MW-29(82.5)	ATR-MW29 (82.5)-G081419	8/14/2019	GW	19081137-30A	FS	36
19081137	MW-31(139.2)	ATR-MW31 (139.2)- G081419	8/14/2019	GW	19081137-20A	FS	36
19081137	MW-31(30.9)	ATR-MW31 (30.9)-G081419	8/14/2019	GW	19081137-24A	FS	36
19081137	MW-31(55.5)	ATR-MW31 (55.5)-G081419	8/14/2019	GW	19081137-21A	FS	36
19081137	MW-31(98.5)	ATR-MW31 (98.5)-G081419	8/14/2019	GW	19081137-22A	FS	36
19081137	MW-31(98.5)	ATR-MW31 (98.5)-G081419R	8/14/2019	GW	19081137-23A	FD	36
19081137	MW-35(148)	ATR-MW35 (148)- G081419	8/14/2019	GW	19081137-19A	FS	36
19081137	MW-35(45)	ATR-MW35 (45)- G081419	8/14/2019	GW	19081137-16A	FS	36
19081137	MW-35(90)	ATR-MW35 (90)- G081419	8/14/2019	GW	19081137-17A	FS	36
19081137	MW-36(124.5)	ATR-MW36 (124.5)- G081319	8/13/2019	GW	19081137-14A	FS	36
19081137	MW-36(35.2)	ATR-MW36 (35.2)- G081319	8/13/2019	GW	19081137-15A	FS	36
19081137	MW-36(92.4)	ATR-MW36 (92.4)- G081319	8/13/2019	GW	19081137-13A	FS	36
19081137	MW-37(23.3)	ATR-MW37 (23.3)- G081319	8/13/2019	GW	19081137-01A	FS	36
19081137	MW-37(70)	ATR-MW37 (70)- G081319	8/13/2019	GW	19081137-02A	FS	36
19081137	MW-37(98)	ATR-MW37 (98)- G081319	8/13/2019	GW	19081137-03A	FS	36
19081137	MW-38(102.5)	ATR-MW38 (102.5)- G081319	8/13/2019	GW	19081137-08A	FS	36
19081137	MW-38(20.8)	ATR-MW38 (20.8)- G081319	8/13/2019	GW	19081137-09A	FS	36
19081137	MW-38(29.1)	ATR-MW38 (29.1)- G081319	8/13/2019	GW	19081137-10A	FS	36
19081137	MW-38(69.9)	ATR-MW38 (69.9)- G081319	8/13/2019	GW	19081137-11A	FS	36
19081137	MW-38(69.9)	ATR-MW38 (69.9)- G081319R	8/13/2019	GW	19081137-12A	FD	36
19081137	MW-39(13)	ATR-MW39 (13)- G081319	8/13/2019	GW	19081137-06A	FS	36
19081137	MW-39(29.3)	ATR-MW39 (29.3)- G081319	8/13/2019	GW	19081137-05A	FS	36
19081137	MW-39(76.8)	ATR-MW39 (76.7)- G081319	8/13/2019	GW	19081137-04A	FS	36
19081137	MW-50(45)	ATR-MW50 (45)-G081419	8/14/2019	GW	19081137-28A	FS	36
19081137	MW-50(80)	ATR-MW50 (80)-G081419	8/14/2019	GW	19081137-27A	FS	36
19081137	MW-51(25)	ATR-MW51 (25)-G081419	8/14/2019	GW	19081137-26A	FS	36
19081137	MW-51(70)	ATR-MW51 (70)-G081419	8/14/2019	GW	19081137-25A	FS	36
19081137	QC	ATR-EB001-081319	8/13/2019	BW	19081137-07A	EB	36
19081137	QC	ATR-EB001-081419	8/14/2019	BW	19081137-18A	EB	36
19081137	QC	ATR-TB001-081419	8/14/2019	BW	19081137-32A	TB	36
19081281	MW-1	ATR-MW1 - G081519	8/15/2019	GW	19081281-05A	FS	36
19081281	MW-19(53)	ATR-MW19 (53) - G081619	8/16/2019	GW	19081281-16A	FS	36
19081281	MW-24(55.9)	ATR-MW24 (55) - G081619	8/16/2019	GW	19081281-19A	FS	36
19081281	MW-24(55.9)	ATR-MW24 (55) - G081619R	8/16/2019	GW	19081281-20A	FD	36
19081281	MW-30(41.1)	ATR-MW30 (41.1) - G081519	8/15/2019	GW	19081281-04A	FS	36
19081281	MW-32(110)	ATR-MW32 (110) - G081519	8/15/2019	GW	19081281-01A	FS	36
19081281	MW-32(24.1)	ATR-MW32 (24.1) - G081519	8/15/2019	GW	19081281-03A	FS	36
19081281	MW-32(89)	ATR-MW32 (89) - G081519	8/15/2019	GW	19081281-02A	FS	36
19081281	MW-34(110)	ATR-MW34 (110) - G081519	8/15/2019	GW	19081281-10A	FS	36
19081281	MW-34(37)	ATR-MW34 (37) - G081519	8/15/2019	GW	19081281-09A	FS	36
19081281	MW-34(85)	ATR-MW34 (84) - G081519	8/15/2019	GW	19081281-08A	FS	36

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

						Method	SW8260C
SDG	**Location**	**Field Sample ID**	**Sample Date**	**Matrix**	**Lab Sample ID**	**Sample Type**	**Count**
19081281	MW-45(185)	ATR-MW45 (185) - G081619	8/16/2019	GW	19081281-23A	FS	36
19081281	MW-48(159)	ATR-MW48 (159) - G081519	8/15/2019	GW	19081281-06A	FS	36
19081281	MW-48(159)	ATR-MW48 (159) - G081519R	8/15/2019	GW	19081281-07A	FD	36
19081281	MW-53(41)	ATR-MW53 (41) - G081619	8/16/2019	GW	19081281-18A	FS	36
19081281	MW-55(49)	ATR-MW55 (49) - G081619	8/16/2019	GW	19081281-22A	FS	36
19081281	MW-57(38)	ATR-MW57 (38) - G081619	8/16/2019	GW	19081281-21A	FS	36
19081281	MW-62(36)	ATR-MW62 (36)-G081619	8/16/2019	GW	19081281-15A	FS	36
19081281	MW-83(64)	ATR-MW83 (64) - G081619	8/16/2019	GW	19081281-14A	FS	36
19081281	MW-85(130)	ATR-MW85 (130) - G081519	8/15/2019	GW	19081281-13A	FS	36
19081281	MW-85(39)	ATR-MW85 (39) - G081519	8/15/2019	GW	19081281-12A	FS	36
19081281	QC	ATR-EB001 - 081519	8/15/2019	BW	19081281-11A	EB	36
19081281	QC	ATR-EB001 - 081619	8/16/2019	BW	19081281-17A	EB	36
19081281	QC	Trip Blank	8/16/2019	BW	19081281-24A	TB	36
19081608	MW-14	ATR-MW14-G082019	8/20/2019	GW	19081608-07A	FS	36
19081608	MW-15	ATR-MW15-G082019	8/20/2019	GW	19081608-08A	FS	36
19081608	MW-17	ATR-MW17-G082019	8/20/2019	GW	19081608-11A	FS	36
19081608	MW-20(51)	ATR-MW20(51)-G082019	8/20/2019	GW	19081608-13A	FS	36
19081608	MW-25(16.4)	ATR-MW25(16.4)-G082019	8/20/2019	GW	19081608-14A	FS	36
19081608	MW-25(32.6)	ATR-MW25(32.6)-G082019	8/20/2019	GW	19081608-10A	FS	36
19081608	MW-25(82)	ATR-MW25(82)-G082019	8/20/2019	GW	19081608-09A	FS	36
19081608	MW-26(17.5)	ATR-MW26(17.5)-G081919	8/19/2019	GW	19081608-03A	FS	36
19081608	MW-26(28.8)	ATR-MW26(28.8)-G081919	8/19/2019	GW	19081608-01A	FS	36
19081608	MW-26(58.8)	ATR-MW26(58.2)-G081919	8/19/2019	GW	19081608-02A	FS	36
19081608	MW-27(18)	ATR-MW27(18)-G081919	8/19/2019	GW	19081608-05A	FS	36
19081608	MW-27(18)	ATR-MW27(18)-G081919R	8/19/2019	GW	19081608-06A	FS	36
19081608	MW-6C	ATR-MW6C-G082119	8/21/2019	GW	19081608-15A	FS	36
19081608	MW-82(58)	ATR-MW82(58)-G082019	8/20/2019	GW	19081608-12A	FS	36
19081608	QC	ATR-EB001-081919	8/19/2019	BW	19081608-04A	EB	36
19081608	QC	ATR-EB001-082119	8/21/2019	BW	19081608-16A	EB	36
19081608	QC	ATR-TR003-082119	8/21/2019	BW	19081608-17A	TB	36
19081615	MW-11	ATR-MW11-G082019	8/20/2019	GW	19081615-12A	FS	36
19081615	MW-12	ATR-MW12-G082019	8/20/2019	GW	19081615-13A	FS	36
19081615	MW-13	ATR-MW13-G082019	8/20/2019	GW	19081615-11A	FS	36
19081615	MW-16	ATR-MW16-G081919	8/19/2019	GW	19081615-03A	FS	36
19081615	MW-20(124)	ATR-MW20(124)-G082019	8/20/2019	GW	19081615-14A	FS	36
19081615	MW-20(155)	ATR-MW20(155)-G082019	8/20/2019	GW	19081615-10A	FS	36
19081615	MW-20(35)	ATR-MW20(35)-G082019	8/20/2019	GW	19081615-09A	FS	36
19081615	MW-27(104.2)	ATR-MW27(104.2)-G081919	8/19/2019	GW	19081615-08A	FS	36
19081615	MW-27(53.05)	ATR-MW27(53.05)-G081919	8/19/2019	GW	19081615-06A	FS	36
19081615	MW-27(75.4)	ATR-MW27(75.4)-G081919	8/19/2019	GW	19081615-07A	FS	36
19081615	MW-56(50)	ATR-MW56(51)-G082119	8/21/2019	GW	19081615-16A	FS	36
19081615	MW-84(44)	ATR-MW84(44)-G081919	8/19/2019	GW	19081615-02A	FS	36
19081615	MW-84(65)	ATR-MW84(68)-G081919	8/19/2019	GW	19081615-01A	FS	36

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
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						Method	SW8260C
SDG	**Location**	**Field Sample ID**	**Sample Date**	**Matrix**	**Lab Sample ID**	**Sample Type**	**Count**
19081615	MW-89(28)	ATR-MW89(28)-G082119	8/21/2019	GW	19081615-17A	FS	36
19081615	MW-9B	ATR-MW9B-G081919	8/19/2019	GW	19081615-05A	FS	36
19081615	MW-9C	ATR-MW9C-G081919	8/19/2019	GW	19081615-04A	FS	36
19081615	QC	ATR-EB001-082019	8/20/2019	BW	19081615-15A	EB	36
19081615	QC	ATR-TB001-082119	8/21/2019	BW	19081615-18A	TB	36
19081622	OW-01(39)	ATR-OW1(39)-G082119	8/21/2019	GW	19081622-01A	FS	36
19081622	OW-02(33)	ATR-OW2(33)-G082119	8/21/2019	GW	19081622-02A	FS	36
19081622	OW-02(53)	ATR-OW2(53)-G082119	8/21/2019	GW	19081622-03A	FS	36
19081622	OW-03(35)	ATR-OW3(35)-G082119	8/21/2019	GW	19081622-04A	FS	36
19081622	OW-03(55)	ATR-OW3(55)-G082119	8/21/2019	GW	19081622-05A	FS	36
19081622	OW-04(35)	ATR-OW4(35)-G082119	8/21/2019	GW	19081622-06A	FS	36
19081622	OW-04(54)	ATR-OW4(54)-G082119	8/21/2019	GW	19081622-07A	FS	36
19081622	OW-05(16)	ATR-OW5(16)-G082119	8/21/2019	GW	19081622-08A	FS	36
19081622	OW-05(35)	ATR-OW5(35)-G082119	8/21/2019	GW	19081622-09A	FS	36
19081622	OW-05(54)	ATR-OW5(44)-G082119	8/21/2019	GW	19081622-10A	FS	36
19081622	OW-06(38)	ATR-OW6(37)-G082119	8/21/2019	GW	19081622-11A	FS	36
19081622	OW-06(63)	ATR-OW6(63)-G082119	8/21/2019	GW	19081622-12A	FS	36
19081622	OW-06(63)	ATR-OW6(63)-G082119R	8/21/2019	GW	19081622-13A	FD	36
19081622	QC	ATR-TB002-082119	8/21/2019	BW	19081622-14A	TB	36
19081711	MW-3	ATR-MW3-G082219	8/22/2019	GW	19081711-04A	FS	36
19081711	MW-52(148)	ATR-MW52 (148)-G082219	8/22/2019	GW	19081711-02A	FS	36
19081711	MW-52(55)	ATR-MW52(55)-G082219	8/22/2019	GW	19081711-03A	FS	36
19081711	MW-60(38)	ATR-MW60 (38)-G082219	8/22/2019	GW	19081711-05A	FS	36
19081711	MW-65(32)	ATR-MW65 (32)-G082219	8/22/2019	GW	19081711-12A	FS	36
19081711	MW-67(30)	ATR-MW67 (30)-G082219	8/22/2019	GW	19081711-11A	FS	36
19081711	MW-71(33)	ATR-MW71(33)-G082219	8/22/2019	GW	19081711-01A	FS	36
19081711	MW-75(32)	ATR-MW75 (30)-G082219	8/22/2019	GW	19081711-13A	FS	36
19081711	MW-76(30)	ATR-MW76 (30)-G082219	8/22/2019	GW	19081711-07A	FS	36
19081711	MW-77(41)	ATR-MW77 (41)-G082219	8/22/2019	GW	19081711-09A	FS	36
19081711	MW-78(35)	ATR-MW78 (35)-G082219	8/22/2019	GW	19081711-10A	FS	36
19081711	MW-79(30)	ATR-MW79 (30)-G082219	8/22/2019	GW	19081711-08A	FS	36
19081711	QC	ATR-EB001-G082219	8/22/2019	BW	19081711-06A	EB	36
19081711	QC	ATR-FB001-G082219	8/22/2019	BW	19081711-14A	FB	36
19081718	MW-59(29)	ATR-MW59 (29)-G082219	8/22/2019	GW	19081718-04A	FS	36
19081718	MW-59(29)	ATR-MW59 (29)-G082219R	8/22/2019	GW	19081718-05A	FD	36
19081718	MW-59(46)	ATR-MW59 (46)-G082219	8/22/2019	GW	19081718-03A	FS	36
19081718	MW-68(32)	ATR-MW68 (32)-G082219	8/22/2019	GW	19081718-01A	FS	36
19081718	MW-72(32)	ATR-MW72 (32)-G082219	8/22/2019	GW	19081718-02A	FS	36
19081718	MW-81(27)	ATR-MW81 (27)-G082219	8/21/2019	GW	19081718-06A	FS	36

Notes:
BW = blank water
EB = equipment blank

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Location	Field Sample ID	Sample Date	Matrix	Lab Sample ID	Method Sample Type	SW8260C Count

FD = field duplicate
FS = field sample
GW = groundwater
TB = trip blank

Created by: WCG 09/23/2019
Checked by: LLK 09/24/2019

TABLE 2 - QC LIMITS
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

PARAMETER	QC TEST	ANALYTE	WATER (%)	WATER RPD
Volatiles	**Surrogate**	All Surrogates(1)	85 - 115	
	LCS	All Target Compounds	70 - 130	
	MS/MSD	All Target Compounds	70 - 130	20(2)
	Field Duplicates	All Target Compounds		25(3)

Notes:
LCS - Laboratory Control Sample
MS/MSD - Matrix Spike/ Matrix Spike Duplicate
(1) Project-specific limits for surrogate recovery review/validation are established based on subcontract laboratory and Indiana Department of Environmental Management (IDEM) recommended control limits. The project limits are used for evaluation of recovery for all surrogates during data validation.
(2) Both results are > 5X the sample quantitation limit (SQL). For aqueous results < 5X the SQL use ± SQL value. For solid media (soil and sediment) use ± 2X SQL value.
(3) Both results are > 5X the SQL. For aqueous results < 5X the SQL use ± 1.5X SQL value. For solid media (soil and sediment) use ± 2.5X SQL value.

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result	Lab Qual	Final Result	Final Qual	Val Reason Code	Units
19081137	SW8260C	19081137-31A	8/14/2019	ATR-MW29 (103.3)-G081419	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081137	SW8260C	19081137-29A	8/14/2019	ATR-MW29 (132)-G081419	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081137	SW8260C	19081137-30A	8/14/2019	ATR-MW29 (82.5)-G081419	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081137	SW8260C	19081137-03A	8/13/2019	ATR-MW37 (98)- G081319	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,1,1-Trichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,1,2-Trichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,1-Dichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,1-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,2-Dichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	1,2-Dichloropropane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	2-Butanone	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	2-Hexanone	5	U	5	UJ	MSL, SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	4-Methyl-2-pentanone	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Acetone	10	U	10	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Benzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Bromodichloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Bromoform	1	U	1	UJ	MSL, SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Bromomethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Carbon disulfide	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Carbon tetrachloride	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Chlorobenzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Chloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Chloroform	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Chloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	cis-1,2-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	cis-1,3-Dichloropropene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Dibromochloromethane	1	U	1	UJ	MSL, SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Ethylbenzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Methylene chloride	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Styrene	1	U	1	UJ	SSL	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
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ROCHESTER, INDIANA

SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result	Lab Qual	Final Result	Final Qual	Val Reason Code	Units
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Tetrachloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Toluene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	trans-1,2-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	trans-1,3-Dichloropropene	1	U	1	UJ	MSL, SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Trichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Vinyl chloride	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Xylene, o	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Xylenes (m&p)	2	U	2	UJ	SSL	UG/L
19081137	SW8260C	19081137-06A	8/13/2019	ATR-MW39 (13)- G081319	Xylenes, Total	3	U	3	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,1,1-Trichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,1,2-Trichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,1-Dichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,1-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,2-Dichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	1,2-Dichloropropane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	2-Butanone	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	2-Hexanone	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	4-Methyl-2-pentanone	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Acetone	10	U	10	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Benzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Bromodichloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Bromoform	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Bromomethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Carbon disulfide	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Carbon tetrachloride	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Chlorobenzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Chloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Chloroform	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Chloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	cis-1,2-Dichloroethene	1	U	1	UJ	SSL	UG/L

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19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	cis-1,3-Dichloropropene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Dibromochloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Ethylbenzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Methylene chloride	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Styrene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Tetrachloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Toluene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	trans-1,2-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	trans-1,3-Dichloropropene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Trichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Vinyl chloride	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Xylene, o	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Xylenes (m&p)	2	U	2	UJ	SSL	UG/L
19081137	SW8260C	19081137-05A	8/13/2019	ATR-MW39 (29.3)- G081319	Xylenes, Total	3	U	3	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,1,1-Trichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,1,2-Trichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,1-Dichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,1-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,2-Dichloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	1,2-Dichloropropane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	2-Butanone	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	2-Hexanone	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	4-Methyl-2-pentanone	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Acetone	10	U	10	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Benzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Bromodichloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Bromoform	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Bromomethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Carbon disulfide	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Carbon tetrachloride	1	U	1	UJ	SSL	UG/L

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19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Chlorobenzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Chloroethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Chloroform	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Chloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	cis-1,2-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	cis-1,3-Dichloropropene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Dibromochloromethane	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Ethylbenzene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Methylene chloride	5	U	5	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Styrene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Tetrachloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Toluene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	trans-1,2-Dichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	trans-1,3-Dichloropropene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Trichloroethene	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Vinyl chloride	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Xylene, o	1	U	1	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Xylenes (m&p)	2	U	2	UJ	SSL	UG/L
19081137	SW8260C	19081137-04A	8/13/2019	ATR-MW39 (76.7)- G081319	Xylenes, Total	3	U	3	UJ	SSL	UG/L
19081137	SW8260C	19081137-28A	8/14/2019	ATR-MW50 (45)-G081419	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-05A	8/15/2019	ATR-MW1 - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-19A	8/16/2019	ATR-MW24 (55) - G081619	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-20A	8/16/2019	ATR-MW24 (55) - G081619R	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-04A	8/15/2019	ATR-MW30 (41.1) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-01A	8/15/2019	ATR-MW32 (110) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-03A	8/15/2019	ATR-MW32 (24.1) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-02A	8/15/2019	ATR-MW32 (89) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-10A	8/15/2019	ATR-MW34 (110) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-09A	8/15/2019	ATR-MW34 (37) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-08A	8/15/2019	ATR-MW34 (84) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-23A	8/16/2019	ATR-MW45 (185) - G081619	2-Hexanone	5	U	5	UJ	CCV%D	UG/L

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19081281	SW8260C	19081281-06A	8/15/2019	ATR-MW48 (159) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-07A	8/15/2019	ATR-MW48 (159) - G081519R	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-18A	8/16/2019	ATR-MW53 (41) - G081619	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-22A	8/16/2019	ATR-MW55 (49) - G081619	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-21A	8/16/2019	ATR-MW57 (38) - G081619	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-14A	8/16/2019	ATR-MW83 (64) - G081619	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-13A	8/15/2019	ATR-MW85 (130) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081281	SW8260C	19081281-12A	8/15/2019	ATR-MW85 (39) - G081519	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-08A	8/20/2019	ATR-MW15-G082019	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-10A	8/20/2019	ATR-MW25(32.6)-G082019	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-09A	8/20/2019	ATR-MW25(82)-G082019	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-03A	8/19/2019	ATR-MW26(17.5)-G081919	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-01A	8/19/2019	ATR-MW26(28.8)-G081919	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-02A	8/19/2019	ATR-MW26(58.2)-G081919	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-05A	8/19/2019	ATR-MW27(18)-G081919	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081608	SW8260C	19081608-06A	8/19/2019	ATR-MW27(18)-G081919R	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081615	SW8260C	19081615-03A	8/19/2019	ATR-MW16-G081919	Bromomethane	1	U	1	UJ	CCV%D	UG/L
19081615	SW8260C	19081615-03A	8/19/2019	ATR-MW16-G081919	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
19081615	SW8260C	19081615-03A	8/19/2019	ATR-MW16-G081919	Vinyl chloride	1	U	1	UJ	CCV%D	UG/L
19081622	SW8260C	19081622-01A	8/21/2019	ATR-OW1(39)-G082119	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081622	SW8260C	19081622-01A	8/21/2019	ATR-OW1(39)-G082119	Chloroethane	1	U	1	UJ	CCV%D	UG/L
19081622	SW8260C	19081622-12A	8/21/2019	ATR-OW6(63)-G082119	Acetone	19		19	U	BL2	UG/L
19081622	SW8260C	19081622-13A	8/21/2019	ATR-OW6(63)-G082119R	Acetone	19		19	U	BL2	UG/L
19081711	SW8260C	19081711-05A	8/22/2019	ATR-MW60 (38)-G082219	Vinyl chloride	430		430	J+	MSH	UG/L
19081711	SW8260C	19081711-01A	8/22/2019	ATR-MW71(33)-G082219	Carbon disulfide	1.2		1.2	J	LCSH, MSRPD	UG/L
19081718	SW8260C	19081718-04A	8/22/2019	ATR-MW59 (29)-G082219	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-04A	8/22/2019	ATR-MW59 (29)-G082219	4-Methyl-2-pentanone	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-04A	8/22/2019	ATR-MW59 (29)-G082219	Bromomethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-05A	8/22/2019	ATR-MW59 (29)-G082219R	2-Hexanone	5	U	5	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-05A	8/22/2019	ATR-MW59 (29)-G082219R	4-Methyl-2-pentanone	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-05A	8/22/2019	ATR-MW59 (29)-G082219R	Bromomethane	1	U	1	UJ	CCV%D	UG/L

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19081718	SW8260C	19081718-03A	8/22/2019	ATR-MW59 (46)-G082219	1,1,2,2-Tetrachloroethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-03A	8/22/2019	ATR-MW59 (46)-G082219	4-Methyl-2-pentanone	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-03A	8/22/2019	ATR-MW59 (46)-G082219	Bromomethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-01A	8/22/2019	ATR-MW68 (32)-G082219	1,1,2,2-Tetrachloroethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-01A	8/22/2019	ATR-MW68 (32)-G082219	4-Methyl-2-pentanone	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-01A	8/22/2019	ATR-MW68 (32)-G082219	Bromomethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-02A	8/22/2019	ATR-MW72 (32)-G082219	1,1,2,2-Tetrachloroethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-02A	8/22/2019	ATR-MW72 (32)-G082219	4-Methyl-2-pentanone	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-02A	8/22/2019	ATR-MW72 (32)-G082219	Bromomethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-06A	8/21/2019	ATR-MW81 (27)-G082219	1,1,2,2-Tetrachloroethane	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-06A	8/21/2019	ATR-MW81 (27)-G082219	4-Methyl-2-pentanone	1	U	1	UJ	CCV%D	UG/L
19081718	SW8260C	19081718-06A	8/21/2019	ATR-MW81 (27)-G082219	Bromomethane	1	U	1	UJ	CCV%D	UG/L

Notes:
BL2 = detected in trip blank
CCV%D = continuing calibration percent difference exceeds QC limit
FD = field duplicate precision goal not met
J = value is estimated
J+ = value is estimated biased high
LCSL = LCS recovery low
MSH = matrix spike recovery high
MSL = matrix spike recovery low
MSRPD = matrix spike relative percent difference
SSL = surrogate standard recovery low
U = not detected, value is the detection limit
UG/L = microgram per liter

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-29(103.3)		MW-29(132.8)		MW-29(82.5)		MW-31(139.2)	
		Date Collected:	08/14/19		08/14/19		08/14/19		08/14/19	
		Field Sample ID:	ATR-MW29 (103.3)-G081419		ATR-MW29 (132)-G081419		ATR-MW29 (82.5)-G081419		ATR-MW31 (139.2)- G081419	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-31(30.9)		MW-31(55.5)		MW-31(98.5)		MW-31(98.5)	
		Date Collected:	08/14/19		08/14/19		08/14/19		08/14/19	
		Field Sample ID:	ATR-MW31 (30.9)-G081419		ATR-MW31 (55.5)-G081419		ATR-MW31 (98.5)-G081419		ATR-MW31 (98.5)-G081419R	
		Type:	FS		FS		FS		FD	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	3		3	
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-35(148)		MW-35(45)		MW-35(90)		MW-36(124.5)	
		Date Collected:	08/14/19		08/14/19		08/14/19		08/13/19	
		Field Sample ID:	ATR-MW35 (148)- G081419		ATR-MW35 (45)- G081419		ATR-MW35 (90)- G081419		ATR-MW36 (124.5)- G081319	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	2.3		1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-36(35.2)		MW-36(92.4)		MW-37(23.3)		MW-37(70)	
		Date Collected:	08/13/19		08/13/19		08/13/19		08/13/19	
		Field Sample ID:	ATR-MW36 (35.2)- G081319		ATR-MW36 (92.4)- G081319		ATR-MW37 (23.3)- G081319		ATR-MW37 (70)- G081319	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-37(98)		MW-38(102.5)		MW-38(20.8)		MW-38(29.1)	
		Date Collected:	08/13/19		08/13/19		08/13/19		08/13/19	
		Field Sample ID:	ATR-MW37 (98)- G081319		ATR-MW38 (102.5)- G081319		ATR-MW38 (20.8)- G081319		ATR-MW38 (29.1)- G081319	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-38(69.9)		MW-38(69.9)		MW-39(13)		MW-39(29.3)	
		Date Collected:	08/13/19		08/13/19		08/13/19		08/13/19	
		Field Sample ID:	ATR-MW38 (69.9)- G081319		ATR-MW38 (69.9)- G081319R		ATR-MW39 (13)- G081319		ATR-MW39 (29.3)- G081319	
		Type:	FS		FD		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	2-Butanone	5	U	5	U	5	UJ	5	UJ
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	UJ	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Acetone	10	U	10	U	10	UJ	10	UJ
SW8260C	UG/L	Benzene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Bromoform	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Bromomethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Chloroethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Chloroform	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Chloromethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	UJ	5	UJ
SW8260C	UG/L	Styrene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Toluene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Vinyl chloride	2.4		3		1	UJ	1	UJ
SW8260C	UG/L	Xylene, o	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	UJ	2	UJ
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	UJ	3	UJ

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-39(76.8)		MW-50(45)		MW-50(80)		MW-51(25)	
		Date Collected:	08/13/19		08/14/19		08/14/19		08/14/19	
		Field Sample ID:	ATR-MW39 (76.7)- G081319		ATR-MW50 (45)-G081419		ATR-MW50 (80)-G081419		ATR-MW51 (25)-G081419	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	UJ	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	UJ	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	UJ	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	UJ	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	UJ	1.4		1.2		1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	UJ	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	UJ	1.3		1	U	1	U
SW8260C	UG/L	Xylene, o	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	UJ	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	UJ	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081137		19081137		19081137		19081137	
		Location:	MW-51(70)		QC		QC		QC	
		Date Collected:	08/14/19		08/13/19		08/14/19		08/14/19	
		Field Sample ID:	ATR-MW51 (70)-G081419		ATR-EB001-081319		ATR-TB001-081419		ATR-EB001-081419	
		Type:	FS		EB		TB		EB	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1.2		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081281		19081281		19081281		19081281	
		Location:	MW-1		MW-19(53)		MW-24(55.9)		MW-24(55.9)	
		Date Collected:	08/15/19		08/16/19		08/16/19		08/16/19	
		Field Sample ID:	ATR-MW1 - G081519		ATR-MW19 (53) - G081619		ATR-MW24 (55) - G081619		ATR-MW24 (55) - G081619R	
		Type:	FS		FS		FS		FD	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	UJ	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	2.1		1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1.6		1.1		2.4		1.3	
SW8260C	UG/L	cis-1,2-Dichloroethene	1		24		1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	23		1.4		1.2	
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081281		19081281		19081281		19081281	
		Location:	MW-30(41.1)		MW-32(110)		MW-32(24.1)		MW-32(89)	
		Date Collected:	08/15/19		08/15/19		08/15/19		08/15/19	
		Field Sample ID:	ATR-MW30 (41.1) - G081519		ATR-MW32 (110) - G081519		ATR-MW32 (24.1) - G081519		ATR-MW32 (89) - G081519	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	110		1	U	1.5		1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	2.5		1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	42		1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	2.6		1	U	1	U	14	
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081281		19081281		19081281		19081281	
		Location:	MW-34(110)		MW-34(37)		MW-34(85)		MW-45(185)	
		Date Collected:	08/15/19		08/15/19		08/15/19		08/16/19	
		Field Sample ID:	ATR-MW34 (110) - G081519		ATR-MW34 (37) - G081519		ATR-MW34 (84) - G081519		ATR-MW45 (185) - G081619	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1.7		1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	7		1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1.1		1	U	20		1	U
SW8260C	UG/L	Vinyl chloride	1.2		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081281		19081281		19081281		19081281	
		Location:	MW-48(159)		MW-48(159)		MW-53(41)		MW-55(49)	
		Date Collected:	08/15/19		08/15/19		08/16/19		08/16/19	
		Field Sample ID:	ATR-MW48 (159) - G081519		ATR-MW48 (159) - G081519R		ATR-MW53 (41) - G081619		ATR-MW55 (49) - G081619	
		Type:	FS		FD		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1.7	
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1.9	
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081281		19081281		19081281		19081281	
		Location:	MW-57(38)		MW-62(36)		MW-83(64)		MW-85(130)	
		Date Collected:	08/16/19		08/16/19		08/16/19		08/15/19	
		Field Sample ID:	ATR-MW57 (38) - G081619		ATR-MW62 (36)-G081619		ATR-MW83 (64) - G081619		ATR-MW85 (130) - G081519	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	UJ	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	UJ	1	UJ
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1.8		1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	8.3		1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	5.3		1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1.2		1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081281		19081281		19081281		19081281	
		Location:	MW-85(39)		QC		QC		QC	
		Date Collected:	08/15/19		08/15/19		08/16/19		08/16/19	
		Field Sample ID:	ATR-MW85 (39) - G081519		ATR-EB001 - 081519		Trip Blank		ATR-EB001 - 081619	
		Type:	FS		EB		TB		EB	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

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UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081608		19081608		19081608		19081608	
		Location:	MW-14		MW-15		MW-17		MW-20(51)	
		Date Collected:	08/20/19		08/20/19		08/20/19		08/20/19	
		Field Sample ID:	ATR-MW14-G082019		ATR-MW15-G082019		ATR-MW17-G082019		ATR-MW20(51)-G082019	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	17		5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	UJ	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1.5		1	U	20		1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	39		1	U
SW8260C	UG/L	Vinyl chloride	1.1		1	U	1.6		1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081608		19081608		19081608		19081608	
		Location:	MW-25(16.4)		MW-25(32.6)		MW-25(82)		MW-26(17.5)	
		Date Collected:	08/20/19		08/20/19		08/20/19		08/19/19	
		Field Sample ID:	ATR-MW25(16.4)-G082019		ATR-MW25(32.6)-G082019		ATR-MW25(82)-G082019		ATR-MW26(17.5)-G081919	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	UJ	5	UJ	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1.5		1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	3.6		1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081608		19081608		19081608		19081608	
		Location:	MW-26(28.8)		MW-26(58.8)		MW-27(18)		MW-27(18)	
		Date Collected:	08/19/19		08/19/19		08/19/19		08/19/19	
		Field Sample ID:	ATR-MW26(28.8)-G081919		ATR-MW26(58.2)-G081919		ATR-MW27(18)-G081919		ATR-MW27(18)-G081919R	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	UJ	5	UJ	5	UJ	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1.9		1	U	1	U	1.3	
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1.1		1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081608		19081608		19081608		19081608	
		Location:	MW-6C		MW-82(58)		QC		QC	
		Date Collected:	08/21/19		08/20/19		08/19/19		08/21/19	
		Field Sample ID:	ATR-MW6C-G082119		ATR-MW82(58)-G082019		ATR-EB001-081919		ATR-TR003-082119	
		Type:	FS		FS		EB		TB	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1.5		1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	4		1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	2.3		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081608		19081615		19081615		19081615	
		Location:	QC		MW-11		MW-12		MW-13	
		Date Collected:	08/21/19		08/20/19		08/20/19		08/20/19	
		Field Sample ID:	ATR-EB001-082119		ATR-MW11-G082019		ATR-MW12-G082019		ATR-MW13-G082019	
		Type:	EB		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1.6		1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081615		19081615		19081615		19081615	
		Location:	MW-16		MW-20(124)		MW-20(155)		MW-20(35)	
		Date Collected:	08/19/19		08/20/19		08/20/19		08/20/19	
		Field Sample ID:	ATR-MW16-G081919		ATR-MW20(124)-G082019		ATR-MW20(155)-G082019		ATR-MW20(35)-G082019	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081615		19081615		19081615		19081615	
		Location:	MW-27(104.2)		MW-27(53.05)		MW-27(75.4)		MW-56(50)	
		Date Collected:	08/19/19		08/19/19		08/19/19		08/21/19	
		Field Sample ID:	ATR-MW27(104.2)-G081919		ATR-MW27(53.05)-G081919		ATR-MW27(75.4)-G081919		ATR-MW56(51)-G082119	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1.1		1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	2.9		1.7	
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	3.9		7.8		1	U
SW8260C	UG/L	Vinyl chloride	2		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081615		19081615		19081615		19081615	
		Location:	MW-84(44)		MW-84(65)		MW-89(28)		MW-9B	
		Date Collected:	08/19/19		08/19/19		08/21/19		08/19/19	
		Field Sample ID:	ATR-MW84(44)-G081919		ATR-MW84(68)-G081919		ATR-MW89(28)-G082119		ATR-MW9B-G081919	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	3.6		1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	2.6		1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	35		1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081615		19081615		19081615		19081622	
		Location:	MW-9C		QC		QC		OW-01(39)	
		Date Collected:	08/19/19		08/20/19		08/21/19		08/21/19	
		Field Sample ID:	ATR-MW9C-G081919		ATR-EB001-082019		ATR-TB001-082119		ATR-OW1(39)-G082119	
		Type:	FS		EB		TB		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	UJ
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081622		19081622		19081622		19081622	
		Location:	OW-02(33)		OW-02(53)		OW-03(35)		OW-03(55)	
		Date Collected:	08/21/19		08/21/19		08/21/19		08/21/19	
		Field Sample ID:	ATR-OW2(33)-G082119		ATR-OW2(53)-G082119		ATR-OW3(35)-G082119		ATR-OW3(55)-G082119	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	7	
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081622		19081622		19081622		19081622	
		Location:	OW-04(35)		OW-04(54)		OW-05(16)		OW-05(35)	
		Date Collected:	08/21/19		08/21/19		08/21/19		08/21/19	
		Field Sample ID:	ATR-OW4(35)-G082119		ATR-OW4(54)-G082119		ATR-OW5(16)-G082119		ATR-OW5(35)-G082119	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081622		19081622		19081622		19081622	
		Location:	OW-05(54)		OW-06(38)		OW-06(63)		OW-06(63)	
		Date Collected:	08/21/19		08/21/19		08/21/19		08/21/19	
		Field Sample ID:	ATR-OW5(44)-G082119		ATR-OW6(37)-G082119		ATR-OW6(63)-G082119		ATR-OW6(63)-G082119R	
		Type:	FS		FS		FS		FD	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	55		57	
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	19	U	19	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081622		19081711		19081711		19081711	
		Location:	QC		MW-3		MW-52(148)		MW-52(55)	
		Date Collected:	08/21/19		08/22/19		08/22/19		08/22/19	
		Field Sample ID:	ATR-TB002-082119		ATR-MW3-G082219		ATR-MW52 (148)-G082219		ATR-MW52(55)-G082219	
		Type:	TB		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	11		10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	3.4		1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081711		19081711		19081711		19081711	
		Location:	MW-60(38)		MW-65(32)		MW-67(30)		MW-71(33)	
		Date Collected:	08/22/19		08/22/19		08/22/19		08/22/19	
		Field Sample ID:	ATR-MW60 (38)-G082219		ATR-MW65 (32)-G082219		ATR-MW67 (30)-G082219		ATR-MW71(33)-G082219	
		Type:	FS		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	3		1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5.3	
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	20		16	
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1.2	J
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	420		1	U	2.6		2	
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1.6		1.6	
SW8260C	UG/L	trans-1,2-Dichloroethene	2.4		1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	430	J+	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081711		19081711		19081711		19081711	
		Location:	MW-75(32)		MW-76(30)		MW-77(41)		MW-78(35)	
		Date Collected:	08/22/19		08/22/19		08/22/19		08/22/19	
		Field Sample ID:	ATR-MW75 (30)-G082219		ATR-MW76 (30)-G082219		ATR-MW77 (41)-G082219		ATR-MW78 (35)-G082219	
		Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	17		10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	46		1	U	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	2.2		1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	350		1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081711		19081711		19081711		19081718	
		Location:	MW-79(30)		QC		QC		MW-59(29)	
		Date Collected:	08/22/19		08/22/19		08/22/19		08/22/19	
		Field Sample ID:	ATR-MW79 (30)-G082219		ATR-EB001-G082219		ATR-FB001-G082219		ATR-MW59 (29)-G082219	
		Type:	FS		EB		FB		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	UJ
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	UJ
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	2.9	
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U	1	U	1	U	1	
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	2.7	
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	1	U	1	U	1	U	3.1	
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1.2	
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	2.6	
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	4.5	
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	7	

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J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081718		19081718		19081718		19081718	
		Location:	MW-59(29)		MW-59(46)		MW-68(32)		MW-72(32)	
		Date Collected:	08/22/19		08/22/19		08/22/19		08/22/19	
		Field Sample ID:	ATR-MW59 (29)-G082219R		ATR-MW59 (46)-G082219		ATR-MW68 (32)-G082219		ATR-MW72 (32)-G082219	
		Type:	FD		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier	Final Result	Final Qualifier
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	41		1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	9		44	
SW8260C	UG/L	2-Hexanone	5	UJ	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Acetone	10	U	10	U	12		66	
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	2.2		1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1.1		1200		12		1.3	
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	2.7		4.6		1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Toluene	3.1		3.9		1.4		2.4	
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	16		1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1.3		1600		44		1.9	
SW8260C	UG/L	Xylene, o	2.5		3.8		1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	4.4		3.7		2	U	2	U
SW8260C	UG/L	Xylenes, Total	6.9		7.5		3	U	3	U

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
AUGUST 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	19081718	
		Location:	MW-81(27)	
		Date Collected:	08/21/19	
		Field Sample ID:	ATR-MW81 (27)-G082219	
		Type:	FS	
Method	**Unit**	**Parameter**	**Final Result**	**Final Qualifier**
SW8260C	UG/L	1,1,1-Trichloroethane	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	UJ
SW8260C	UG/L	1,1,2-Trichloroethane	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U
SW8260C	UG/L	2-Butanone	5	U
SW8260C	UG/L	2-Hexanone	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	UJ
SW8260C	UG/L	Acetone	10	U
SW8260C	UG/L	Benzene	1	U
SW8260C	UG/L	Bromodichloromethane	1	U
SW8260C	UG/L	Bromoform	1	U
SW8260C	UG/L	Bromomethane	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U
SW8260C	UG/L	Chlorobenzene	1	U
SW8260C	UG/L	Chloroethane	1	U
SW8260C	UG/L	Chloroform	1	U
SW8260C	UG/L	Chloromethane	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene	1	U
SW8260C	UG/L	cis-1,3-Dichloropropene	1	U
SW8260C	UG/L	Dibromochloromethane	1	U
SW8260C	UG/L	Ethylbenzene	1.4	
SW8260C	UG/L	Methylene chloride	5	U
SW8260C	UG/L	Styrene	1	U
SW8260C	UG/L	Tetrachloroethene	1	U
SW8260C	UG/L	Toluene	7.8	
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U
SW8260C	UG/L	Trichloroethene	1	U
SW8260C	UG/L	Vinyl chloride	1	U
SW8260C	UG/L	Xylene, o	1.2	
SW8260C	UG/L	Xylenes (m&p)	2.4	
SW8260C	UG/L	Xylenes, Total	3.7	

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter
FS = Field Sample
FD = Field Duplicate
TB = Trip Blank