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2 August 2019

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

RE: Report of the First 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 First 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 first groundwater stability assessment monitoring event, which occurred in February 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 second stability groundwater monitoring event was completed at the Site during the week of 20 May 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.

'Wood' is a trading name for John Wood Group PLC and its subsidiaries

REPORT OF THE FIRST 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

August 2019

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.

CONTENTS

TABLES

FIGURES

APPENDICES

ACRONYMS

CVOC	chlorinated volatile organic compounds
DCE	dichloroethene
DO	dissolved oxygen
ERD	Enhanced Reductive Dechlorination
IDEM	Indiana Department of Environmental Management
ISCR	In-situ Chemical Reduction
µg/L	micrograms per liter
MS/MSD	matrix spike/matrix spike duplicate
NTU	Nephelometric Turbidity Units
ORP	oxygen reduction potential
QAPP	Quality Assurance Project Plan
RWP	Remediation Work Plan
TCE	trichloroethene
Site	former TORX facility
USEPA	U.S. Environmental Protection Agency
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 first groundwater stability assessment monitoring event. This first 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 (ERD) 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 first 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 first quarterly groundwater stability assessment monitoring and semi-annual treatment area monitoring event at the Site in February 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 first 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 were also analyzed for dissolved gases (methane, ethane, and ethene).

3.2 Field Activities

On 5 February 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 remediation 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 5 February 2019 and 7 February 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 (NTUs) 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 (USEPA) 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**. 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**. The analytical data from 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**.

For comparison purposes, groundwater concentration data obtained from the last performance groundwater monitoring event is provided as baseline concentrations. Please note that 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. The baseline concentration data is included on **Tables 3 and 4**. The baseline (last) 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.

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. The data for these wells is very similar to the results of the last performance

monitoring event from October 2018. 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.

4.1 Quarterly Stability Monitoring Results

Messenger wells [MW-6C, OW-1(39), MW-14, OW-2(33), OW-2(53)] analyzed as a part of the quarterly stability monitoring event indicate that with the exception of MW-6C, 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 29 micrograms per liter (µg/L) in October of 2018 to 4.9 µg/L in February 2019, while vinyl chloride decreased from 13 µg/L in October of 2018 to 2.1 µg/L in February 2019.

Perimeter of compliance wells [MW-17, MW-26(17.5), MW-26(28.8), MW-26(58.2), MW-27(18)] analyzed as a part of the stability monitoring event indicate That with the exception of MW-17, the perimeter of compliance wells were below reporting limits for the targeted CVOCs. In MW-17, cis-1,2-DCE decreased from 27 µg/L in October of 2018 to 21 µg/L in February of 2019. In MW-17, trichloroethene (TCE) decreased from 58 µg/L in October of 2018 to 42 µg/L in February of 2019. The current cis-1,2-DCE and TCE concentrations in MW-17 are at historical lows.

CVOCs were not detected at the down gradient wells [OW-6(38) and OW-6(63)].

4.2 Semi-Annual Treatment Area Monitoring Results

Semi-Annual Treatment Area monitoring wells analyzed as a part of the stability monitoring event indicate similar or reduced contaminant concentrations relative to baseline with the exception of MW-59(46) and MW-81(27). In MW-59(46) 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE and vinyl chloride increased in concentration. In MW-81(27), cis-1,2-DCE and vinyl chloride increased in concentration. Both MW-59(46) and MW-81(27) are 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 increased in MW-

59(29), MW-72(32) and MW-6C. Methane concentrations decreased in MW-81(27) and MW-68(32). Ethane concentrations decreased in MW-59(29) and MW-72(32). Ethane concentrations increased in MW-81(27), MW-68(32) and MW-6C. Ethene concentrations decreased in MW-81(27), MW-68(32), MW-72(32) and MW-6C. Ethene concentrations increased in MW-59(29).

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 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:

- Exceedances of greater than 20% calibration differences were noted for chloroethane, chloromethane and vinyl chloride. Except for vinyl chloride in monitoring well MW-81(27) and chloroethane in monitoring wells MW-81(27) and MW-59(29) these compounds were not detected in the associated samples and reporting limits were qualified estimated J/UJ.
- Percent recovery of carbon tetrachloride (69) in the laboratory control sample was less than the lower control limit of 70. Carbon tetrachloride was not detected in the associated samples and reporting limits were qualified estimated UJ. This compound is not a Site contaminant of concern.
- Percent recovery of vinyl chloride (67) in the laboratory control sample was slightly less than the lower control limit of 70. Except for vinyl chloride in monitoring wells, MW-25(82), MW-59(46), MW-81(27), MW-6C and MW-6C-R this compound was not detected in the associated samples and reporting limits were qualified estimated J/UJ.
- Matrix spike/matrix spike duplicate (MS/MSD) percent recoveries for several compounds including 1,1-DCE and trans-1,2-DCE were analyzed outside the specified control limits of 70-130%. Sample MW-59(46) had a 139% recovery in

the MS/MSD for 1,1-DCE, therefore the result was qualified estimated (J). These compounds were not detected in the other associated samples and reporting limits were qualified estimated J.

The relative percent differences for constituents detected in the primary and replicate samples were less than 25 percent indicating acceptable sampling and analytical precision. One trip blank, three equipment blanks, and two field replicates were submitted and analyzed for VOCs. No VOCs were detected in the trip, equipment, or field blanks.

5.0 UPCOMING ACTIVITES

The second groundwater stability assessment monitoring event was completed at the Site during the week of 20 May 2019, and the results from that event will be presented in the second Groundwater Stability Assessment Monitoring Report.

The next groundwater stability assessment monitoring event will occur in August 2019 and will include the annual groundwater monitoring event.

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[(1)]	Depth to Water (btoc)[(2)]	Ground Water Elevation
Stability Assessment Monitoring Wells				
MW-59(29)	02/05/19	799.57	14.55	785.02
MW-59(46)	02/06/19	799.25	14.18	785.07
MW-81(27)	02/05/19	798.34	14.92	783.42
MW-68(32)	02/05/19	809.46	24.67	784.79
MW-72(32)	02/05/19	808.92	24.07	784.85
MW-6C	02/05/19	810.40	25.60	784.80
MW-20(51)	02/05/19	810.41	25.63	784.78
MW-82(58)	02/05/19	807.38	22.60	784.78
OW-1(39)	02/05/19	805.15	20.49	784.66
MW-14	02/05/19	802.70	18.10	784.60
OW-2(33)	02/05/19	805.54	20.89	784.65
OW-2(53)	02/05/19	805.50	20.86	784.64
OW-3(35)	02/05/19	801.72	17.23	784.49
OW-3(55)	02/05/19	801.66	17.40	784.26
MW-15	02/05/19	792.90	9.10	783.80
OW-4(35)	02/05/19	801.35	17.33	784.02
OW-4(54)	02/05/19	801.33	17.23	784.10
MW-17	02/05/19	784.41	2.90	781.51
MW-25(16.4)	02/05/19	791.93	7.79	784.14
MW-25(32.6)	02/06/19	791.92	7.80	784.12
MW-25(82)	02/06/19	791.93	9.69	782.24
MW-26(17.5)	02/05/19	792.16	10.25	781.91
MW-26(28.8)	02/05/19	792.14	10.18	781.96
MW-26(58.2)	02/05/19	792.17	9.70	782.47
MW-27(18)	02/05/19	785.82	4.27	781.55
OW-5(16)	02/05/19	790.72	8.43	782.29
OW-5(35)	02/05/19	790.76	7.80	782.96
OW-5(44)	02/06/19	790.70	7.52	783.18
OW-6(38)	02/05/19	789.27	8.57	780.70
OW-6(63)	02/05/19	789.27	7.97	781.30

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[1]	Depth to Water (btoc)[2]	Ground Water Elevation
Shallow Overburden Wells Used for Groundwater Elevation Contour Mapping				
MW-1	02/05/19	840.48	39.55	769.91
MW-3	02/05/19	805.45	20.53	784.92
MW-5	02/05/19	807.89	26.90	780.99
MW-6C	02/05/19	810.40	25.60	784.80
MW-9C	02/05/19	808.16	23.40	784.76
MW-12	02/05/19	808.46	23.71	784.75
MW-13	02/05/19	806.67	21.44	785.23
MW-14	02/05/19	802.70	18.10	784.60
MW-16	02/05/19	791.18	9.15	782.03
MW-17	02/05/19	784.41	2.90	781.51
MW-20(35)	02/05/19	810.42	25.62	784.80
MW-21(40.2)	02/05/19	810.33	25.81	784.52
MW-23(39.9)	02/05/19	816.67	31.67	785.00
MW-24(24.9)	02/05/19	804.92	20.35	784.57
MW-25(16.4)	02/05/19	791.93	7.79	784.14
MW-26(17.5)	02/05/19	792.16	10.25	781.91
MW-27(18)	02/05/19	785.82	4.27	781.55
MW-30(41.1)	02/05/19	794.57	20.01	774.56
MW-31(30.9)	02/05/19	781.48	9.30	772.18
MW-53(41)	02/05/19	809.87	24.86	785.01
MW-57(38)	02/05/19	795.51	8.62	786.89
MW-59(29)	02/05/19	799.57	14.55	785.02
MW-60(38)	02/05/19	798.51	13.28	785.23
MW-62(36)	02/05/19	810.71	25.05	785.66
MW-65(32)	02/05/19	809.40	24.59	784.81
MW-67(30)	02/05/19	809.53	24.62	784.91
MW-68(32)	02/05/19	809.46	24.67	784.79
MW-71(33)	02/05/19	809.15	24.25	784.90
MW-72(32)	02/05/19	808.92	24.07	784.85
MW-75(32)	02/05/19	809.39	24.66	784.73
MW-76(30)	02/05/19	809.28	24.36	784.92
MW-77(41)	02/05/19	809.39	24.54	784.85
MW-78(35)	02/05/19	809.30	24.48	784.82
MW-79(30)	02/05/19	809.26	24.43	784.83
MW-81(27)	02/05/19	798.34	14.92	783.42
MW-84(44)	02/05/19	824.91	40.42	784.49
MW-85(39)	02/05/19	796.49	12.05	784.44
MW-89(28)	02/05/19	797.77	12.71	785.06
OW-1(28)	02/05/19	805.18	20.45	784.73
OW-2(33)	02/05/19	805.54	20.89	784.65
OW-3(35)	02/05/19	801.72	17.23	784.49
OW-4(35)	02/05/19	801.35	17.33	784.02
OW-5(16)	02/05/19	790.72	8.43	782.29
OW-6(38)	02/05/19	789.27	8.57	780.70
PM-2	02/05/19	798.45	13.06	785.39
PM-3	02/05/19	808.40	25.23	783.17
ZVI-2(17.5)	02/05/19	791.17	9.27	781.90

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[1]	Depth to Water (btoc)[2]	Ground Water Elevation
Intermediate Overburden Wells Used for Groundwater Elevation Contour Mapping				
MW-9B	02/05/19	808.07	27.15	780.92
MW-15	02/05/19	792.90	9.10	783.80
MW-19(53)	02/05/19	809.56	24.70	784.86
MW-20(51)	02/05/19	810.41	25.63	784.78
MW-24(55.4)	02/05/19	804.94	20.32	784.62
MW-25(45.2)	02/05/19	791.91	8.13	783.78
MW-26(58.2)	02/05/19	792.17	9.70	782.47
MW-27(53.05)	02/05/19	785.84	3.30	782.54
MW-29(82.5)	02/05/19	801.45	25.33	776.12
MW-31(55.5)	02/05/19	781.47	9.61	771.86
MW-52(55)	02/05/19	798.84	14.50	784.34
MW-55(49)	02/05/19	799.24	13.17	786.07
MW-56(50)	02/05/19	797.23	11.39	785.84
MW-82(58)	02/05/19	807.38	22.68	784.70
MW-83(64)	02/05/19	807.67	22.95	784.72
MW-84(65)	02/05/19	824.56	40.29	784.27
OW-1(39)	02/05/19	805.15	20.49	784.66
OW-2(53)	02/05/19	805.50	20.86	784.64
OW-3(55)	02/05/19	801.66	17.40	784.26
OW-4(54)	02/05/19	801.33	17.23	784.10
OW-5(35)	02/05/19	790.76	7.80	782.96
OW-6(63)	02/05/19	789.27	7.97	781.30
ZVI-2(32.5)	02/05/19	791.19	9.19	782.00

NM - Not Measured

[1] Top of casing elevation established using NAVD 88 datum (US survey feet)

[2] 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)	02/07/19	6.23	1.721	13.08	0.16	-104.8
MW-59(46)	02/06/19	7.16	1.194	13.41	0.11	-175.5
MW-81(27)	02/07/19	6.06	0.963	13.60	0.23	-101.1
MW-68(32)	02/07/19	7.12	3.138	16.6	3.29	-161
MW-72(32)	02/07/19	6.72	3.489	16.8	3.64	-156
MW-6C	02/06/19	6.77	0.738	14.7	0.66	-83
MW-20(51)	02/07/19	7.18	2.424	9.8	0.36	-140
MW-82(58)	02/06/19	6.88	1.814	13.38	0.15	-149.8
OW-1(39)	02/06/19	7.18	1.537	13.53	0.15	-163.5
MW-14	02/06/19	7.01	1.643	12.68	1.11	-150.0
OW-2(33)	02/06/19	6.92	0.889	13.3	0.21	-142
OW-2(53)	02/06/19	7.00	0.694	9.2	0.49	-137
OW-3(35)	02/06/19	7.10	1.899	13.44	0.05	-179.4
OW-3(55)	02/06/19	6.83	2.102	13.01	5.66	127.8
MW-15	02/06/19	6.54	1.235	11.8	0.30	-109
OW-4(35)	02/05/19	6.88	3.341	11.1	0.19	-132
OW-4(54)	02/05/19	7.14	1.901	11.6	0.26	-96
MW-17	02/05/19	6.99	0.960	7.29	0.17	-78.4
MW-25(16.4)	02/06/19	6.84	0.789	11.9	0.13	-122
MW-25(32.6)	02/06/19	6.87	0.644	12.6	0.39	-132
MW-25(82)	02/06/19	7.06	0.699	11.8	0.35	-113
MW-26(17.5)	02/05/19	7.07	1.575	10.2	0.17	-113
MW-26(28.8)	02/05/19	7.03	2.230	12.5	0.14	-113
MW-26(58.2)	02/05/19	7.37	0.968	11.8	0.27	141
MW-27(18)	02/05/19	7.14	0.879	9.49	0.12	-119.7
OW-5(16)	02/06/19	6.78	1.825	11.60	0.18	-136.1
OW-5(35)	02/05/19	6.92	0.881	12.42	0.86	-90.5
OW-5(44)	02/06/19	6.45	3.137	11.89	0.21	-125.2
OW-6(38)	02/05/19	7.06	0.932	12.38	1.97	-104.5
OW-6(63)	02/05/19	6.79	2.164	11.99	0.19	-115.0

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(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-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**
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-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**
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-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-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
	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

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
	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(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-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(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
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
	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(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
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-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(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(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**

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-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(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(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-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
	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(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(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-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(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

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

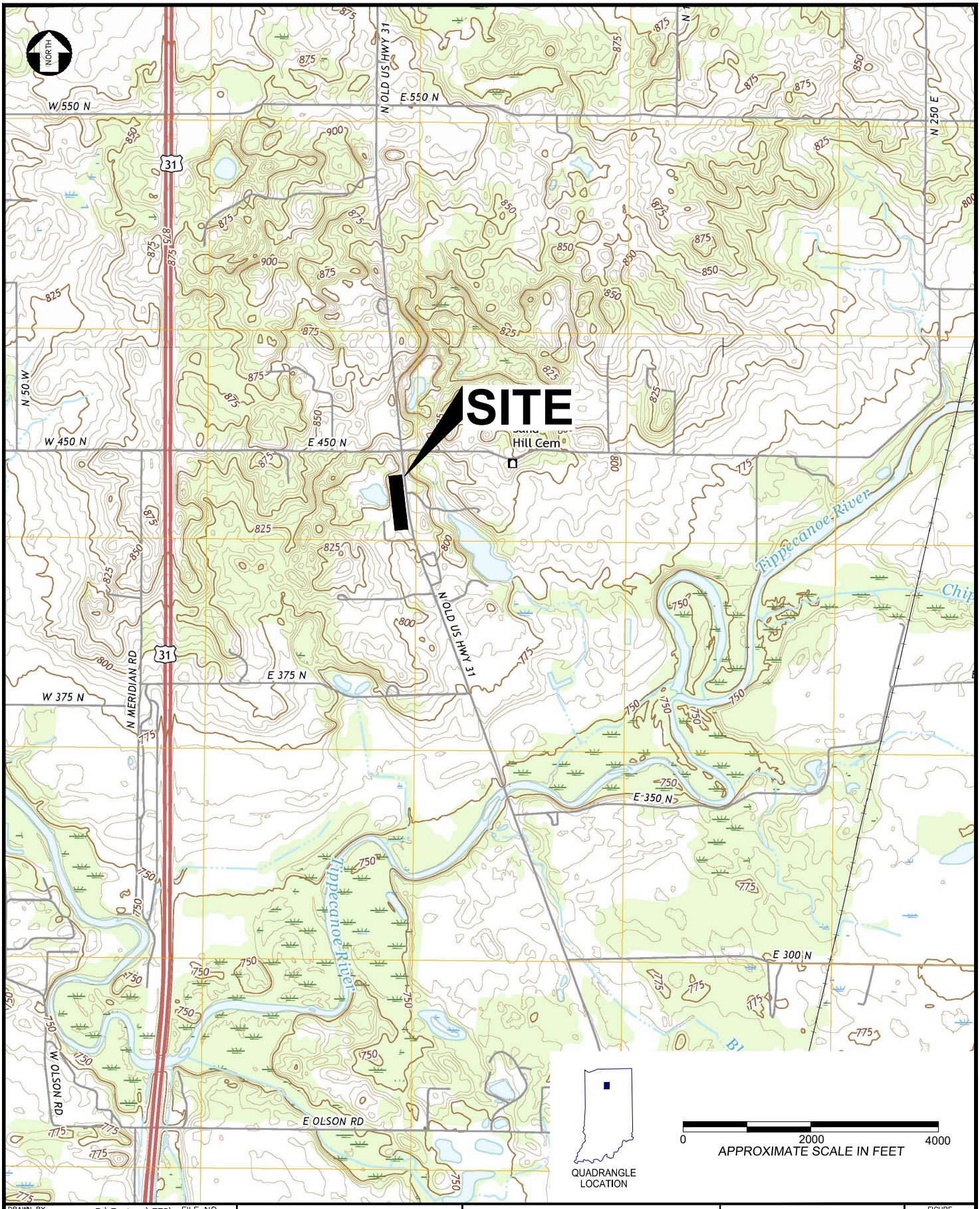
Table 4
Summary of Dissolved Gases - Semi-Annual Treatment Area Stability Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

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-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
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-72(32)	*10/25/18*	*7,400*	*49*	*0.52*
	MW-72(32)	2/7/19	10,000	40	0.27
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

Notes: *Italic text* is baseline data
U - Analyzed but not detected above the MDL
NA - Not Analyzed
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	wood.	SITE LOCATION MAP
APPROVED BY: PJS	DATE: 07/24/2019			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-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 MW-45 MW-21 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)

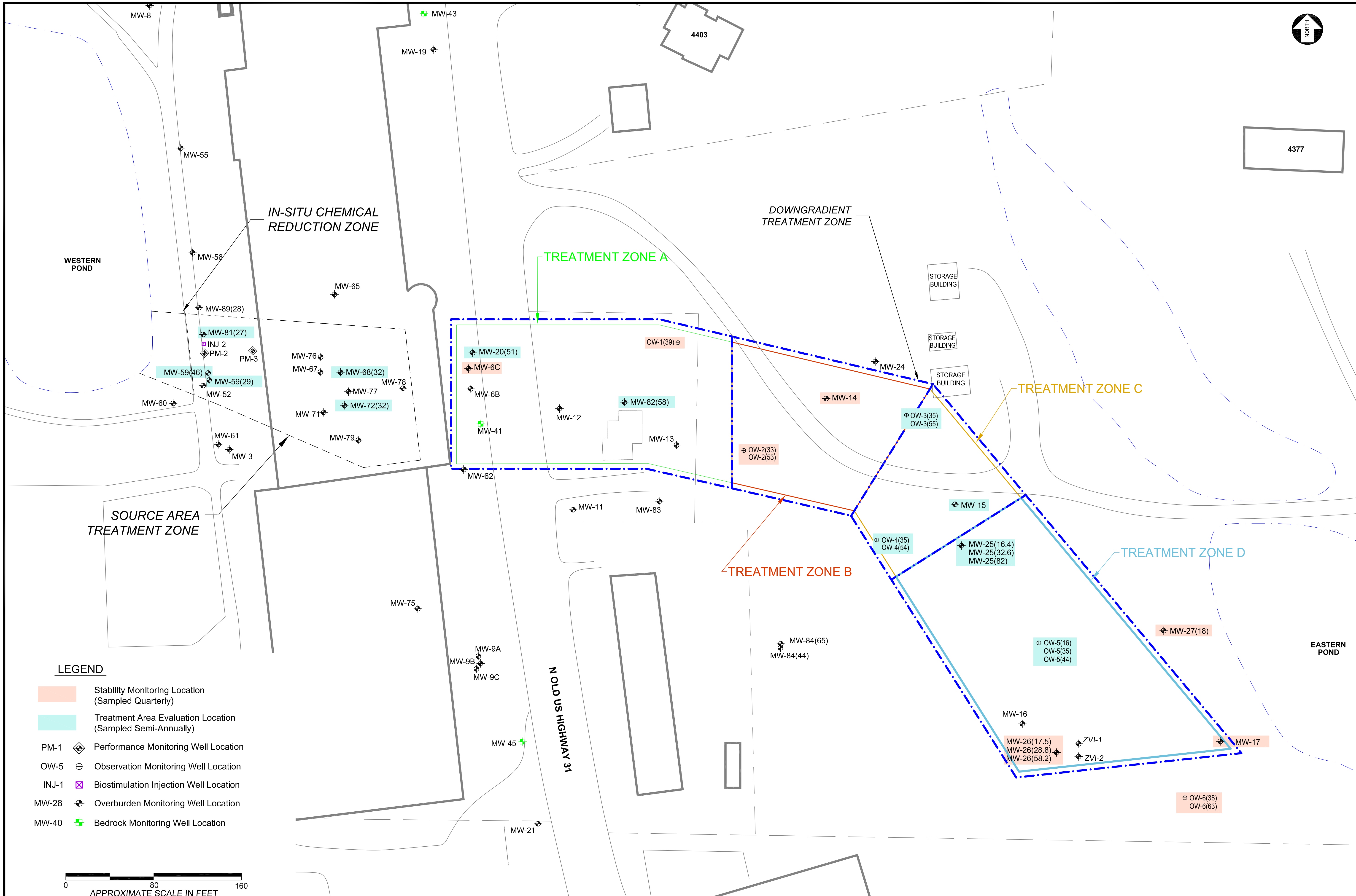
Note:
Grayed well locations were abandoned in 2014.
(MW-80, MW-81(45), INJ-1, INJ-3, and PM-1)

0 80 160
APPROXIMATE SCALE IN FEET

NORTH

DRAWN BY	RLB
APPROVED BY	PJS
PROJECT NO.	3359 15 1040
FILE NO.	P:\Textron\TFS\Drawings\PM 2017 Site Plan.dwg
DATE	07/24/2019
SCALE	SEE ABOVE

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


IN-SITU CHEMICAL REDUCTION ZONE
SOURCE AREA TREATMENT ZONE
DOWNGRADIENT 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
NORTH
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-77
MW-52
MW-72(32)
MW-60
MW-71
MW-61
MW-79
MW-3
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-62
MW-11
MW-83
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)
MW-84(65)
MW-84(44)
OW-5(16)
OW-5(35)
OW-5(44)
MW-75
MW-9A
MW-9B
MW-9C
MW-45
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)
MW-21
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

GROUNDWATER STABILITY ASSESSMENT
MONITORING WELL LOCATIONS

FIGURE 3

SHEET 1 of 1

wood.

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

DRAWN BY RLB
APPROVED BY PJS
FILE NO. P:\Textron\TFS\Drawings\Stability MWs.dwg
DATE 07/24/2019
SOURCE Wells surveyed by Territorial Engineering; Fulton County, IN GIS, 2005.
SCALE SEE ABOVE
PROJECT NO. 3359 15 1040

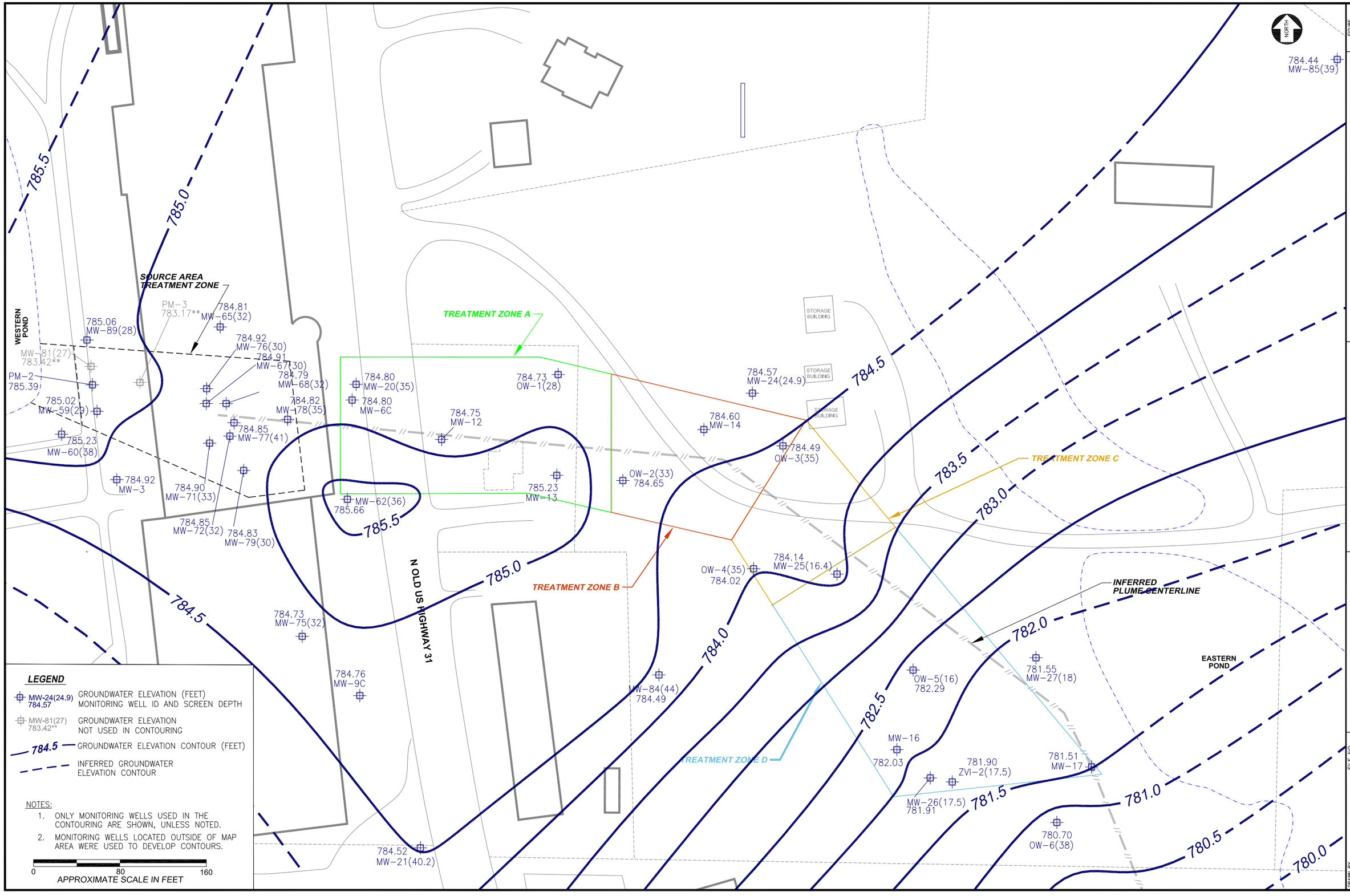
GROUNDWATER CONTOUR MAP
SHALLOW OVERBURDEN WELLS
SOURCE TREATMENT AREA
5 February 2019

FIGURE 4

SHEET 1 of 1

NORTH

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA



LEGEND

- MW-24(24.9) 784.57 — GROUNDWATER ELEVATION (FEET) MONITORING WELL ID AND SCREEN DEPTH
- MW-81(27) 783.42** — GROUNDWATER ELEVATION NOT USED IN CONTOURING
- 784.5 — GROUNDWATER ELEVATION CONTOUR (FEET)
- INFERRED GROUNDWATER ELEVATION CONTOUR

NOTES:

1. ONLY MONITORING WELLS USED IN THE CONTOURING ARE SHOWN, UNLESS NOTED.
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	07/24/2019
SOURCE	Wells surveyed by Territorial Engineering; Fulton County, IN GIS, 2005.
SCALE	SEE ABOVE

GROUNDWATER CONTOUR MAP
INTERMEDIATE OVERBURDEN WELLS
SOURCE TREATMENT AREA
5 February 2019

FIGURE 5

SHEET 1 of 1

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

wood.

DRAWN BY	FILE NO.
RLB	P:\Textron\TFS\Drawings\GW Contours 2018 RA.dwg
APPROVED BY	DATE
PJS	07/24/2019
SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.	SCALE
PROJECT NO.	SEE ABOVE
3359 15 1040	

NORTH

MW-19(53) 784.86

MW-55(49) 786.07

786.0

785.5

785.0

MW-56(50) 785.84

SOURCE AREA TREATMENT ZONE

WESTERN POND

TREATMENT ZONE A

MW-20(51) 784.78

OW-1(39) 784.66

MW-52(55) 784.24

MW-82(58) 784.70

784.62 MW-24(55.4)

STORAGE BUILDING

STORAGE BUILDING

STORAGE BUILDING

OW-3(55) 784.26

TREATMENT ZONE C

784.64 OW-2(53)

784.5

784.72 MW-83(64)

MW-15 783.80

N OLD US HIGHWAY 31

TREATMENT ZONE B

OW-4(54) 784.10

783.78 MW-25(45.2)

INFERRED PLUME CENTERLINE

784.0

783.5

MW-84(65) 784.27

782.96 OW-5(35)

782.54 MW-27(53.05)

EASTERN POND

783.0

782.5

782.0

781.5

781.0

780.5

780.0

780.92 MW-9B

TREATMENT ZONE D

MW-26(58.2) 782.47

ZVI-2(32.5) 782.00

781.30 OW-6(63)

LEGEND

MW-20(51) 784.08 — 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

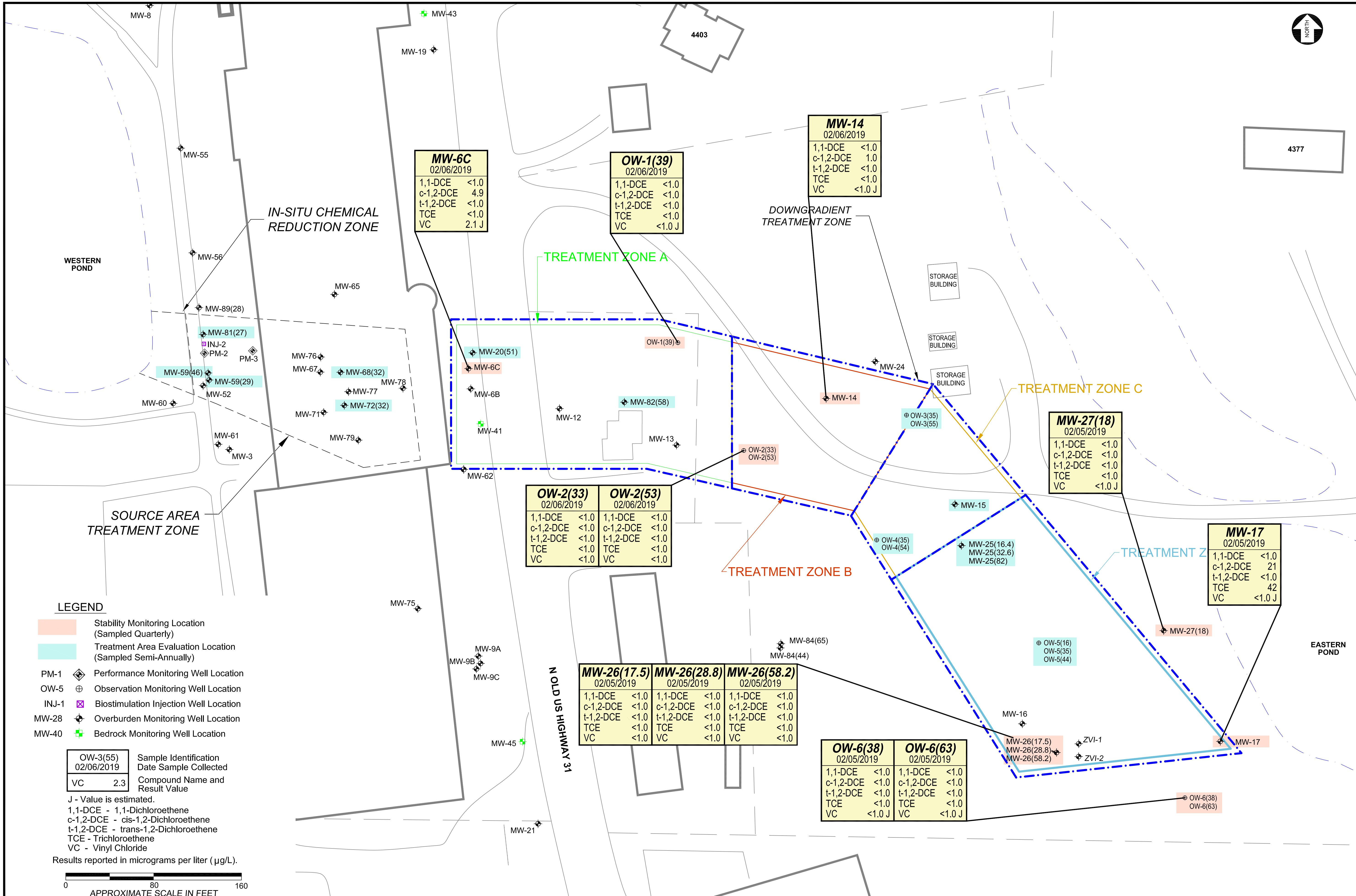


FIGURE 6

SHEET 1 of 1

QUARTERLY STABILITY MONITORING
VOLATILE ORGANIC COMPOUNDS

wood.

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

FILE NO. P:\Textron\TFS\Drawings\Stability MWs.dwg

DRAWN BY RLB | APPROVED BY PJS | DATE 07/24/2019

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

PROJECT NO. 3359 15 1040 | SCALE SEE ABOVE

SEMI-ANNUAL TREATMENT AREA STABILITY MONITORING VOLATILE ORGANIC COMPOUNDS

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA

FIGURE 7
SHEET 1 of 1

NORTH

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-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(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-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-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-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-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

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

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-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

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-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

IN-SITU CHEMICAL REDUCTION ZONE

SOURCE AREA TREATMENT ZONE

DOWNGRADIENT 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

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-77 MW-59(46) MW-59(29) MW-52 MW-60 MW-71 MW-72(32) 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-14 MW-24 OW-3(35) OW-3(55) MW-15 MW-25(16.4) MW-25(32.6) MW-25(82) MW-11 MW-83 OW-4(35) OW-4(54) MW-75 MW-9A MW-9B MW-9C MW-84(65) MW-84(44) 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-45 MW-21

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

DRAWN BY: RLB
APPROVED BY: PJS
PROJECT NO. 3359 15 1040
P:\Textron\TFS\ Drawings\Stability MWs.dwg
FILE NO.
DATE 08/01/2019
SCALE SEE ABOVE

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

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FIELD FORMS

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW-GW-4 (35) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: C.S | Date: 2/5/15 | Start Time: 1545 | Weather: overcast (1)

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.36 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 35 | Borehole 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: 1550 | 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)
1555	6.86	3.414	11.0	12	300	17.38	0.02	0.57	-121
1600	6.87	3.393	11.0	8	300	17.38	0.02	0.25	-129
1605	6.87	3.351	11.1	6	300	17.39	0.03	0.20	-131
1610	6.87	3.350	11.1	5	300	17.39	0.03	0.20	-133
1615	6.85	3.348	11.2	4	300	17.39	0.03	0.19	-130
1620	6.86	3.345	11.2	3	300	17.40	0.04	0.19	-131
1625	6.88	3.341	11.1	2	300	17.40	0.04	0.19	-132

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1625	6.88	3.341	11.1	2	300	17.40	0.04	0.19	-132

Comments: TD = 33.74 after sampling
Flow @ 300 for sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 246 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0, 10 NTUs

Sample Name: (DUP) ATR-GW-4(35)-602018 (~~ATR-MW~~) | Time:

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	G1	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~~ GW-4 (54) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GS | Date: 2/5/19 | Start Time: 1440 | Weather: overcast 30

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.29 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 54 | Borehole Diameter: 2" | Approx. Pump Depth: 52 Feet
Screen Interval: top ~~49~~ 53 49 bottom 54 Feet

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

Pump Started: 1500 | 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)
1505	7.16	1.882	11.3	80	250	17.29	0	0.40	-82
1510	7.13	1.893	11.3	5.6	250	17.29	0	0.34	-86
1515	7.14	1.896	11.4	4	250	17.29	0	0.28	-90
1520	7.13	1.900	11.5	4	250	17.29	0	0.27	-92
1525	7.14	1.901	11.5	0	250	17.29	0	0.26	-95
1530	7.14	1.901	11.6	0	250	17.29	0	0.26	-96

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1530	7.14	1.901	11.6	0	250	17.29	0	0.26	-96

Comments: TD = 53.75 @ Sample | Flow Rate @ Sample = 200 ml/min
ATR-EB001-020519 @ 1540

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 246 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 246 NTUs

Sample Name (MS) ATR-GW-4 (54)-020519 | ~~ATR-MW~~ | Time 1530

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-MW-26 (17.5) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GS | Date: 9/5/19 | Start Time: 1335 | Weather:

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 10.25 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 17.5 | Borehole Diameter: 2 | 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: 1346 | 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)
1345	7.10	1.608	10.1	100	250	10.25	0	0.14	-100
1350	7.08	1.589	9.8	29	250	10.25	0	0.15	-109
1355	7.08	1.581	10.1	25	250	10.26	0.01	0.16	-113
1400	7.09	1.583	10.1	22	250	10.26	0.01	0.15	-115
1405	7.09	1.572	10.1	19	250	10.26	0.01	0.16	-113
1410	7.09	1.573	10.2	15	250	10.26	0.01	0.17	-112
1415	7.07	1.574	10.2	8	250	10.26	0.01	0.17	-113
1420	7.07	1.575	10.2	6	250	10.26	0.01	0.17	-113

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

Final: 1.575

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1420	7.07	~~1.575~~ (1.573)	10.2	6	250	10.26	0.01	0.17	-113

Comments: TD @ sampling - 17.52 S
Flow rate @ 200 when sampling

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 240 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0, 100 NTUs

Sample Name: ATR-MW-26 (17.5) - 6020518 | Time: 1420

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	6		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 (26.8) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GS | Date: 2/5/19 | Start Time: 1245 | Weather: overcast

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 10.18 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 26.8 | Borehole Diameter: 2 | Approx. Pump Depth: 24 Feet
Screen Interval: top 22 bottom 27 Feet

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

Pump Started: 1258 | 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)
1255	7.01	2.089	12.4	42	300	10.18	0	0.25	-87
1300	7.02	2.137	12.5	35	300	10.18	0	0.19	-95
1305	7.03	2.207	12.5	29	300	10.18	0	0.15	-103
1310	7.03	2.232	12.5	16	300	10.18	0	0.14	-107
1315	7.03	2.235	12.4	7	300	10.18	0	0.14	-108
1320	7.03	2.231	12.5	5	300	10.18	0	0.14	-111
1325	7.03	2.230	12.5	4	300	10.18	0	0.14	-113
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1325	7.03	2.230	12.5	4	300	10.18	0	0.14	-113

Comments: TD @ sample = 26.75 Flow rate @ 300 during sampling

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☐ | ORP Calibration 24 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-26(26.8)-6020519 | Time: 1325

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 20 (58.7) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: LS | Date: 2/5/19 | Start Time: 1208 | Weather: Sunny 30

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 9.70 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 58.2 | Borehole Diameter: 2 | Approx. Pump Depth: 55 Feet
Screen Interval: top 53 bottom 58 Feet

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

Pump Started: 1210 | 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)
1215	7.39	0.941	11.5	1.8	300	9.70	0	0.42	-137
1220	7.37	0.954	11.6	2.0	300	9.70	0	0.33	-138
1225	7.36	0.960	11.7	2.0	300	9.70	0	0.30	-139
1230	7.35	0.966	11.7	2	300	9.70	0	0.28	~~-140~~ 140
1235	7.37	0.967	11.8	0	300	9.70	0	0.27	141
1240	7.37	0.968	11.8	0	300	9.70	0	0.27	141

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1240	7.37	0.968	11.8	0	300	9.70	0	0.27	141

Comments: TD after sample - 58.7
Flow rate @ 300 ml/min when sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 240 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 100 NTUs

Sample Name: ATR-MW20(58.7)-020519 | Time: 1240

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	~~G~~	~~HCL~~ 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-3(35)-020519
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel CC Date 2/5/19 Start Time 1550 Weather Cloudy 34°F

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 7.61 Depth to Product ____ Product Thickness ____
Total Casing Depth 35.44 Borehole Diameter ____ Approx. Pump Depth 31 Feet
Screen Interval top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started 1555 Pump Stopped 1637 Total ~~Gallons~~ 12 Liters

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)
1600	7.03	0.818	11.85	41.55	300	7.61	0.00	1.03	-103.1
1605	6.96	0.825	12.05	15.34		7.61	0.00	1.15	-93.9
1610	6.92	0.836	12.18	8.24		7.61	0.00	1.23	-85.7
1615	6.91	0.840	12.34	29.64		7.61	0.00	1.15	-84.9
1620	6.91	0.841	12.47	3.47		7.61	0.00	0.95	-88.1
1625	6.92	0.844	12.39	4.11		7.61	0.00	0.93	-89.7
1630	6.92	0.850	12.47	2.17		7.61	0.00	0.81	-90.1
1635	6.92	0.851	12.42	2.07		7.61	0.00	0.86	-90.5

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1635	6.92	0.861	12.42	2.07	300	7.61	0.00	0.86	-90.5

Comments: Water is effervescent in Nature must Tap Sonde to clear Bubbles before readings

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm Turbidity Cal. Solution 0 & 100 NTUs

Sample Name ATR-MW-3(35)-020519 Time 1635

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-27(18)-G020519 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GLT | Date: 2/5/19 | Start Time: 1448 | Weather: Cloudy 35°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 4.17 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 20.20 | Borehole Diameter: ____ | Approx. Pump Depth: 15 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1445 | Pump Stopped: 1530 | 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	7.23	0.855	8.46	4.09	300	4.17	0.00	0.34	-55.4
1455	7.15	0.862	9.05	3.09		4.17	0.00	0.18	-65.8
1500	7.12	0.866	9.33	3.98		4.17	0.00	0.13	-78.5
1505	7.11	0.873	9.21	5.56		4.17	0.00	0.12	-93.9
1510	7.13	0.873	9.24	9.31		4.17	0.00	0.11	-107.5
1515	7.15	0.873	9.32	9.94		4.17	0.00	0.11	-113.0
1520	7.14	0.878	9.41	9.88		4.17	0.00	0.10	-116.9
1525	7.14	0.879	9.46	9.99		4.17	0.00	0.12	-119.7
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1525	7.14	0.879	9.46	9.99	300	4.17	0.00	0.12	-119.7

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-27(18)-G020519 | Time: 1525

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	9/G		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: ATR-MW-27(18)-G020519MS | Blind Dup: ____ | Blind Dup Name: ____ | TB: ____

ATR-MW-27(18)-G020519MSD

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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-GW-6(38)-G020519
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GCR | Date: 2/5/19 | Start Time: _____ | Weather: Cloudy 34°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 8.52 | Depth to Product: _____ | Product Thickness: _____
Total Casing Depth: 37.85 | Borehole Diameter: _____ | Approx. Pump Depth: 36 Feet
Screen Interval: top _____ bottom _____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1345 | Pump Stopped: 1424 | Total Gallons: 14 liters

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)
1350	7.04	0.908	12.39	3.41	400	8.54	.02	0.32	-124.7
1355	7.05	0.917	12.35	8.37		8.55	.03	0.97	-121.2
1400	7.06	0.923	12.34	0.30		8.54	.02	1.40	-115.0
1405	7.06	0.925	12.32	0.05		8.56	.04	1.56	-112.1
1410	7.06	0.930	12.37	0.04		8.57	.05	1.77	-107.1
1415	7.06	0.930	12.35	2.57		8.53	.03	1.89	-105.6
1420	7.06	0.932	12.35	1.18		8.54	.02	1.97	-104.5

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1420	7.06	0.932	12.35	1.18	400	8.54	.02	1.97	-104.5

Comments: _____

Calibration: pH Calibration Buffers: 4 ☑ | 7 ☑ | 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 10 NTUs

Sample Name: ATR-GW-6(38)-G020519 | Time: 1420

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 ATR-GW-6(38)-G020519R | 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-6-020519 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: CLD | Date: 2/5/19 | Start Time: 1245 | Weather: Cloudy 32°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 8.10 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 182.60 | Borehole Diameter: 2" | Approx. Pump Depth: 58.5 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1255 | Pump Stopped: 1328 | Total Gallons: 6 Liters

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)
1302	6.72	2.089	11.87	21.99	207	8.09	.03	0.73	-97.8
1305	6.75	2.152	11.89	9.04		8.05	.03	0.24	-105.0
1310	6.77	2.158	11.97	8.44		8.07	.01	0.20	-110.0
1315	6.77	2.162	11.94	3.35		8.09	.03	0.20	-111.3
1320	6.79	2.165	11.96	4.69		8.08	.02	0.21	-113.6
1325	6.79	2.164	11.99	4.70		8.09	.03	0.19	-115.0
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1325	6.79	2.164	11.99	4.70	207	8.09	.03	0.19	-115.0

Comments: Water is very effervescent

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ~~ATR-MW~~ OW-6 (DUP) -020519 | Time: 1325

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-G020519 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GLD | Date: 2/5/19 | Start Time: 1135 | Weather: Cloudy 32°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 3.20 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 42.39 | Borehole Diameter: 2" | Approx. Pump Depth: 37 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1155 | Pump Stopped: 1227 | Total ~~Gallons~~: 9 Liters (0.316 GAL)

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	7.54	0.933	8.27	4.14	300	3.29	.09	0.22	29.9
1205	7.18	0.948	7.65	5.24		3.22	.02	0.21	-41.1
1210	7.06	0.953	7.43	3.90		3.22	.02	0.22	-58.4
1215	7.02	0.956	7.19	3.25		3.22	.02	0.19	-68.6
1220	6.99	0.960	7.33	2.80		3.26	.06	0.17	-75.7
1225	6.99	0.960	7.29	2.77		3.24	.04	0.17	-78.4
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1225	6.99	0.960	7.29	2.77	300	3.24	.04	0.17	-78.4

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-17-G020519 | Time: 1225

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3G	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-6C R
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel CS Date 2/9/19 Start Time _____ Weather _____

MEASUREMENT SUMMARY:
Measuring Point NA Depth to Water NA Depth to Product NA Product Thickness NA
Total Casing Depth _____ Borehole 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-6C-20190219R Time 1420

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☐	G	1	Dissolved Gasses ☒	G	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-6C (Use: Well name)
Project Number 3359-15-1040
Sampling Personnel ______ Date 2/6/19 Start Time 1350 Weather ______

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 25.61 Depth to Product NA Product Thickness NA
Total Casing Depth 38.25 Borehole Diameter 2" Approx. Pump Depth 34 Feet
Screen Interval top ______ bottom ______ Feet

SAMPLING SUMMARY:
Sampling Method: Grab [ ] Composite [ ] Grundfos [ ] Bladder Pump [X] Peristaltic Pump [ ] Bailer [ ]
Pump Started 1355 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)
1400	6.73	0.747	14.5	4	300	25.61	0	0.41	-67
1405	6.76	0.735	14.7	5	300	25.61	0	0.52	-74
1410	6.78	0.734	14.7	4	300	25.61	0	0.63	-78
1415	6.78	0.737	14.7	3	300	25.61	0	0.65	-81
1420	6.77	0.738	14.7	3	300	25.61	0	0.66	-83
Stabilization Criteria:	±3%		±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1420	6.77	0.738	14.7	3	300	25.61	0	0.66	-83

Comments: TD = 38.25 after sampling ATR-MW-6C-GD020619R taken

Calibration: pH Calibration Buffers: 4 [✓] 7 [✓] 10 [✓] ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm Turbidity Cal. Solution 0, 100 NTUs

Sample Name ATR-MW-6C-GD020618 Time 1420

Analyses (check)		Bottle #/Type	Preservative			Bottle #/Type	Preservative
VOCs	[✓]	G	1	Dissolved Gasses	[X]	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~~ OW-2 (33)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GS | Date: 2/6/19 | Start Time: 1240 | Weather: overcast 37

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 20.91 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 33 | Borehole Diameter: 2" | Approx. Pump Depth: 28.5 Feet
Screen Interval: top 23 bottom 33 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	6.79	0.982	13.3	37	300	20.93	0.02	0.36	-114
1255	6.86	0.989	13.5	25	300	20.94	0.03	0.23	-128
1300	6.90	0.985	13.3	17	300	20.94	0.03	0.17	-137
1305	6.91	0.892	13.4	7	300	20.94	0.03	0.18	-139
1310	6.91	0.891	13.4	5	300	20.95	0.04	0.21	-141
1315	6.92	0.889	13.3	5	300	20.95	0.04	0.21	-142
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1315	6.92	0.889	13.3	5	300	20.95	0.04	0.21	-142

Comments: Flow @ 300 during sampling
TD = 32.65 after sampling

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

Sample Name: ATR-~~MW~~ OW-2(33)-602019 | Time: 1315

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	6v	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~~-2(53) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GS | Date: 2/6/19 | Start Time: 1200 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 20.81 | Depth to Product: NA | Product Thickness: NM
Total Casing Depth: 54 | Borehole Diameter: 2" | Approx. Pump Depth: 50 Feet
Screen Interval: top 49 bottom 54 Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☒ Peristaltic Pump ☐ Bailer ☐
Pump Started: 1205 | 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)
1210	6.95	0.748	9.7	20	250	20.81	0.0	3.6	-116
1215	6.97	0.097	8.9	6	250	20.85	0.04	0.77	-80
1220	6.98	0.693	9.0	5	250	20.88	0.07	0.51	-134
1225	6.99	0.694	9.1	4	250	20.90	0.09	0.50	-136
1230	7.00	0.694	9.2	3	250	20.91	0.10	0.49	-137

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1230	7.00	0.694	9.2	3	250	20.91	0.10	0.49	-137

Comments: TD = 52.69 after Sampling. ~~Replicate ATR-DW-2(53)~~ (DUP) @ 0
Flow @ 200 ml/min when Sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0.100 NTUs

Sample Name: ~~ATR-MW~~ ATR-DW-2(53)-20190206 | Time: 1230

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 _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW-15
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GS | Date: 2/6/19 | Start Time: 1105 | Weather: overcast 37

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 9.09 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 54.05 | Borehole Diameter: 2" | Approx. Pump Depth: 50 Feet
Screen Interval: top 49 bottom 55 Feet

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

Pump Started: 1105 | 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)
1110	6.59	1.078	11.0	27	250	9.10	0.01	1.45	-87
1115	6.47	1.208	11.6	20	250	9.10	0.01	0.36	-100
1120	6.53	1.226	11.7	8	250	9.10	0.01	0.32	-105
1125	6.54	1.234	11.8	6	250	9.10	0.01	0.31	-108
1130	6.54	1.235	11.8	6	250	9.10	0.01	0.30	-109
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1130	6.54	1.235	11.8	6	250	9.10	0.01	0.30	-109

Comments: TD = 54.25 after Sampling
Flow Rate 250 ml/min when Sampling

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0, 10 NTUs

Sample Name: ATR-MW-15-602061 9 | Time: 1130

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	4	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-25(16.4)
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel GS Date 2/6/19 Start Time _____ Weather _____

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water ~~7.80~~ (FW) 2/16 Depth to Product NA Product Thickness NA
Total Casing Depth 140 Borehole Diameter 2 Approx. Pump Depth 13 Feet
Screen Interval top 11 bottom 160 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	6.78	0.784	11.7	10	200	7.80	0	0.17	-114
1025	6.79	0.785	11.8	6	200	7.80	0	0.16	-117
1030	6.82	0.788	11.9	5	200	7.80	0	0.13	-120
1035	6.83	0.788	11.9	4	200	7.80	0	0.13	-121
1040	6.84	0.789	11.9	4	900	7.80	0	0.13	-122
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1040	6.84	0.789	11.9	4	900	7.80	0	0.13	-122

Comments: TD = 15.72 after sampling

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm Turbidity Cal. Solution 0, 1ds NTUs

Sample Name ATR-MW-25(16.4)-20190619 Time 1040

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-MW-25 (32.6)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GS | Date: 02/04/19 | Start Time: 0930 | Weather: overcast 37

MEASUREMENT SUMMARY:

Measuring Point: TOC | Depth to Water: 7.80 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 32.6 | Borehole Diameter: 2" | Approx. Pump Depth: 28 Feet
Screen Interval: top 27 bottom 32 Feet

SAMPLING SUMMARY:

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

Pump Started: 0935 | 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)
0940	6.67	0.630	12.5	25	300	7.82	0.02	0.37	-112
0945	6.83	0.633	12.6	11	300	7.82	0.02	0.34	-125
0950	6.87	0.640	12.6	8	300	7.82	0.02	0.37	-129
0955	6.87	0.643	12.6	5	300	7.82	0.02	0.38	-130
1000	6.87	0.644	12.6	4	300	7.82	0.02	0.39	-132
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1000	6.87	0.644	12.6	4	300	7.82	0.02	0.39	-132

Comments: TD = 31.90 after sampling
Flow Rate @ 300 while Sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0, 100 NTUs

Sample Name: ATR-MW-25(32.6)-G020619 | Time: 1000

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	6	61	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-25(82) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: CS | Date: 2/6/19 | Start Time: 0835 | Weather: Rain 37

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 9.69 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 82 | Borehole Diameter: 2" | Approx. Pump Depth: 78 Feet
Screen Interval: top 77 bottom 82 Feet

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

Pump Started: 0845 | 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)
0850	6.97	0.702	11.6	4.9	300	9.71	0.02	0.61	-39
0855	7.02	0.701	11.8	3.6	300	9.71	0.02	0.49	-91
0900	7.03	0.702	11.8	3.4	300	9.73	0.04	0.38	-109
0905	7.05	0.701	11.8	2.6	300	9.73	0.04	0.36	-111
0910	7.06	0.700	11.8	3.5	300	9.73	0.04	0.35	-112
0915	7.06	0.699	11.8	3.5	300	9.73	0.04	0.35	-113
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0915	7.06	0.699	11.8	3.5	300	9.73	0.04	0.35	-113

Comments: TD = 81.39 after sampling
Flow rate @ 200 when sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration: 237 mV
SC Reference Solution: 1.413 mS/cm | Turbidity Cal. Solution: 0, 100 NTUs

Sample Name: ATR-MW-25(82)-G0206 19 | Time: 0915

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☒	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-59(46)-020619 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GWD | Date: 2/6/19 | Start Time: 1355 | Weather: Cloudy 37°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 14.18 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 45.49 | Borehole Diameter: 2" | Approx. Pump Depth: 41.5 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1600 | Pump Stopped: 1641 | Total ~~Gallons~~: 14 Liters

Time (24-hr)	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft) GWD 0.00	DO (mg/L)	ORP (mV)
1605	7.02	1.180	13.04	32.06	400	14.18	~~14.18~~	0.33	-153.3
1610	7.07	1.189	13.25	7.71		14.18	0.00	0.14	-160.4
1615	7.12	1.194	13.32	4.87		14.18	0.00	0.10	-168.1
1620	7.13	1.191	13.35	0.62		14.18	0.00	0.10	-170.9
1625	7.15	1.186	13.356	0.32		14.18	0.00	0.10	-173.9
1630	7.16	1.191	13.39	5.99		14.18	0.00	0.11	-175.1
1635	7.16	1.194	13.41	5.55		14.18	0.00	0.11	-175.5
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1635	7.16	1.194	13.41	5.55	400	14.18	0.00	0.11	-175.5

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☐ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-59(46)-020619 | Time: 1635

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: ATR-MW-59(46)-020619MS | Blind Dup: 1635 | Blind Dup Name: ____ | TB: ____

ATR-MW-59(46)-020619MSD Time 1635

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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)-G020619 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: G-V-D | Date: 2/6/19 | Start Time: 1458 | Weather: Cloudy 38°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 22.64 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 58.31 | Borehole Diameter: ____ | Approx. Pump Depth: 55 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1500 | Pump Stopped: 1542 | Total ~~Gallons~~ Liters: 8

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)
1505	7.01	1.687	13.28	32.74	200	22.64	0.00	0.52	-148.4
1510	6.95	1.723	13.41	38.32		22.64	0.00	0.26	-148.4
1515	6.94	1.739	13.65	24.61		22.64	0.00	0.22	-149.5
1520	6.94	1.756	13.60	17.64		22.64	0.00	0.20	-150.5
1525	6.94	1.769	13.72	12.46		22.64	0.00	0.16	-151.0
1530	6.88	1.792	13.58	11.16		22.64	0.00	0.14	-151.1
1535	6.88	1.805	13.42	11.86		22.64	0.00	0.16	-149.9
1540	6.88	1.814	13.38	11.76		22.64	0.00	0.15	-149.8
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1540	6.88	1.814	13.38	11.76	200	22.64	0.00	0.15	-149.8

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 224 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-82(58)-G020619 | Time: 1540

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~~ OW-1(35)-60206019
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GLO | Date: 2/6/19 | Start Time: 1350 | Weather: Cloudy 37°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 20.41 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 38.64 | Borehole Diameter: 2" | Approx. Pump Depth: 35.5 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1400 | Pump Stopped: 1442 | Total ~~Gallons~~: 8 Liters

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)
1405	7.16	1.599	13.19	11.67	200	20.41	0.00	0.38	-129.7
1410	7.14	1.583	13.30	15.07		20.41	0.00	0.23	-145.7
1415	7.15	1.574	13.35	14.48		20.41	0.00	0.21	-148.7
1420	7.16	1.552	13.37	15.13		20.41	0.00	0.17	-151.5
1425	7.17	1.547	13.44	13.94		20.41	0.00	0.16	-159.4
1430	7.17	1.539	13.43	11.91		20.41	0.00	0.14	-161.1
1435	7.18	1.535	13.47	9.91		20.41	0.00	0.14	-162.6
1440	7.18	1.537	13.53	9.46		20.41	0.00	0.15	-163.5
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1440	7.18	1.537	13.53	9.46	200	20.41	0.00	0.15	-163.5

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-~~MW~~ OW-1(35)-60206019 | Time: 1440

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-14-G020619 (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: GLO | Date: 2/6/19 | Start Time: 1235 | Weather: Cloudy 37°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 18.06 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 45.78 | Borehole Diameter: 2" | Approx. Pump Depth: 42 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Baller ☐
Pump Started: 1240 | Pump Stopped: 1327 | Total ~~Gallons~~: 13.5 Liters

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	7.09	1.622	12.96	55.60	300	18.09	.03	0.49	-148.6
1250	7.06	1.627	13.10	53.26		18.09	.03	0.46	-151.1
1255	7.03	1.602	12.89	48.36		18.09	.03	1.81	-151.0
1300	7.02	1.615	12.57	43.08		18.09	.03	1.06	-151.0
1305	7.01	1.618	12.57	54.17		18.09	.03	1.13	-150.8
1310	7.01	1.622	12.52	60.69		18.09	.03	1.09	-150.6
1315	7.01	1.630	12.61	44.23		18.09	.03	1.13	-150.4
1320	7.01	1.638	12.67	44.15		18.09	.03	1.17	-150.0
1325	7.01	1.643	12.68	41.27		18.09	.03	1.11	-150.0

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1325	7.01	1.643	12.68	41.27	300	18.09	.03	1.11	-150.0

Comments: Equipment Blank ID is ATR-EB002-020619 Time 1340

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-14-G020619 | Time: 1325

EB HAS 3/6 & 1

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3/6	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, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = BAC, 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~~ OW-3(35)-G020619
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel GRD Date 2/20/19 Start Time 1140 Weather Cloudy, 37°F

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 17.32 Depth to Product ____ Product Thickness ____
Total Casing Depth 34.98 Borehole Diameter 2" Approx. Pump Depth 31 Feet
Screen Interval top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started 1145 Pump Stopped 1220 Total ~~Gallons~~ 14 Liters

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	6.97	1.923	13.26	7.76	400	17.35	.03	0.26	-153.2
1155	7.00	1.936	13.25	7.99		17.33	.01	0.20	-158.9
1200	7.03	1.933	13.33	9.00		17.32	0.00	0.22	-167.0
1205	7.06	1.924	13.35	12.94		17.32	0.00	0.08	-171.9
1210	7.07	1.928	13.31	10.82		17.32	0.00	0.06	-174.5
1215	7.09	1.908	13.34	10.22		17.32	0.00	0.06	-177.8
1220	7.10	1.899	13.44	9.46		17.32	0.00	0.05	-179.4
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1220	7.10	1.899	13.44	9.46	400	17.32	0.00	0.05	-179.4

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm Turbidity Cal. Solution 0 & 100 NTUs

Sample Name ATR-~~MW~~ OW-3(35)-G020619 Time 1220

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3/6	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 ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW (OW-3(55)) - G020619
Project Number: 3359-15-1040 (Use: Well name)
Sampling Personnel: CCD | Date: 2/6/19 | Start Time: 1035 | Weather: Cloudy 37°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 17.26 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 54.82 | Borehole Diameter: 2" | Approx. Pump Depth: 50 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 1040 | Pump Stopped: 1132 | Total ~~Gallons~~: 20 Liters

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)
1045	6.78	2.142	12.62	199.76	400	17.26	0.0	1.69	-146.1
1050	6.81	2.136	12.74	24.15		17.27	0.01	2.73	-147.4
1055	6.82	2.117	12.47	22.01		17.27	0.01	3.77	-139.7
1100	6.85	2.096	12.47	8.97		17.27	0.01	3.32	-146.8
1105	6.83	2.088	12.71	9.46		17.27	0.01	3.23	-140.5
1110	6.83	2.098	13.02	9.57		17.27	0.01	3.50	-135.1
1115	6.84	2.100	12.95	8.67		17.27	0.01	4.88	-131.9
1120	6.84	2.101	12.91	8.21		17.27	0.01	5.22	-129.9
1125	6.83	2.097	12.98	7.99		17.27	0.01	5.78	-128.1
1130	6.83	2.102	13.01	7.82				5.66	-127.8
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1130	6.83	2.102	13.01	7.82	400	17.27	0.01	5.66	127.8

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW (OW-3(55)) - G020619 | Time: 1130

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3/1	____	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~~ OW-5(44)-G020619
Project Number: 3359-15-1040
Sampling Personnel: GCD | Date: 2/6/19 | Start Time: 0915 | Weather: Cloudy 37°F | (Use: Well name)

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 7.52 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: ____ | Borehole Diameter: 2" | Approx. Pump Depth: 39 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 0920 | Pump Stopped: 1022 | Total Gallons: 12 Liters

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)
0925	6.53	2.843	10.85	33.24	200	7.56	.04	0.30	-119.0
0930	6.47	2.904	11.25	27.30		7.57	.05	0.21	-117.6
0935	6.47	2.921	11.50	24.46		7.58	.06	0.20	-118.3
0940	6.47	2.941	11.62	25.00		7.56	.04	0.22	-118.9
0945	6.45	2.972	11.64	22.46		7.56	.04	0.21	-119.4
0950	6.45	3.002	11.67	21.46		7.56	.04	0.22	-120.2
0955	6.45	3.012	11.81	18.62		7.56	.04	0.19	-120.9
1000	6.45	3.034	11.74	15.46		7.56	.04	0.17	-121.9
1005	6.45	3.073	11.87	13.27		7.56	.04	0.20	-122.8
1010	6.45	3.121	11.90	10.60		7.56	.04	0.20	-123.6
1015	6.45	3.122	11.78	9.96		7.56	.04	0.17	-124.8
1020	6.45	3.137	11.85	9.82		7.56	.04	0.21	-125.2
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1020	6.45	3.137	11.85	9.82	200	7.56	.04	0.21	-125.2

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 1000 NTUs
Sample Name: ~~ATR-MW~~ OW-5(44)-G020619 | Time: 1020

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-5(16)-G020219 (Use: Well name)

Project Number: 3359-15-1040 | Date: 2/6/19 | Start Time: 0815 | Weather: Rain 37°F

Sampling Personnel: ______

MEASUREMENT SUMMARY:

Measuring Point: TOC | Depth to Water: 8.41 | Depth to Product: ______ | Product Thickness: ______

Total Casing Depth: 16.24 | Borehole Diameter: 2" | Approx. Pump Depth: 13 Feet

Screen Interval: top ______ bottom ______ Feet

SAMPLING SUMMARY:

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

Pump Started: 0825 | Pump Stopped: 0907 | Total ~~Gallons~~: 16 Liters

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)
0830	6.46	1.845	11.26	23.17	400	8.48	.07	0.29	-26.6
0835	6.51	1.837	11.42	22.04		8.47	.06	0.21	-72.4
0840	6.60	1.831	11.49	21.27		8.46	.05	0.17	-98.5
0845	6.64	1.825	11.52	17.84		8.45	.04	0.17	-110.5
0850	6.70	1.825	11.55	16.29		8.44	.03	0.17	-120.6
0855	6.73	1.826	11.58	16.96		8.46	.05	0.17	-127.3
0900	6.75	1.825	11.53	15.36		8.46	.05	0.17	-131.7
0905	6.78	1.825	11.60	17.28		8.46	.05	0.18	-136.1

Stabilization Criteria: SC ±3% | Temp ±3% | Turb. ±10 | DO ±10% | ORP ±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0905	6.78	1.825	11.60	17.28	400	8.46	0.05	0.18	-136.1

Comments: ______

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration: 229 mV

SC Reference Solution: 1.413 mS/cm | Turbidity Cal. Solution: 0 & 100 NTUs

Sample Name: ATR-~~MW~~ OW-5(16)-G020619 | Time: 0905

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

Bottle Type:
G = Glass
P = Poly
Preservative Cod-
3

MS/MSD ______ Blind Dup ______ Blind Dup Name ______

wood.

GROUNDWATER/SURFAC
SAMPLING FORM

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GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☑ Sample ID ATR-MW-55(29)-G020719
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel GLD Date 2/7/19 Start Time 0945 Weather Cloudy 39°F

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 14.45 Depth to Product ____ Product Thickness ____
Total Casing Depth ____ Borehole Diameter 2" Approx. Pump Depth 25.5 Feet
Screen Interval top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ Composite ☐ Grundfos ☐ Bladder Pump ☑ Peristaltic Pump ☐ Bailer ☐
Pump Started 0950 Pump Stopped ____ Total ~~Gallons~~ 7 Liters

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)
0955	6.04	1.545	12.27	19.56	200	14.48	0.3	0.72	-89.1
1000	6.10	1.633	12.71	6.65		14.48	.03	0.27	-92.1
1005	6.14	1.663	12.76	3.57		14.48	.03	0.19	-95.1
1010	6.18	1.675	12.89	4.01		14.48	.03	0.18	-97.4
1015	6.20	1.692	12.92	3.98		14.48	.03	0.17	-100.5
1020	6.22	1.710	13.06	3.85		14.48	.03	0.17	-102.8
1025	6.23	1.721	13.08	4.14		14.48	.03	0.16	-104.8
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
1025	6.23	1.721	13.08	4.14	200	14.48	.03	0.16	-104.8

Comments: ____

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☐ ORP Calibration 229 mV
SC Reference Solution 1.413 mS/cm Turbidity Cal. Solution 0 & 100 NTUs

Sample Name ATR-MW-55(29)-G020719 Time 1025

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3/G	1	Dissolved Gasses ☑	3/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 ____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☒ | Sample ID: ATR-MW-20(51) (Use: Well name)
Project Number: 3359-15-1040
Sampling Personnel: _____ | Date: 2/7/19 | Start Time: 0820 | Weather: _____

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 25.66 | Depth to Product: NA | Product Thickness: NA
Total Casing Depth: 51 | Borehole Diameter: 2 | Approx. Pump Depth: 47 Feet
Screen Interval: top 40 bottom 51 Feet

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

Pump Started: 0825 | 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)
0830	7.02	3.682	9.983	17	250	25.66	0	0.89	-76
0835	7.12	3.221	9.8	13	250	25.66	0	0.49	-77
0840	7.14	2.994	9.7	8	250	25.66	0	0.45	-91
0845	7.17	2.764	9.6	5	250	25.66	0	0.42	-109
0850	7.17	2.600	9.7	5	250	25.66	0	0.40	-113
0855	7.17	2.530	9.8	7	250	25.66	0	0.40	-119
0900	7.18	2.458	9.8	6	250	25.66	0	0.39	-122
0905	7.18	2.437	9.8	5	250	25.66	0	0.37	-125
0910	7.18	2.438	9.7	7	250	25.66	0	0.37	-132
0915	7.18	2.426	9.8	5	250	25.66	0	0.37	-136
0920	7.18	2.424	9.8	4	250	25.66	0	0.36	-146

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

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0920	7.18	2.424	9.8	4	250	25.66	0	0.36	-146

Comments: TD = 50.45 after sampling
Flow @ 200 ml/min during sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 225 mV
SC Reference Solution 4.49 mS/cm | Turbidity Cal. Solution 0, 100 NTUs

Sample Name: ATR-MW-20(51)-020719 | Time: 0920

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 - 72(32) (Use: Well name)

Project Number: 3359-15-1040

Sampling Personnel: CoS Date: 2/7/19 Start Time: 1000 Weather: Indoors

MEASUREMENT SUMMARY:

Measuring Point: TOC Depth to Water: 23.98 Depth to Product: NA Product Thickness: NA

Total Casing Depth: 32 Borehole Diameter: 1.5 Approx. Pump Depth: NA Feet

Screen Interval top: 27 bottom: 32 Feet

SAMPLING SUMMARY:

Sampling Method: Grab ☐ Composite ☐ Grundfos ☐ Bladder Pump ☐ (Gals) Peristaltic Pump ☐ Bailer ☒

Pump Started: NA Pump Stopped: NA Total Gallons: 3

Time (24-hr) Gal	pH (S.U.)	SC (mS/cm)	Temp (°C)	Turb. (NTU)	Flow Rate (ml/min)	DTW (ft)	Drawdown (ft)	DO (mg/L)	ORP (mV)
0.5	6.08	3.339	16.9	45	NA	NA	NA	2.22	-97
1.25	6.53	3.402	17.1	54				3.22	-130
2.00	6.57	3.564	16.5	62				3.87	-137
3.00	6.72	3.489	16.8	78				3.64	-156
Stabilization Criteria:	±3%	±3%	±10					±10%	±10

Final:

Gal Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
	6.72	3.489	16.8	78	NA	NA	NA	3.64	-156

Comments: TD= 31.65 after sampling

Calibration: pH Calibration Buffers: 4 ☒ 7 ☒ 10 ☒ ORP Calibration 225 mV

SC Reference Solution 4.49 mS/cm Turbidity Cal. Solution 0.10 NTUs

Sample Name: ATR-MW - 72(32)-G020719 Time: 1040

Analyses (check)		Bottle #/Type	Preservative			Bottle #/Type	Preservative
VOCs	☐	6	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, 2 = HNO_3, 3 = H_2SO_4, 4 = NaOH, 5 = BAC, 6 = Na_3PO_4

MS/MSD ______ Blind Dup ______ Blind Dup Name ______ TB ______

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GROUNDWATER/SURFACE WATER SAMPLING FORM

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GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water ☐ Groundwater ☒ Sample ID ATR-MW-08 (32)
(Use: Well name)
Project Number 3359-15-1040
Sampling Personnel ______ Date 2/7/19 Start Time 1050 Weather Cold

MEASUREMENT SUMMARY:
Measuring Point TOC Depth to Water 24.52 Depth to Product NA Product Thickness NA
Total Casing Depth 32 Borehole Diameter 1.5 Approx. Pump Depth NA Feet
Screen Interval top 27 bottom 32 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)
0.5	6.60	2.668	18.7	37	NA	NA	NA	2.07	-115
1.25	6.82	2.946	17.2	56				2.69	-126
2.0	6.96	3.124	17.9	69				2.87	-146
2.25	7.12	3.138	16.6	82				3.01	-161

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

Final (gal)

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
2.25	7.12	3.138	16.6	82	NA	NA	NA	3.09	-161

Comments: TD = 31.88 after Sampling

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ ORP Calibration 229 mV
SC Reference Solution 4.49 mS/cm Turbidity Cal. Solution 0, 100 NTUs

Sample Name ATR-MW-08(32)-020719 Time 1125

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
VOCs ☑ 6 1 Dissolved Gasses ☒ 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

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GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location: TFS Rochester | Surface Water ☐ | Groundwater ☑ | Sample ID: ATR-MW-81(27)
Project Number: 3359-15-1040 | (Use: Well name)
Sampling Personnel: GCD | Date: 2/7/19 | Start Time: 0815 | Weather: Rain 39°F

MEASUREMENT SUMMARY:
Measuring Point: TOC | Depth to Water: 13.43 | Depth to Product: ____ | Product Thickness: ____
Total Casing Depth: 27.52 | Borehole Diameter: 2" | Approx. Pump Depth: 23.5 Feet
Screen Interval: top ____ bottom ____ Feet

SAMPLING SUMMARY:
Sampling Method: Grab ☑ | Composite ☐ | Grundfos ☐ | Bladder Pump ☑ | Peristaltic Pump ☐ | Bailer ☐
Pump Started: 0835 | Pump Stopped: ____ | Total ~~Gallons~~: 16 Liter

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	6.04	0.904	13.32	22.19	400	13.43	0	0.55	-17.3
0845	5.93	0.950	13.67	33.71	400	13.46	0.53	0.34	-54.4
0850	5.96	0.973	13.56	6.87	200	13.71	0.28	0.19	-80.5
0855	6.00	0.966	13.48	4.45	200	13.68	0.25	0.16	-89.3
0900	6.02	0.962	13.56	5.35	200	13.68	0.25	0.27	-96.5
0905	6.05	0.966	13.57	5.24	200	13.68	0.25	0.29	-99.7
0910	6.06	0.963	13.60	5.37	200	13.68	0.25	0.23	-101.1
Stabilization Criteria:		±3%	±3%	±10				±10%	±10

Final:

Time	pH	SC	Temp	Turb.	Flow Rate	DTW	Drawdown	DO	ORP
0910	6.06	0.963	13.60	5.37	200	13.68	0.25	0.23	-101.1

Comments: Knocked Bubbles off sensor at 0845 - Slowed pump to 200 mL/min
Equipment Blank - ATR-EBC013-020719 Time 0935

Calibration: pH Calibration Buffers: 4 ☑ 7 ☑ 10 ☑ | ORP Calibration 225 mV
SC Reference Solution 1.413 mS/cm | Turbidity Cal. Solution 0 & 100 NTUs

Sample Name: ATR-MW-81(27)-G020719 | Time: 0910

Analyses (check)	Bottle #/Type	Preservative		Bottle #/Type	Preservative
VOCs ☑	3/G	1	Dissolved Gasses ☐	3/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 ____

APPENDIX B

LABORATORY REPORTS AND DATA VALIDATION REPORT

17-Feb-2019

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

Re: **TFS Rochester (3359-15-1040.09.01)** Work Order: **1902385**

Dear Paul,

ALS Environmental received 36 samples on 08-Feb-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 102.

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

ALS Group, USA

Date: 17-Feb-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01)
Work Order: **1902385**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1902385-01	ATR-MW-26 (58)-G020519	Groundwater		2/5/2019 12:40	2/8/2019 13:30	☐
1902385-02	ATR-MW-26 (28.8)-G020519	Groundwater		2/5/2019 13:25	2/8/2019 13:30	☐
1902385-03	ATR-MW-26 (17.5)-G020519	Groundwater		2/5/2019 14:20	2/8/2019 13:30	☐
1902385-04	ATR-OW-4 (54)-G020519	Groundwater		2/5/2019 15:30	2/8/2019 13:30	☐
1902385-05	ATR-EB001-G020519	Water		2/5/2019 16:25	2/8/2019 13:30	☐
1902385-06	ATR-OW-4 (35)-G020519	Groundwater		2/5/2019 16:25	2/8/2019 13:30	☐
1902385-07	ATR-MW-25 (82)-G020619	Groundwater		2/6/2019 09:15	2/8/2019 13:30	☐
1902385-08	ATR-MW-25 (32.6)-G020619	Groundwater		2/6/2019 10:00	2/8/2019 13:30	☐
1902385-09	ATR-MW-25 (16.4)-G020619	Groundwater		2/6/2019 10:40	2/8/2019 13:30	☐
1902385-10	ATR-MW-15-G020619	Groundwater		2/6/2019 11:30	2/8/2019 13:30	☐
1902385-11	ATR-OW-2 (53)-G020619	Groundwater		2/6/2019 12:30	2/8/2019 13:30	☐
1902385-12	ATR-OW-2 (33)-G020619	Groundwater		2/6/2019 13:15	2/8/2019 13:30	☐
1902385-13	ATR-MW-6C-G020619	Groundwater		2/6/2019 14:20	2/8/2019 13:30	☐
1902385-14	ATR-MW-6C-G020619-R	Groundwater		2/6/2019 14:20	2/8/2019 13:30	☐
1902385-15	ATR-MW-20 (51)-G020719	Groundwater		2/7/2019 09:20	2/8/2019 13:30	☐
1902385-16	ATR-72 (32)-G020719	Groundwater		2/7/2019 10:40	2/8/2019 13:30	☐
1902385-17	ATR-68 (32)-G020719	Groundwater		2/7/2019 11:25	2/8/2019 13:30	☐
1902385-18	ATR-OW-3 (55)-G020619	Groundwater		2/6/2019 11:30	2/8/2019 13:30	☐
1902385-19	ATR-OW-3 (35)-G020619	Groundwater		2/6/2019 12:20	2/8/2019 13:30	☐
1902385-20	ATR-MW-14-G020619	Groundwater		2/6/2019 13:25	2/8/2019 13:30	☐
1902385-21	ATR-EB002-G020619	Water		2/6/2019 13:40	2/8/2019 13:30	☐
1902385-22	ATR-OW-1 (39)-G020619	Groundwater		2/6/2019 14:40	2/8/2019 13:30	☐
1902385-23	ATR-MW-82 (58)-G020619	Groundwater		2/6/2019 15:40	2/8/2019 13:30	☐
1902385-24	ATR-MW-59 (46)-G020619	Groundwater		2/6/2019 16:35	2/8/2019 13:30	☐
1902385-25	ATR-TB001-020719	Water		2/7/2019 12:00	2/8/2019 13:30	☐
1902385-26	ATR-MW-17 -G020519	Groundwater		2/5/2019 12:25	2/8/2019 13:30	☐
1902385-27	ATR-OW-6 (63)-G020519	Groundwater		2/6/2019 13:25	2/8/2019 13:30	☐
1902385-28	ATR-OW-6 (38)-G020519	Groundwater		2/6/2019 14:20	2/8/2019 13:30	☐
1902385-29	ATR-OW-6 (38)-G020519 - R	Groundwater		2/6/2019 14:20	2/8/2019 13:30	☐
1902385-30	ATR-MW-27 (18)-G020519	Groundwater		2/5/2019 15:25	2/8/2019 13:30	☐
1902385-31	ATR-OW-5 (35)-G020519	Groundwater		2/5/2019 16:35	2/8/2019 13:30	☐
1902385-32	ATR-OW-5 (16)-G020619	Groundwater		2/6/2019 09:05	2/8/2019 13:30	☐
1902385-33	ATR-OW-5 (44)-G020619	Groundwater		2/6/2019 10:20	2/8/2019 13:30	☐
1902385-34	ATR-MW-81 (27) -G020719	Groundwater		2/7/2019 09:10	2/8/2019 13:30	☐
1902385-35	ATR-EB003 -G020719	Water		2/7/2019 09:35	2/8/2019 13:30	☐
1902385-36	ATR-MW-59 (29) -G020719	Groundwater		2/7/2019 10:25	2/8/2019 13:30	☐

ALS Group, USA

Date: 17-Feb-19

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01)
WorkOrder: **1902385**

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 (3359-15-1040.09.01)
Work Order: 1902385

Case Narrative

Samples for the above noted Work Order were received on 02/08/19. 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 R254614, Method VOC_8260_W, Sample 1902385-24A MS and -24A 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 Bromomethane.

Batch R254614, Method VOC_8260_W, Sample 1902385-24A MS and -24A MSD: The VOC MS and/or MSD recoveries were outside of the control; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for Vinyl Chloride and cis-1,2-Dichloroethene.

Batch R254614, Method VOC_8260_W, Sample 1902385-24A MSD: The VOC MSD recovery was above the upper control limit. The corresponding result in the parent sample was non-detect, therefore no qualification is necessary for 1,1,1-Trichlorobenzene and Ethylbenzene.

Batch R254640, Method VOC_8260_W, Sample 1902385-24A MS and -24A 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 Bromomethane.

Batch R254640, Method VOC_8260_W, Sample 1902385-24A MSD: The VOC RPD between the MS and MSD was outside of the control limit. The corresponding result should be considered estimated for Bromoform.

Batch R254614, Method VOC_8260_W, Sample 1902385-30A MS and -30A 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 Bromomethane.

Batch R254814a, Method VOC_8260_W, Sample 1902385-27A MS and -27A 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 Bromomethane.

Batch R254814a, Method VOC_8260_W, Sample 1902385-27A MSD: The VOC RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for Acetone and 2-Butanone.

Batch R254814a, Method VOC_8260_W, Sample 1902385-27A MSD: The VOC MSD recovery was below the lower control limit. The corresponding result in the parent sample may be biased low for Acetone and 2-Butanone.

No other deviations or anomalies were noted.

ALS Group, USA

Date: *17-Feb-19*

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-26 (58)-G020519 **Lab ID:** 1902385-01
Collection Date: 2/5/2019 12:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 04:37 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 04:37 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Acetone	ND		10	µg/L	1	2/8/2019 04:37 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 04:37 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 04:37 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 04:37 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 04:37 PM
Surr: 1,2-Dichloroethane-d4	*104*		*75-120*	*%REC*	1	2/8/2019 04:37 PM
Surr: 4-Bromofluorobenzene	*93.3*		*80-110*	*%REC*	1	2/8/2019 04:37 PM
Surr: Dibromofluoromethane	*99.2*		*85-115*	*%REC*	1	2/8/2019 04:37 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-26 (58)-G020519 **Lab ID:** 1902385-01
Collection Date: 2/5/2019 12:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	2/8/2019 04:37 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-26 (28.8)-G020519 **Lab ID:** 1902385-02
Collection Date: 2/5/2019 01:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 04:52 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 04:52 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Acetone	ND		10	µg/L	1	2/8/2019 04:52 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 04:52 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 04:52 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 04:52 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 04:52 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/8/2019 04:52 PM
Surr: 4-Bromofluorobenzene	*92.1*		*80-110*	*%REC*	1	2/8/2019 04:52 PM
Surr: Dibromofluoromethane	*98.2*		*85-115*	*%REC*	1	2/8/2019 04:52 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-26 (28.8)-G020519 **Lab ID:** 1902385-02
Collection Date: 2/5/2019 01:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*103*		*85-110*	*%REC*	1	2/8/2019 04:52 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-26 (17.5)-G020519 **Lab ID:** 1902385-03
Collection Date: 2/5/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 05:07 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 05:07 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Acetone	ND		10	µg/L	1	2/8/2019 05:07 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 05:07 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 05:07 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 05:07 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 05:07 PM
Surr: 1,2-Dichloroethane-d4	*106*		*75-120*	*%REC*	1	2/8/2019 05:07 PM
Surr: 4-Bromofluorobenzene	*91.8*		*80-110*	*%REC*	1	2/8/2019 05:07 PM
Surr: Dibromofluoromethane	*97.2*		*85-115*	*%REC*	1	2/8/2019 05:07 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-26 (17.5)-G020519 **Lab ID:** 1902385-03
Collection Date: 2/5/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	2/8/2019 05:07 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-4 (54)-G020519 **Lab ID:** 1902385-04
Collection Date: 2/5/2019 03:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
2-Butanone	**6.4**		**5.0**	**µg/L**	1	2/8/2019 05:22 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 05:22 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Acetone	ND		10	µg/L	1	2/8/2019 05:22 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 05:22 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 05:22 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 05:22 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 05:22 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/8/2019 05:22 PM
Surr: 4-Bromofluorobenzene	*91.4*		*80-110*	*%REC*	1	2/8/2019 05:22 PM
Surr: Dibromofluoromethane	*95.2*		*85-115*	*%REC*	1	2/8/2019 05:22 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-4 (54)-G020519 **Lab ID:** 1902385-04
Collection Date: 2/5/2019 03:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*103*		*85-110*	*%REC*	1	2/8/2019 05:22 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-EB001-G020519 **Lab ID:** 1902385-05
Collection Date: 2/5/2019 04:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 05:37 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 05:37 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Acetone	ND		10	µg/L	1	2/8/2019 05:37 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 05:37 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 05:37 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 05:37 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 05:37 PM
Surr: 1,2-Dichloroethane-d4	*96.6*		*75-120*	*%REC*	1	2/8/2019 05:37 PM
Surr: 4-Bromofluorobenzene	*86.0*		*80-110*	*%REC*	1	2/8/2019 05:37 PM
Surr: Dibromofluoromethane	*95.4*		*85-115*	*%REC*	1	2/8/2019 05:37 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-EB001-G020519 **Lab ID:** 1902385-05
Collection Date: 2/5/2019 04:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*92.6*		*85-110*	*%REC*	1	2/8/2019 05:37 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-4 (35)-G020519 **Lab ID:** 1902385-06
Collection Date: 2/5/2019 04:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 05:52 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 05:52 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Acetone	ND		10	µg/L	1	2/8/2019 05:52 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 05:52 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 05:52 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Toluene	**1.7**		**1.0**	**µg/L**	1	2/8/2019 05:52 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 05:52 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 05:52 PM
Surr: 1,2-Dichloroethane-d4	*97.8*		*75-120*	*%REC*	1	2/8/2019 05:52 PM
Surr: 4-Bromofluorobenzene	*87.8*		*80-110*	*%REC*	1	2/8/2019 05:52 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	2/8/2019 05:52 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-4 (35)-G020519 **Lab ID:** 1902385-06
Collection Date: 2/5/2019 04:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	2/8/2019 05:52 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-25 (82)-G020619 **Lab ID:** 1902385-07
Collection Date: 2/6/2019 09:15 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 02:03 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 02:03 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Acetone	ND		10	µg/L	1	2/11/2019 02:03 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
cis-1,2-Dichloroethene	**1.4**		**1.0**	**µg/L**	1	2/11/2019 02:03 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 02:03 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 02:03 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 02:03 PM
Vinyl chloride	**2.8**		**1.0**	**µg/L**	1	2/11/2019 02:03 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 02:03 PM
Surr: 1,2-Dichloroethane-d4	*104*		*75-120*	*%REC*	1	2/11/2019 02:03 PM
Surr: 4-Bromofluorobenzene	*90.7*		*80-110*	*%REC*	1	2/11/2019 02:03 PM
Surr: Dibromofluoromethane	*103*		*85-115*	*%REC*	1	2/11/2019 02:03 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-25 (82)-G020619 **Lab ID:** 1902385-07
Collection Date: 2/6/2019 09:15 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.4*		*85-110*	*%REC*	1	2/11/2019 02:03 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-25 (32.6)-G020619 **Lab ID:** 1902385-08
Collection Date: 2/6/2019 10:00 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 06:07 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 06:07 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Acetone	ND		10	µg/L	1	2/8/2019 06:07 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 06:07 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 06:07 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 06:07 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 06:07 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	2/8/2019 06:07 PM
Surr: 4-Bromofluorobenzene	*95.7*		*80-110*	*%REC*	1	2/8/2019 06:07 PM
Surr: Dibromofluoromethane	*99.4*		*85-115*	*%REC*	1	2/8/2019 06:07 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-25 (32.6)-G020619 **Lab ID:** 1902385-08
Collection Date: 2/6/2019 10:00 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	2/8/2019 06:07 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-25 (16.4)-G020619 **Lab ID:** 1902385-09
Collection Date: 2/6/2019 10:40 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 06:22 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 06:22 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Acetone	ND		10	µg/L	1	2/8/2019 06:22 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 06:22 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 06:22 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 06:22 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 06:22 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	2/8/2019 06:22 PM
Surr: 4-Bromofluorobenzene	*90.0*		*80-110*	*%REC*	1	2/8/2019 06:22 PM
Surr: Dibromofluoromethane	*96.3*		*85-115*	*%REC*	1	2/8/2019 06:22 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-25 (16.4)-G020619 **Lab ID:** 1902385-09
Collection Date: 2/6/2019 10:40 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.7*		*85-110*	*%REC*	1	2/8/2019 06:22 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-15-G020619 **Lab ID:** 1902385-10
Collection Date: 2/6/2019 11:30 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
2-Butanone	**82**		**5.0**	**µg/L**	1	2/11/2019 02:18 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 02:18 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Acetone	**13**		**10**	**µg/L**	1	2/11/2019 02:18 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 02:18 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 02:18 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 02:18 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 02:18 PM
Surr: 1,2-Dichloroethane-d4	*99.4*		*75-120*	*%REC*	1	2/11/2019 02:18 PM
Surr: 4-Bromofluorobenzene	*91.7*		*80-110*	*%REC*	1	2/11/2019 02:18 PM
Surr: Dibromofluoromethane	*96.9*		*85-115*	*%REC*	1	2/11/2019 02:18 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-15-G020619 **Lab ID:** 1902385-10
Collection Date: 2/6/2019 11:30 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.8*		*85-110*	*%REC*	1	2/11/2019 02:18 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-2 (53)-G020619 **Lab ID:** 1902385-11
Collection Date: 2/6/2019 12:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 06:52 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 06:52 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Acetone	ND		10	µg/L	1	2/8/2019 06:52 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 06:52 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 06:52 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 06:52 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 06:52 PM
Surr: 1,2-Dichloroethane-d4	*97.3*		*75-120*	*%REC*	1	2/8/2019 06:52 PM
Surr: 4-Bromofluorobenzene	*90.8*		*80-110*	*%REC*	1	2/8/2019 06:52 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	2/8/2019 06:52 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-2 (53)-G020619 **Lab ID:** 1902385-11
Collection Date: 2/6/2019 12:30 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.8*		*85-110*	*%REC*	1	2/8/2019 06:52 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-2 (33)-G020619 **Lab ID:** 1902385-12
Collection Date: 2/6/2019 01:15 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 07:07 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 07:07 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Acetone	ND		10	µg/L	1	2/8/2019 07:07 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 07:07 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 07:07 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 07:07 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 07:07 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/8/2019 07:07 PM
Surr: 4-Bromofluorobenzene	*91.6*		*80-110*	*%REC*	1	2/8/2019 07:07 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	2/8/2019 07:07 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-2 (33)-G020619 **Lab ID:** 1902385-12
Collection Date: 2/6/2019 01:15 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	2/8/2019 07:07 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-6C-G020619 **Lab ID:** 1902385-13
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 02:33 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 02:33 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Acetone	ND		10	µg/L	1	2/11/2019 02:33 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
cis-1,2-Dichloroethene	**4.9**		**1.0**	**µg/L**	1	2/11/2019 02:33 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 02:33 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 02:33 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 02:33 PM
Vinyl chloride	**2.1**		**1.0**	**µg/L**	1	2/11/2019 02:33 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 02:33 PM
Surr: 1,2-Dichloroethane-d4	*103*		*75-120*	*%REC*	1	2/11/2019 02:33 PM
Surr: 4-Bromofluorobenzene	*90.2*		*80-110*	*%REC*	1	2/11/2019 02:33 PM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	2/11/2019 02:33 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-6C-G020619 **Lab ID:** 1902385-13
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	2/11/2019 02:33 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-6C-G020619-R **Lab ID:** 1902385-14
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 02:48 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 02:48 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Acetone	ND		10	µg/L	1	2/11/2019 02:48 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
cis-1,2-Dichloroethene	**4.5**		**1.0**	**µg/L**	1	2/11/2019 02:48 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 02:48 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 02:48 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 02:48 PM
Vinyl chloride	**2.3**		**1.0**	**µg/L**	1	2/11/2019 02:48 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 02:48 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/11/2019 02:48 PM
Surr: 4-Bromofluorobenzene	*95.8*		*80-110*	*%REC*	1	2/11/2019 02:48 PM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	2/11/2019 02:48 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-6C-G020619-R **Lab ID:** 1902385-14
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	2/11/2019 02:48 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-20 (51)-G020719 **Lab ID:** 1902385-15
Collection Date: 2/7/2019 09:20 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 07:53 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 07:53 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Acetone	ND		10	µg/L	1	2/8/2019 07:53 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 07:53 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 07:53 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 07:53 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 07:53 PM
Surr: 1,2-Dichloroethane-d4	*103*		*75-120*	*%REC*	1	2/8/2019 07:53 PM
Surr: 4-Bromofluorobenzene	*91.6*		*80-110*	*%REC*	1	2/8/2019 07:53 PM
Surr: Dibromofluoromethane	*95.4*		*85-115*	*%REC*	1	2/8/2019 07:53 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-20 (51)-G020719 **Lab ID:** 1902385-15
Collection Date: 2/7/2019 09:20 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	2/8/2019 07:53 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-72 (32)-G020719 **Lab ID:** 1902385-16
Collection Date: 2/7/2019 10:40 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 08:08 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 08:08 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Acetone	ND		10	µg/L	1	2/8/2019 08:08 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
cis-1,2-Dichloroethene	**1.0**		**1.0**	**µg/L**	1	2/8/2019 08:08 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 08:08 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 08:08 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Vinyl chloride	ND		1.0	µg/L	1	2/8/2019 08:08 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 08:08 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	2/8/2019 08:08 PM
Surr: 4-Bromofluorobenzene	*95.0*		*80-110*	*%REC*	1	2/8/2019 08:08 PM
Surr: Dibromofluoromethane	*99.6*		*85-115*	*%REC*	1	2/8/2019 08:08 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-72 (32)-G020719 **Lab ID:** 1902385-16
Collection Date: 2/7/2019 10:40 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	2/8/2019 08:08 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-68 (32)-G020719 **Lab ID:** 1902385-17
Collection Date: 2/7/2019 11:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
2-Butanone	**13**		**5.0**	**µg/L**	1	2/8/2019 08:23 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 08:23 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Acetone	**16**		**10**	**µg/L**	1	2/8/2019 08:23 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
cis-1,2-Dichloroethene	**4.9**		**1.0**	**µg/L**	1	2/8/2019 08:23 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Ethylbenzene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
m,p-Xylene	ND		2.0	µg/L	1	2/8/2019 08:23 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 08:23 PM
o-Xylene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Toluene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 08:23 PM
Vinyl chloride	**35**		**1.0**	**µg/L**	1	2/8/2019 08:23 PM
Xylenes, Total	ND		3.0	µg/L	1	2/8/2019 08:23 PM
Surr: 1,2-Dichloroethane-d4	*106*		*75-120*	*%REC*	1	2/8/2019 08:23 PM
Surr: 4-Bromofluorobenzene	*94.4*		*80-110*	*%REC*	1	2/8/2019 08:23 PM
Surr: Dibromofluoromethane	*99.2*		*85-115*	*%REC*	1	2/8/2019 08:23 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-68 (32)-G020719 **Lab ID:** 1902385-17
Collection Date: 2/7/2019 11:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.1*		*85-110*	*%REC*	1	2/8/2019 08:23 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-3 (55)-G020619 **Lab ID:** 1902385-18
Collection Date: 2/6/2019 11:30 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
2-Butanone	**14**		**5.0**	**µg/L**	1	2/11/2019 03:03 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 03:03 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Acetone	ND		10	µg/L	1	2/11/2019 03:03 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 03:03 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 03:03 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 03:03 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 03:03 PM
Surr: 1,2-Dichloroethane-d4	*103*		*75-120*	*%REC*	1	2/11/2019 03:03 PM
Surr: 4-Bromofluorobenzene	*93.8*		*80-110*	*%REC*	1	2/11/2019 03:03 PM
Surr: Dibromofluoromethane	*103*		*85-115*	*%REC*	1	2/11/2019 03:03 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-3 (55)-G020619 **Lab ID:** 1902385-18
Collection Date: 2/6/2019 11:30 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.8*		*85-110*	*%REC*	1	2/11/2019 03:03 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-3 (35)-G020619 **Lab ID:** 1902385-19
Collection Date: 2/6/2019 12:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 03:34 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 03:34 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Acetone	ND		10	µg/L	1	2/11/2019 03:34 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 03:34 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 03:34 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 03:34 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 03:34 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	2/11/2019 03:34 PM
Surr: 4-Bromofluorobenzene	*92.4*		*80-110*	*%REC*	1	2/11/2019 03:34 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	2/11/2019 03:34 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-3 (35)-G020619 **Lab ID:** 1902385-19
Collection Date: 2/6/2019 12:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.1*		*85-110*	*%REC*	1	2/11/2019 03:34 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-14-G020619 **Lab ID:** 1902385-20
Collection Date: 2/6/2019 01:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 03:49 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 03:49 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Acetone	ND		10	µg/L	1	2/11/2019 03:49 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
cis-1,2-Dichloroethene	**1.0**		**1.0**	**µg/L**	1	2/11/2019 03:49 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 03:49 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 03:49 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 03:49 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 03:49 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/11/2019 03:49 PM
Surr: 4-Bromofluorobenzene	*92.3*		*80-110*	*%REC*	1	2/11/2019 03:49 PM
Surr: Dibromofluoromethane	*104*		*85-115*	*%REC*	1	2/11/2019 03:49 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-14-G020619 **Lab ID:** 1902385-20
Collection Date: 2/6/2019 01:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.7*		*85-110*	*%REC*	1	2/11/2019 03:49 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-EB002-G020619 **Lab ID:** 1902385-21
Collection Date: 2/6/2019 01:40 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
2-Butanone	ND		5.0	µg/L	1	2/13/2019 01:58 PM
2-Hexanone	ND		5.0	µg/L	1	2/13/2019 01:58 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Acetone	ND		10	µg/L	1	2/13/2019 01:58 PM
Benzene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Bromoform	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Bromomethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Carbon disulfide	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Chlorobenzene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Chloroethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Chloroform	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Chloromethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Ethylbenzene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
m,p-Xylene	ND		2.0	µg/L	1	2/13/2019 01:58 PM
Methylene chloride	ND		5.0	µg/L	1	2/13/2019 01:58 PM
o-Xylene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Styrene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Toluene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Trichloroethene	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Vinyl chloride	ND		1.0	µg/L	1	2/13/2019 01:58 PM
Xylenes, Total	ND		3.0	µg/L	1	2/13/2019 01:58 PM
Surr: 1,2-Dichloroethane-d4	*99.6*		*75-120*	*%REC*	1	2/13/2019 01:58 PM
Surr: 4-Bromofluorobenzene	*95.0*		*80-110*	*%REC*	1	2/13/2019 01:58 PM
Surr: Dibromofluoromethane	*97.9*		*85-115*	*%REC*	1	2/13/2019 01:58 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-EB002-G020619 **Lab ID:** 1902385-21
Collection Date: 2/6/2019 01:40 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*104*		*85-110*	*%REC*	1	2/13/2019 01:58 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-1 (39)-G020619 **Lab ID:** 1902385-22
Collection Date: 2/6/2019 02:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 04:04 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 04:04 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Acetone	ND		10	µg/L	1	2/11/2019 04:04 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 04:04 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 04:04 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 04:04 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 04:04 PM
Surr: 1,2-Dichloroethane-d4	*105*		*75-120*	*%REC*	1	2/11/2019 04:04 PM
Surr: 4-Bromofluorobenzene	*95.0*		*80-110*	*%REC*	1	2/11/2019 04:04 PM
Surr: Dibromofluoromethane	*106*		*85-115*	*%REC*	1	2/11/2019 04:04 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-1 (39)-G020619 **Lab ID:** 1902385-22
Collection Date: 2/6/2019 02:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	2/11/2019 04:04 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-82 (58)-G020619 **Lab ID:** 1902385-23
Collection Date: 2/6/2019 03:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 04:19 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 04:19 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Acetone	ND		10	µg/L	1	2/11/2019 04:19 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 04:19 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 04:19 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 04:19 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 04:19 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/11/2019 04:19 PM
Surr: 4-Bromofluorobenzene	*91.2*		*80-110*	*%REC*	1	2/11/2019 04:19 PM
Surr: Dibromofluoromethane	*99.6*		*85-115*	*%REC*	1	2/11/2019 04:19 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-82 (58)-G020619 **Lab ID:** 1902385-23
Collection Date: 2/6/2019 03:40 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	2/11/2019 04:19 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-59 (46)-G020619 **Lab ID:** 1902385-24
Collection Date: 2/6/2019 04:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
1,1-Dichloroethene	**12**		**1.0**	**µg/L**	1	2/8/2019 08:53 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
2-Butanone	ND		5.0	µg/L	1	2/8/2019 08:53 PM
2-Hexanone	ND		5.0	µg/L	1	2/8/2019 08:53 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Acetone	ND		10	µg/L	1	2/8/2019 08:53 PM
Benzene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Bromoform	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Bromomethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Carbon disulfide	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Chlorobenzene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Chloroethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Chloroform	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Chloromethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
cis-1,2-Dichloroethene	**1,200**		**100**	**µg/L**	100	2/11/2019 03:19 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Ethylbenzene	**5.0**		**1.0**	**µg/L**	1	2/8/2019 08:53 PM
m,p-Xylene	**5.8**		**2.0**	**µg/L**	1	2/8/2019 08:53 PM
Methylene chloride	ND		5.0	µg/L	1	2/8/2019 08:53 PM
o-Xylene	**3.3**		**1.0**	**µg/L**	1	2/8/2019 08:53 PM
Styrene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Toluene	**6.9**		**1.0**	**µg/L**	1	2/8/2019 08:53 PM
trans-1,2-Dichloroethene	**7.0**		**1.0**	**µg/L**	1	2/8/2019 08:53 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Trichloroethene	ND		1.0	µg/L	1	2/8/2019 08:53 PM
Vinyl chloride	**1,600**		**100**	**µg/L**	100	2/11/2019 03:19 PM
Xylenes, Total	**9.1**		**3.0**	**µg/L**	1	2/8/2019 08:53 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	2/8/2019 08:53 PM
Surr: 1,2-Dichloroethane-d4	*99.6*		*75-120*	*%REC*	100	2/11/2019 03:19 PM
Surr: 4-Bromofluorobenzene	*94.4*		*80-110*	*%REC*	1	2/8/2019 08:53 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-59 (46)-G020619 **Lab ID:** 1902385-24
Collection Date: 2/6/2019 04:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*95.4*		*80-110*	*%REC*	100	2/11/2019 03:19 PM
Surr: Dibromofluoromethane	*99.0*		*85-115*	*%REC*	1	2/8/2019 08:53 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	100	2/11/2019 03:19 PM
Surr: Toluene-d8	*101*		*85-110*	*%REC*	100	2/11/2019 03:19 PM
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	2/8/2019 08:53 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-TB001-020719 **Lab ID:** 1902385-25
Collection Date: 2/7/2019 12:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
2-Butanone	ND		5.0	µg/L	1	2/12/2019 12:50 PM
2-Hexanone	ND		5.0	µg/L	1	2/12/2019 12:50 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Acetone	ND		10	µg/L	1	2/12/2019 12:50 PM
Benzene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Bromoform	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Bromomethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Carbon disulfide	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Chlorobenzene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Chloroethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Chloroform	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Chloromethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Ethylbenzene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
m,p-Xylene	ND		2.0	µg/L	1	2/12/2019 12:50 PM
Methylene chloride	ND		5.0	µg/L	1	2/12/2019 12:50 PM
o-Xylene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Styrene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Toluene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Trichloroethene	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Vinyl chloride	ND		1.0	µg/L	1	2/12/2019 12:50 PM
Xylenes, Total	ND		3.0	µg/L	1	2/12/2019 12:50 PM
Surr: 1,2-Dichloroethane-d4	*100*		*75-120*	*%REC*	1	2/12/2019 12:50 PM
Surr: 4-Bromofluorobenzene	*96.2*		*80-110*	*%REC*	1	2/12/2019 12:50 PM
Surr: Dibromofluoromethane	*95.4*		*85-115*	*%REC*	1	2/12/2019 12:50 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-TB001-020719 **Lab ID:** 1902385-25
Collection Date: 2/7/2019 12:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*102*		*85-110*	*%REC*	1	2/12/2019 12:50 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-17 -G020519 **Lab ID:** 1902385-26
Collection Date: 2/5/2019 12:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 04:34 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 04:34 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Acetone	ND		10	µg/L	1	2/11/2019 04:34 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
cis-1,2-Dichloroethene	**21**		**1.0**	**µg/L**	1	2/11/2019 04:34 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 04:34 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 04:34 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Trichloroethene	**42**		**1.0**	**µg/L**	1	2/11/2019 04:34 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 04:34 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 04:34 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/11/2019 04:34 PM
Surr: 4-Bromofluorobenzene	*92.0*		*80-110*	*%REC*	1	2/11/2019 04:34 PM
Surr: Dibromofluoromethane	*99.5*		*85-115*	*%REC*	1	2/11/2019 04:34 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-17 -G020519 **Lab ID:** 1902385-26
Collection Date: 2/5/2019 12:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.2*		*85-110*	*%REC*	1	2/11/2019 04:34 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-6 (63)-G020519 **Lab ID:** 1902385-27
Collection Date: 2/6/2019 01:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
2-Butanone	**180**		**25**	**µg/L**	5	2/13/2019 12:40 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 04:49 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Acetone	**12**		**10**	**µg/L**	1	2/11/2019 04:49 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 04:49 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 04:49 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 04:49 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 04:49 PM
Surr: 1,2-Dichloroethane-d4	*99.6*		*75-120*	*%REC*	1	2/11/2019 04:49 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	5	2/13/2019 12:40 PM
Surr: 4-Bromofluorobenzene	*95.7*		*80-110*	*%REC*	1	2/11/2019 04:49 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-6 (63)-G020519 **Lab ID:** 1902385-27
Collection Date: 2/6/2019 01:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	*95.5*		*80-110*	*%REC*	5	2/13/2019 12:40 PM
Surr: Dibromofluoromethane	*100*		*85-115*	*%REC*	1	2/11/2019 04:49 PM
Surr: Dibromofluoromethane	*92.6*		*85-115*	*%REC*	5	2/13/2019 12:40 PM
Surr: Toluene-d8	*97.8*		*85-110*	*%REC*	5	2/13/2019 12:40 PM
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	2/11/2019 04:49 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-6 (38)-G020519 **Lab ID:** 1902385-28
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 05:04 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 05:04 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Acetone	ND		10	µg/L	1	2/11/2019 05:04 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 05:04 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 05:04 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 05:04 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 05:04 PM
Surr: 1,2-Dichloroethane-d4	*95.4*		*75-120*	*%REC*	1	2/11/2019 05:04 PM
Surr: 4-Bromofluorobenzene	*95.6*		*80-110*	*%REC*	1	2/11/2019 05:04 PM
Surr: Dibromofluoromethane	*94.0*		*85-115*	*%REC*	1	2/11/2019 05:04 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-6 (38)-G020519 **Lab ID:** 1902385-28
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*96.7*		*85-110*	*%REC*	1	2/11/2019 05:04 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-6 (38)-G020519 - R **Lab ID:** 1902385-29
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 05:19 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 05:19 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Acetone	ND		10	µg/L	1	2/11/2019 05:19 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 05:19 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 05:19 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 05:19 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 05:19 PM
Surr: 1,2-Dichloroethane-d4	*96.8*		*75-120*	*%REC*	1	2/11/2019 05:19 PM
Surr: 4-Bromofluorobenzene	*93.6*		*80-110*	*%REC*	1	2/11/2019 05:19 PM
Surr: Dibromofluoromethane	*98.8*		*85-115*	*%REC*	1	2/11/2019 05:19 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-6 (38)-G020519 - R **Lab ID:** 1902385-29
Collection Date: 2/6/2019 02:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	2/11/2019 05:19 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-27 (18)-G020519 **Lab ID:** 1902385-30
Collection Date: 2/5/2019 03:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 05:35 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 05:35 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Acetone	ND		10	µg/L	1	2/11/2019 05:35 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 05:35 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 05:35 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 05:35 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 05:35 PM
Surr: 1,2-Dichloroethane-d4	*96.4*		*75-120*	*%REC*	1	2/11/2019 05:35 PM
Surr: 4-Bromofluorobenzene	*90.8*		*80-110*	*%REC*	1	2/11/2019 05:35 PM
Surr: Dibromofluoromethane	*102*		*85-115*	*%REC*	1	2/11/2019 05:35 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-27 (18)-G020519 **Lab ID:** 1902385-30
Collection Date: 2/5/2019 03:25 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.2*		*85-110*	*%REC*	1	2/11/2019 05:35 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-5 (35)-G020519 **Lab ID:** 1902385-31
Collection Date: 2/5/2019 04:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 05:50 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 05:50 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Acetone	ND		10	µg/L	1	2/11/2019 05:50 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 05:50 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 05:50 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 05:50 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 05:50 PM
Surr: 1,2-Dichloroethane-d4	*104*		*75-120*	*%REC*	1	2/11/2019 05:50 PM
Surr: 4-Bromofluorobenzene	*94.9*		*80-110*	*%REC*	1	2/11/2019 05:50 PM
Surr: Dibromofluoromethane	*105*		*85-115*	*%REC*	1	2/11/2019 05:50 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-5 (35)-G020519 **Lab ID:** 1902385-31
Collection Date: 2/5/2019 04:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.9*		*85-110*	*%REC*	1	2/11/2019 05:50 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-5 (16)-G020619 **Lab ID:** 1902385-32
Collection Date: 2/6/2019 09:05 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
2-Butanone	ND		5.0	µg/L	1	2/11/2019 06:05 PM
2-Hexanone	ND		5.0	µg/L	1	2/11/2019 06:05 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Acetone	ND		10	µg/L	1	2/11/2019 06:05 PM
Benzene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Bromoform	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Bromomethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Carbon disulfide	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Chlorobenzene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Chloroethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Chloroform	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Chloromethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Ethylbenzene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
m,p-Xylene	ND		2.0	µg/L	1	2/11/2019 06:05 PM
Methylene chloride	ND		5.0	µg/L	1	2/11/2019 06:05 PM
o-Xylene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Styrene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Toluene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Trichloroethene	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Vinyl chloride	ND		1.0	µg/L	1	2/11/2019 06:05 PM
Xylenes, Total	ND		3.0	µg/L	1	2/11/2019 06:05 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	2/11/2019 06:05 PM
Surr: 4-Bromofluorobenzene	*92.6*		*80-110*	*%REC*	1	2/11/2019 06:05 PM
Surr: Dibromofluoromethane	*101*		*85-115*	*%REC*	1	2/11/2019 06:05 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-5 (16)-G020619 **Lab ID:** 1902385-32
Collection Date: 2/6/2019 09:05 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.6*		*85-110*	*%REC*	1	2/11/2019 06:05 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-5 (44)-G020619 **Lab ID:** 1902385-33
Collection Date: 2/6/2019 10:20 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
2-Butanone	ND		5.0	µg/L	1	2/13/2019 03:13 PM
2-Hexanone	ND		5.0	µg/L	1	2/13/2019 03:13 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Acetone	ND		10	µg/L	1	2/13/2019 03:13 PM
Benzene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Bromoform	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Bromomethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Carbon disulfide	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Chlorobenzene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Chloroethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Chloroform	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Chloromethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Ethylbenzene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
m,p-Xylene	ND		2.0	µg/L	1	2/13/2019 03:13 PM
Methylene chloride	ND		5.0	µg/L	1	2/13/2019 03:13 PM
o-Xylene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Styrene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Toluene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Trichloroethene	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Vinyl chloride	ND		1.0	µg/L	1	2/13/2019 03:13 PM
Xylenes, Total	ND		3.0	µg/L	1	2/13/2019 03:13 PM
Surr: 1,2-Dichloroethane-d4	*102*		*75-120*	*%REC*	1	2/13/2019 03:13 PM
Surr: 4-Bromofluorobenzene	*96.0*		*80-110*	*%REC*	1	2/13/2019 03:13 PM
Surr: Dibromofluoromethane	*96.2*		*85-115*	*%REC*	1	2/13/2019 03:13 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-OW-5 (44)-G020619 **Lab ID:** 1902385-33
Collection Date: 2/6/2019 10:20 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*99.7*		*85-110*	*%REC*	1	2/13/2019 03:13 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-81 (27) -G020719 **Lab ID:** 1902385-34
Collection Date: 2/7/2019 09:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
2-Butanone	ND		5.0	µg/L	1	2/13/2019 03:28 PM
2-Hexanone	ND		5.0	µg/L	1	2/13/2019 03:28 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Acetone	ND		10	µg/L	1	2/13/2019 03:28 PM
Benzene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Bromoform	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Bromomethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Carbon disulfide	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Chlorobenzene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Chloroethane	**1.2**		**1.0**	**µg/L**	1	2/13/2019 03:28 PM
Chloroform	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Chloromethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
cis-1,2-Dichloroethene	**38**		**1.0**	**µg/L**	1	2/13/2019 03:28 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Ethylbenzene	**1.6**		**1.0**	**µg/L**	1	2/13/2019 03:28 PM
m,p-Xylene	**3.1**		**2.0**	**µg/L**	1	2/13/2019 03:28 PM
Methylene chloride	ND		5.0	µg/L	1	2/13/2019 03:28 PM
o-Xylene	**1.1**		**1.0**	**µg/L**	1	2/13/2019 03:28 PM
Styrene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Toluene	**8.6**		**1.0**	**µg/L**	1	2/13/2019 03:28 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Trichloroethene	ND		1.0	µg/L	1	2/13/2019 03:28 PM
Vinyl chloride	**46**		**1.0**	**µg/L**	1	2/13/2019 03:28 PM
Xylenes, Total	**4.2**		**3.0**	**µg/L**	1	2/13/2019 03:28 PM
Surr: 1,2-Dichloroethane-d4	*95.2*		*75-120*	*%REC*	1	2/13/2019 03:28 PM
Surr: 4-Bromofluorobenzene	*95.0*		*80-110*	*%REC*	1	2/13/2019 03:28 PM
Surr: Dibromofluoromethane	*99.6*		*85-115*	*%REC*	1	2/13/2019 03:28 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-81 (27) -G020719 **Lab ID:** 1902385-34
Collection Date: 2/7/2019 09:10 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*97.9*		*85-110*	*%REC*	1	2/13/2019 03:28 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-EB003 -G020719 **Lab ID:** 1902385-35
Collection Date: 2/7/2019 09:35 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
2-Butanone	ND		5.0	µg/L	1	2/13/2019 02:13 PM
2-Hexanone	ND		5.0	µg/L	1	2/13/2019 02:13 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Acetone	ND		10	µg/L	1	2/13/2019 02:13 PM
Benzene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Bromoform	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Bromomethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Carbon disulfide	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Chlorobenzene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Chloroethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Chloroform	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Chloromethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Ethylbenzene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
m,p-Xylene	ND		2.0	µg/L	1	2/13/2019 02:13 PM
Methylene chloride	ND		5.0	µg/L	1	2/13/2019 02:13 PM
o-Xylene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Styrene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Toluene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Trichloroethene	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Vinyl chloride	ND		1.0	µg/L	1	2/13/2019 02:13 PM
Xylenes, Total	ND		3.0	µg/L	1	2/13/2019 02:13 PM
Surr: 1,2-Dichloroethane-d4	*101*		*75-120*	*%REC*	1	2/13/2019 02:13 PM
Surr: 4-Bromofluorobenzene	*96.0*		*80-110*	*%REC*	1	2/13/2019 02:13 PM
Surr: Dibromofluoromethane	*96.8*		*85-115*	*%REC*	1	2/13/2019 02:13 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-EB003 -G020719 **Lab ID:** 1902385-35
Collection Date: 2/7/2019 09:35 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*98.4*		*85-110*	*%REC*	1	2/13/2019 02:13 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-59 (29) -G020719 **Lab ID:** 1902385-36
Collection Date: 2/7/2019 10:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **PM**
1,1,1-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
2-Butanone	ND		5.0	µg/L	1	2/13/2019 03:44 PM
2-Hexanone	ND		5.0	µg/L	1	2/13/2019 03:44 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Acetone	ND		10	µg/L	1	2/13/2019 03:44 PM
Benzene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Bromodichloromethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Bromoform	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Bromomethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Carbon disulfide	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Carbon tetrachloride	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Chlorobenzene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Chloroethane	**2.1**		**1.0**	**µg/L**	1	2/13/2019 03:44 PM
Chloroform	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Chloromethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Dibromochloromethane	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Ethylbenzene	**2.2**		**1.0**	**µg/L**	1	2/13/2019 03:44 PM
m,p-Xylene	**4.1**		**2.0**	**µg/L**	1	2/13/2019 03:44 PM
Methylene chloride	ND		5.0	µg/L	1	2/13/2019 03:44 PM
o-Xylene	**2.2**		**1.0**	**µg/L**	1	2/13/2019 03:44 PM
Styrene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Tetrachloroethene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Toluene	**2.4**		**1.0**	**µg/L**	1	2/13/2019 03:44 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Trichloroethene	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Vinyl chloride	ND		1.0	µg/L	1	2/13/2019 03:44 PM
Xylenes, Total	**6.3**		**3.0**	**µg/L**	1	2/13/2019 03:44 PM
Surr: 1,2-Dichloroethane-d4	*94.1*		*75-120*	*%REC*	1	2/13/2019 03:44 PM
Surr: 4-Bromofluorobenzene	*95.4*		*80-110*	*%REC*	1	2/13/2019 03:44 PM
Surr: Dibromofluoromethane	*91.4*		*85-115*	*%REC*	1	2/13/2019 03:44 PM

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.09.01) **Work Order:** 1902385
Sample ID: ATR-MW-59 (29) -G020719 **Lab ID:** 1902385-36
Collection Date: 2/7/2019 10:25 AM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: Toluene-d8	*96.7*		*85-110*	*%REC*	1	2/13/2019 03:44 PM

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

QC BATCH REPORT

Batch ID: **R254614** Instrument ID **VMS9** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190208-R254614** Units: **µg/L** Analysis Date: **2/8/2019 02:41 PM**

Client ID: Run ID: **VMS9_190208A** SeqNo: **5514211** 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	0.28	1.0								J
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	*19.53*	0	*20*	0	*97.6*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.09*	0	*20*	0	*95.4*	*80-110*	0			
Surr: Dibromofluoromethane	*19.48*	0	*20*	0	*97.4*	*85-115*	0			
Surr: Toluene-d8	*20.16*	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: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254614** Instrument ID **VMS9** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190208-R254614** Units: **µg/L** Analysis Date: **2/8/2019 01:56 PM**
Client ID: Run ID: **VMS9_190208A** SeqNo: **5514200** 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	19.36	1.0	20	0	96.8	75-130	0			
1,1,2,2-Tetrachloroethane	20.42	1.0	20	0	102	75-130	0			
1,1,2-Trichloroethane	19.46	1.0	20	0	97.3	75-125	0			
1,1-Dichloroethane	19.77	1.0	20	0	98.8	68-142	0			
1,1-Dichloroethene	20.58	1.0	20	0	103	70-145	0			
1,2-Dichloroethane	19.18	1.0	20	0	95.9	78-125	0			
1,2-Dichloropropane	18.96	1.0	20	0	94.8	75-125	0			
2-Butanone	17.75	5.0	20	0	88.8	55-150	0			
2-Hexanone	19.27	5.0	20	0	96.4	60-135	0			
4-Methyl-2-pentanone	26.52	1.0	20	0	133	77-178	0			
Acetone	19.41	10	20	0	97	60-160	0			
Benzene	18.61	1.0	20	0	93	85-125	0			
Bromodichloromethane	17.08	1.0	20	0	85.4	75-125	0			
Bromoform	17.57	1.0	20	0	87.8	60-125	0			
Bromomethane	19.12	1.0	20	0	95.6	30-185	0			
Carbon disulfide	19.58	1.0	20	0	97.9	60-165	0			
Carbon tetrachloride	13.76	1.0	20	0	68.8	65-140	0			
Chlorobenzene	18.71	1.0	20	0	93.6	80-120	0			
Chloroethane	16.47	1.0	20	0	82.4	31-172	0			
Chloroform	18.26	1.0	20	0	91.3	80-130	0			
Chloromethane	16.4	1.0	20	0	82	46-148	0			
cis-1,2-Dichloroethene	19.65	1.0	20	0	98.2	75-134	0			
cis-1,3-Dichloropropene	17.39	1.0	20	0	87	70-130	0			
Dibromochloromethane	14.78	1.0	20	0	73.9	60-115	0			
Ethylbenzene	19.66	1.0	20	0	98.3	76-123	0			
m,p-Xylene	37.3	2.0	40	0	93.2	75-130	0			
Methylene chloride	20.01	5.0	20	0	100	75-140	0			
o-Xylene	18.71	1.0	20	0	93.6	76-127	0			
Styrene	19.05	1.0	20	0	95.2	83-137	0			
Tetrachloroethene	21.08	1.0	20	0	105	68-166	0			
Toluene	18.75	1.0	20	0	93.8	76-125	0			
trans-1,2-Dichloroethene	20.65	1.0	20	0	103	80-140	0			
trans-1,3-Dichloropropene	18.08	1.0	20	0	90.4	56-132	0			
Trichloroethene	19.92	1.0	20	0	99.6	84-130	0			
Vinyl chloride	16.69	1.0	20	0	83.4	50-136	0			
Xylenes, Total	56.01	3.0	60	0	93.4	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.7*	0	*20*	0	*98.5*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*21.26*	0	*20*	0	*106*	*80-110*	0			
Surr: Dibromofluoromethane	*18.13*	0	*20*	0	*90.6*	*85-115*	0			
Surr: Toluene-d8	*20.29*	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: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254614** Instrument ID **VMS9** Method: **SW8260C**

MS Sample ID: **1902385-24A MS** Units: **µg/L** Analysis Date: **2/8/2019 09:23 PM**
Client ID: **ATR-MW-59 (46)-G020619** Run ID: **VMS9_190208A** SeqNo: **5514264** 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	22.82	1.0	20	0	114	75-130	0			
1,1,2,2-Tetrachloroethane	19.36	1.0	20	0	96.8	75-130	0			
1,1,2-Trichloroethane	19.67	1.0	20	0	98.4	75-125	0			
1,1-Dichloroethane	19.94	1.0	20	0	99.7	68-142	0			
1,1-Dichloroethene	33.6	1.0	20	12.1	108	70-145	0			
1,2-Dichloroethane	21.1	1.0	20	0	106	78-125	0			
1,2-Dichloropropane	20.26	1.0	20	0	101	75-125	0			
2-Butanone	16.82	5.0	20	0	84.1	55-150	0			
2-Hexanone	16.03	5.0	20	0	80.2	60-135	0			
4-Methyl-2-pentanone	24.92	1.0	20	0	125	77-178	0			
Acetone	17.49	10	20	0.69	84	60-160	0			
Benzene	19.9	1.0	20	0	99.5	85-125	0			
Bromodichloromethane	18.72	1.0	20	0	93.6	75-125	0			
Bromoform	17.66	1.0	20	0	88.3	60-125	0			
Bromomethane	41.8	1.0	20	0	209	30-185	0			S
Carbon disulfide	21.93	1.0	20	0	110	60-165	0			
Carbon tetrachloride	18.63	1.0	20	0	93.2	65-140	0			
Chlorobenzene	19.98	1.0	20	0	99.9	80-120	0			
Chloroethane	16.81	1.0	20	0	84	31-172	0			
Chloroform	19.87	1.0	20	0	99.4	80-130	0			
Chloromethane	15.38	1.0	20	0	76.9	46-148	0			
cis-1,2-Dichloroethene	1358	1.0	20	1396	-190	75-134	0			SEO
cis-1,3-Dichloropropene	18.3	1.0	20	0	91.5	70-130	0			
Dibromochloromethane	17.09	1.0	20	0	85.4	60-115	0			
Ethylbenzene	25.99	1.0	20	5.03	105	76-123	0			
m,p-Xylene	45.87	2.0	40	5.85	100	75-130	0			
Methylene chloride	18.92	5.0	20	0	94.6	75-140	0			
o-Xylene	23.07	1.0	20	3.28	99	76-127	0			
Styrene	19.9	1.0	20	0	99.5	83-137	0			
Tetrachloroethene	24.08	1.0	20	0	120	68-166	0			
Toluene	27.02	1.0	20	6.89	101	76-125	0			
trans-1,2-Dichloroethene	28.23	1.0	20	6.98	106	80-140	0			
trans-1,3-Dichloropropene	17.39	1.0	20	0	87	56-132	0			
Trichloroethene	20.79	1.0	20	0	104	84-130	0			
Vinyl chloride	1604	1.0	20	1838	-1170	50-136	0			SEO
Xylenes, Total	68.94	3.0	60	9.13	99.7	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.45*	0	*20*	0	*97.2*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.82*	0	*20*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*20.81*	0	*20*	0	*104*	*85-115*	0			
Surr: Toluene-d8	*19.93*	0	*20*	0	*99.6*	*85-110*	0			

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254614** Instrument ID **VMS9** Method: **SW8260C**

MSD Sample ID: **1902385-24A MSD** Units: **µg/L** Analysis Date: **2/8/2019 09:38 PM**
Client ID: **ATR-MW-59 (46)-G020619** Run ID: **VMS9_190208A** SeqNo: **5514265** 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	27.2	1.0	20	0	136	75-130	22.82	17.5	30	S
1,1,2,2-Tetrachloroethane	22.2	1.0	20	0	111	75-130	19.36	13.7	30	
1,1,2-Trichloroethane	23.43	1.0	20	0	117	75-125	19.67	17.4	30	
1,1-Dichloroethane	24.84	1.0	20	0	124	68-142	19.94	21.9	30	
1,1-Dichloroethene	39.87	1.0	20	12.1	139	70-145	33.6	17.1	30	
1,2-Dichloroethane	24.77	1.0	20	0	124	78-125	21.1	16	30	
1,2-Dichloropropane	23.25	1.0	20	0	116	75-125	20.26	13.7	30	
2-Butanone	16.79	5.0	20	0	84	55-150	16.82	0.179	30	
2-Hexanone	17.95	5.0	20	0	89.8	60-135	16.03	11.3	30	
4-Methyl-2-pentanone	27.13	1.0	20	0	136	77-178	24.92	8.49	30	
Acetone	18.94	10	20	0.69	91.2	60-160	17.49	7.96	30	
Benzene	23.53	1.0	20	0	118	85-125	19.9	16.7	30	
Bromodichloromethane	22.81	1.0	20	0	114	75-125	18.72	19.7	30	
Bromoform	21.2	1.0	20	0	106	60-125	17.66	18.2	30	
Bromomethane	51.84	1.0	20	0	259	30-185	41.8	21.4	30	S
Carbon disulfide	27.02	1.0	20	0	135	60-165	21.93	20.8	30	
Carbon tetrachloride	20.07	1.0	20	0	100	65-140	18.63	7.44	30	
Chlorobenzene	23.28	1.0	20	0	116	80-120	19.98	15.3	30	
Chloroethane	20.72	1.0	20	0	104	31-172	16.81	20.8	30	
Chloroform	24.65	1.0	20	0	123	80-130	19.87	21.5	30	
Chloromethane	18.97	1.0	20	0	94.8	46-148	15.38	20.9	30	
cis-1,2-Dichloroethene	1635	1.0	20	1396	1200	75-134	1358	18.5	30	SEO
cis-1,3-Dichloropropene	22.3	1.0	20	0	112	70-130	18.3	19.7	30	
Dibromochloromethane	20.67	1.0	20	0	103	60-115	17.09	19	30	
Ethylbenzene	29.97	1.0	20	5.03	125	76-123	25.99	14.2	30	S
m,p-Xylene	52.96	2.0	40	5.85	118	75-130	45.87	14.3	30	
Methylene chloride	23.63	5.0	20	0	118	75-140	18.92	22.1	30	
o-Xylene	27.74	1.0	20	3.28	122	76-127	23.07	18.4	30	
Styrene	23.89	1.0	20	0	119	83-137	19.9	18.2	30	
Tetrachloroethene	26.55	1.0	20	0	133	68-166	24.08	9.76	30	
Toluene	30.89	1.0	20	6.89	120	76-125	27.02	13.4	30	
trans-1,2-Dichloroethene	33.44	1.0	20	6.98	132	80-140	28.23	16.9	30	
trans-1,3-Dichloropropene	21.06	1.0	20	0	105	56-132	17.39	19.1	30	
Trichloroethene	25.5	1.0	20	0	128	84-130	20.79	20.3	30	
Vinyl chloride	1813	1.0	20	1838	-123	50-136	1604	12.2	30	SEO
Xylenes, Total	80.7	3.0	60	9.13	119	76-127	68.94	15.7	30	
Surr: 1,2-Dichloroethane-d4	*20.14*	0	*20*	0	*101*	*75-120*	19.45	*3.49*	*30*	
Surr: 4-Bromofluorobenzene	*19.62*	0	*20*	0	*98.1*	*80-110*	20.82	*5.93*	*30*	
Surr: Dibromofluoromethane	*20.1*	0	*20*	0	*100*	*85-115*	20.81	*3.47*	*30*	
Surr: Toluene-d8	*19.69*	0	*20*	0	*98.4*	*85-110*	19.93	*1.21*	*30*	

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254614** Instrument ID **VMS9** Method: **SW8260C**

The following samples were analyzed in this batch:

1902385-01A	1902385-02A	1902385-03A
1902385-04A	1902385-05A	1902385-06A
1902385-07A	1902385-08A	1902385-09A
1902385-10A	1902385-11A	1902385-12A
1902385-13A	1902385-14A	1902385-15A
1902385-16A	1902385-17A	1902385-18A
1902385-24A		

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

QC BATCH REPORT

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190211-R254640** Units: **µg/L** Analysis Date: **2/11/2019 12:17 PM**
Client ID: Run ID: **VMS9_190211A** SeqNo: **5516244** 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	0.61	2.0								J
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	*20.82*	0	*20*	0	*104*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*18.35*	0	*20*	0	*91.8*	*80-110*	0			
Surr: Dibromofluoromethane	*19.98*	0	*20*	0	*99.9*	*85-115*	0			
Surr: Toluene-d8	*19.64*	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: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

LCS Sample ID: **VLCSW2-190208-R254640** Units: **µg/L** Analysis Date: **2/11/2019 12:01 PM**
Client ID: Run ID: **VMS9_190211A** SeqNo: **5516243** 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	20.93	1.0	20	0	105	75-130	0			
1,1,2,2-Tetrachloroethane	22.49	1.0	20	0	112	75-130	0			
1,1,2-Trichloroethane	20.81	1.0	20	0	104	75-125	0			
1,1-Dichloroethane	20.65	1.0	20	0	103	68-142	0			
1,1-Dichloroethene	20.41	1.0	20	0	102	70-145	0			
1,2-Dichloroethane	21.03	1.0	20	0	105	78-125	0			
1,2-Dichloropropane	20.05	1.0	20	0	100	75-125	0			
2-Butanone	18.18	5.0	20	0	90.9	55-150	0			
2-Hexanone	20.18	5.0	20	0	101	60-135	0			
4-Methyl-2-pentanone	28.41	1.0	20	0	142	77-178	0			
Acetone	18.47	10	20	0	92.4	60-160	0			
Benzene	19.44	1.0	20	0	97.2	85-125	0			
Bromodichloromethane	19.16	1.0	20	0	95.8	75-125	0			
Bromoform	19.74	1.0	20	0	98.7	60-125	0			
Bromomethane	20.44	1.0	20	0	102	30-185	0			
Carbon disulfide	19.55	1.0	20	0	97.8	60-165	0			
Carbon tetrachloride	15.87	1.0	20	0	79.4	65-140	0			
Chlorobenzene	20.26	1.0	20	0	101	80-120	0			
Chloroethane	14.08	1.0	20	0	70.4	31-172	0			
Chloroform	19.21	1.0	20	0	96	80-130	0			
Chloromethane	13.95	1.0	20	0	69.8	46-148	0			
cis-1,2-Dichloroethene	21.07	1.0	20	0	105	75-134	0			
cis-1,3-Dichloropropene	18.96	1.0	20	0	94.8	70-130	0			
Dibromochloromethane	18.27	1.0	20	0	91.4	60-115	0			
Ethylbenzene	20.1	1.0	20	0	100	76-123	0			
m,p-Xylene	40.18	2.0	40	0	100	75-130	0			
Methylene chloride	20.28	5.0	20	0	101	75-140	0			
o-Xylene	20.23	1.0	20	0	101	76-127	0			
Styrene	21.02	1.0	20	0	105	83-137	0			
Tetrachloroethene	23.78	1.0	20	0	119	68-166	0			
Toluene	20.34	1.0	20	0	102	76-125	0			
trans-1,2-Dichloroethene	21.51	1.0	20	0	108	80-140	0			
trans-1,3-Dichloropropene	20.11	1.0	20	0	101	56-132	0			
Trichloroethene	20.38	1.0	20	0	102	84-130	0			
Vinyl chloride	13.32	1.0	20	0	66.6	50-136	0			
Xylenes, Total	60.41	3.0	60	0	101	76-127	0			
Surr: 1,2-Dichloroethane-d4	*19.38*	0	*20*	0	*96.9*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*21.54*	0	*20*	0	*108*	*80-110*	0			
Surr: Dibromofluoromethane	*18.81*	0	*20*	0	*94*	*85-115*	0			
Surr: Toluene-d8	*19.86*	0	*20*	0	*99.3*	*85-110*	0			

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

QC BATCH REPORT

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

MS Sample ID: **1902385-24A MS** Units: **µg/L** Analysis Date: **2/11/2019 07:05 PM**
Client ID: **ATR-MW-59 (46)-G020619** Run ID: **VMS9_190211A** SeqNo: **5516270** 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	1929	100	2000	0	96.4	75-130	0			
1,1,2,2-Tetrachloroethane	1915	100	2000	0	95.8	75-130	0			
1,1,2-Trichloroethane	1858	100	2000	0	92.9	75-125	0			
1,1-Dichloroethane	1903	100	2000	0	95.2	68-142	0			
1,1-Dichloroethene	2060	100	2000	0	103	70-145	0			
1,2-Dichloroethane	1979	100	2000	0	99	78-125	0			
1,2-Dichloropropane	1781	100	2000	0	89	75-125	0			
2-Butanone	1791	500	2000	0	89.6	55-150	0			
2-Hexanone	1716	500	2000	0	85.8	60-135	0			
4-Methyl-2-pentanone	2409	100	2000	0	120	77-178	0			
Acetone	1772	1,000	2000	0	88.6	60-160	0			
Benzene	1853	100	2000	0	92.6	85-125	0			
Bromodichloromethane	1701	100	2000	0	85	75-125	0			
Bromoform	2125	100	2000	0	106	60-125	0			
Bromomethane	3921	100	2000	0	196	30-185	0			S
Carbon disulfide	1895	100	2000	0	94.8	60-165	0			
Carbon tetrachloride	1460	100	2000	0	73	65-140	0			
Chlorobenzene	1787	100	2000	0	89.4	80-120	0			
Chloroethane	1557	100	2000	0	77.8	31-172	0			
Chloroform	1818	100	2000	0	90.9	80-130	0			
Chloromethane	1428	100	2000	0	71.4	46-148	0			
cis-1,2-Dichloroethene	3514	100	2000	1227	114	75-134	0			
cis-1,3-Dichloropropene	1723	100	2000	0	86.2	70-130	0			
Dibromochloromethane	1414	100	2000	0	70.7	60-115	0			
Ethylbenzene	1906	100	2000	0	95.3	76-123	0			
m,p-Xylene	3653	200	4000	0	91.3	75-130	0			
Methylene chloride	1908	500	2000	0	95.4	75-140	0			
o-Xylene	1966	100	2000	0	98.3	76-127	0			
Styrene	1988	100	2000	0	99.4	83-137	0			
Tetrachloroethene	1975	100	2000	0	98.8	68-166	0			
Toluene	1713	100	2000	0	85.6	76-125	0			
trans-1,2-Dichloroethene	2019	100	2000	0	101	80-140	0			
trans-1,3-Dichloropropene	1591	100	2000	0	79.6	56-132	0			
Trichloroethene	1934	100	2000	0	96.7	84-130	0			
Vinyl chloride	3199	100	2000	1597	80.1	50-136	0			
Xylenes, Total	5619	300	6000	0	93.6	76-127	0			
Surr: 1,2-Dichloroethane-d4	*1895*	0	*2000*	0	*94.8*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*2032*	0	*2000*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethane	*1931*	0	*2000*	0	*96.6*	*85-115*	0			
Surr: Toluene-d8	*1894*	0	*2000*	0	*94.7*	*85-110*	0			

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

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

MS Sample ID: **1902385-30A MS** Units: **µg/L** Analysis Date: **2/11/2019 07:35 PM**
Client ID: **ATR-MW-27 (18)-G020519** Run ID: **VMS9_190211A** SeqNo: **5516278** 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	21.71	1.0	20	0	109	75-130	0			
1,1,2,2-Tetrachloroethane	20.36	1.0	20	0	102	75-130	0			
1,1,2-Trichloroethane	20.69	1.0	20	0	103	75-125	0			
1,1-Dichloroethane	21.13	1.0	20	0	106	68-142	0			
1,1-Dichloroethene	22.93	1.0	20	0	115	70-145	0			
1,2-Dichloroethane	19.99	1.0	20	0	100	78-125	0			
1,2-Dichloropropane	19.56	1.0	20	0	97.8	75-125	0			
2-Butanone	19.6	5.0	20	0	98	55-150	0			
2-Hexanone	18.83	5.0	20	0	94.2	60-135	0			
4-Methyl-2-pentanone	26.9	1.0	20	0	134	77-178	0			
Acetone	19.2	10	20	0	96	60-160	0			
Benzene	20.41	1.0	20	0	102	85-125	0			
Bromodichloromethane	18.67	1.0	20	0	93.4	75-125	0			
Bromoform	17.02	1.0	20	0	85.1	60-125	0			
Bromomethane	42.53	1.0	20	0	213	30-185	0			S
Carbon disulfide	23.26	1.0	20	0	116	60-165	0			
Carbon tetrachloride	16.96	1.0	20	0	84.8	65-140	0			
Chlorobenzene	20.77	1.0	20	0	104	80-120	0			
Chloroethane	17.11	1.0	20	0	85.6	31-172	0			
Chloroform	20.8	1.0	20	0	104	80-130	0			
Chloromethane	16.82	1.0	20	0	84.1	46-148	0			
cis-1,2-Dichloroethene	24.52	1.0	20	0	123	75-134	0			
cis-1,3-Dichloropropene	18.99	1.0	20	0	95	70-130	0			
Dibromochloromethane	16.59	1.0	20	0	83	60-115	0			
Ethylbenzene	21.73	1.0	20	0	109	76-123	0			
m,p-Xylene	40.74	2.0	40	0	102	75-130	0			
Methylene chloride	20.87	5.0	20	0	104	75-140	0			
o-Xylene	20.44	1.0	20	0	102	76-127	0			
Styrene	20.6	1.0	20	0	103	83-137	0			
Tetrachloroethene	22.87	1.0	20	0	114	68-166	0			
Toluene	21.23	1.0	20	0	106	76-125	0			
trans-1,2-Dichloroethene	23.22	1.0	20	0	116	80-140	0			
trans-1,3-Dichloropropene	17.91	1.0	20	0	89.6	56-132	0			
Trichloroethene	21.02	1.0	20	0	105	84-130	0			
Vinyl chloride	18.12	1.0	20	0	90.6	50-136	0			
Xylenes, Total	61.18	3.0	60	0	102	76-127	0			
Surr: 1,2-Dichloroethane-d4	*18.79*	0	*20*	0	*94*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.21*	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethane	*18.94*	0	*20*	0	*94.7*	*85-115*	0			
Surr: Toluene-d8	*20.9*	0	*20*	0	*104*	*85-110*	0			

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

MSD Sample ID: **1902385-24A MSD** Units: **µg/L** Analysis Date: **2/11/2019 07:20 PM**
Client ID: **ATR-MW-59 (46)-G020619** Run ID: **VMS9_190211A** SeqNo: **5516272** 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	1885	100	2000	0	94.2	75-130	1929	2.31	30	
1,1,2,2-Tetrachloroethane	2038	100	2000	0	102	75-130	1915	6.22	30	
1,1,2-Trichloroethane	1844	100	2000	0	92.2	75-125	1858	0.756	30	
1,1-Dichloroethane	1844	100	2000	0	92.2	68-142	1903	3.15	30	
1,1-Dichloroethene	1886	100	2000	0	94.3	70-145	2060	8.82	30	
1,2-Dichloroethane	1852	100	2000	0	92.6	78-125	1979	6.63	30	
1,2-Dichloropropane	1886	100	2000	0	94.3	75-125	1781	5.73	30	
2-Butanone	1867	500	2000	0	93.4	55-150	1791	4.16	30	
2-Hexanone	1793	500	2000	0	89.6	60-135	1716	4.39	30	
4-Methyl-2-pentanone	2544	100	2000	0	127	77-178	2409	5.45	30	
Acetone	1958	1,000	2000	0	97.9	60-160	1772	9.97	30	
Benzene	1798	100	2000	0	89.9	85-125	1853	3.01	30	
Bromodichloromethane	1641	100	2000	0	82	75-125	1701	3.59	30	
Bromoform	1559	100	2000	0	78	60-125	2125	30.7	30	R
Bromomethane	3898	100	2000	0	195	30-185	3921	0.588	30	S
Carbon disulfide	1937	100	2000	0	96.8	60-165	1895	2.19	30	
Carbon tetrachloride	1418	100	2000	0	70.9	65-140	1460	2.92	30	
Chlorobenzene	1772	100	2000	0	88.6	80-120	1787	0.843	30	
Chloroethane	1498	100	2000	0	74.9	31-172	1557	3.86	30	
Chloroform	1808	100	2000	0	90.4	80-130	1818	0.552	30	
Chloromethane	1408	100	2000	0	70.4	46-148	1428	1.41	30	
cis-1,2-Dichloroethene	3576	100	2000	1227	117	75-134	3514	1.75	30	
cis-1,3-Dichloropropene	1731	100	2000	0	86.6	70-130	1723	0.463	30	
Dibromochloromethane	1484	100	2000	0	74.2	60-115	1414	4.83	30	
Ethylbenzene	1802	100	2000	0	90.1	76-123	1906	5.61	30	
m,p-Xylene	3474	200	4000	0	86.8	75-130	3653	5.02	30	
Methylene chloride	1854	500	2000	0	92.7	75-140	1908	2.87	30	
o-Xylene	1775	100	2000	0	88.8	76-127	1966	10.2	30	
Styrene	1763	100	2000	0	88.2	83-137	1988	12	30	
Tetrachloroethene	1967	100	2000	0	98.4	68-166	1975	0.406	30	
Toluene	1762	100	2000	0	88.1	76-125	1713	2.82	30	
trans-1,2-Dichloroethene	1973	100	2000	0	98.6	80-140	2019	2.3	30	
trans-1,3-Dichloropropene	1682	100	2000	0	84.1	56-132	1591	5.56	30	
Trichloroethene	1812	100	2000	0	90.6	84-130	1934	6.51	30	
Vinyl chloride	3196	100	2000	1597	80	50-136	3199	0.0938	30	
Xylenes, Total	5249	300	6000	0	87.5	76-127	5619	6.81	30	
Surr: 1,2-Dichloroethane-d4	*1780*	0	*2000*	0	*89*	*75-120*	1895	*6.26*	*30*	
Surr: 4-Bromofluorobenzene	*1974*	0	*2000*	0	*98.7*	*80-110*	2032	*2.9*	*30*	
Surr: Dibromofluoromethane	*1983*	0	*2000*	0	*99.2*	*85-115*	1931	*2.66*	*30*	
Surr: Toluene-d8	*1992*	0	*2000*	0	*99.6*	*85-110*	1894	*5.04*	*30*	

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

MSD Sample ID: **1902385-30A MSD** Units: **µg/L** Analysis Date: **2/11/2019 07:51 PM**
Client ID: **ATR-MW-27 (18)-G020519** Run ID: **VMS9_190211A** SeqNo: **5516280** 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	22.35	1.0	20	0	112	75-130	21.71	2.91	30	
1,1,2,2-Tetrachloroethane	19.88	1.0	20	0	99.4	75-130	20.36	2.39	30	
1,1,2-Trichloroethane	20.46	1.0	20	0	102	75-125	20.69	1.12	30	
1,1-Dichloroethane	21.87	1.0	20	0	109	68-142	21.13	3.44	30	
1,1-Dichloroethene	23.62	1.0	20	0	118	70-145	22.93	2.96	30	
1,2-Dichloroethane	19.49	1.0	20	0	97.4	78-125	19.99	2.53	30	
1,2-Dichloropropane	19.78	1.0	20	0	98.9	75-125	19.56	1.12	30	
2-Butanone	18.86	5.0	20	0	94.3	55-150	19.6	3.85	30	
2-Hexanone	18.32	5.0	20	0	91.6	60-135	18.83	2.75	30	
4-Methyl-2-pentanone	26.74	1.0	20	0	134	77-178	26.9	0.597	30	
Acetone	21.64	10	20	0	108	60-160	19.2	11.9	30	
Benzene	20.57	1.0	20	0	103	85-125	20.41	0.781	30	
Bromodichloromethane	19.14	1.0	20	0	95.7	75-125	18.67	2.49	30	
Bromoform	16.61	1.0	20	0	83	60-125	17.02	2.44	30	
Bromomethane	43.4	1.0	20	0	217	30-185	42.53	2.02	30	S
Carbon disulfide	23.32	1.0	20	0	117	60-165	23.26	0.258	30	
Carbon tetrachloride	17.46	1.0	20	0	87.3	65-140	16.96	2.91	30	
Chlorobenzene	20.59	1.0	20	0	103	80-120	20.77	0.87	30	
Chloroethane	17.22	1.0	20	0	86.1	31-172	17.11	0.641	30	
Chloroform	19.46	1.0	20	0	97.3	80-130	20.8	6.66	30	
Chloromethane	17	1.0	20	0	85	46-148	16.82	1.06	30	
cis-1,2-Dichloroethene	21.41	1.0	20	0	107	75-134	24.52	13.5	30	
cis-1,3-Dichloropropene	18.47	1.0	20	0	92.4	70-130	18.99	2.78	30	
Dibromochloromethane	16.85	1.0	20	0	84.2	60-115	16.59	1.56	30	
Ethylbenzene	21.32	1.0	20	0	107	76-123	21.73	1.9	30	
m,p-Xylene	40.02	2.0	40	0	100	75-130	40.74	1.78	30	
Methylene chloride	19.75	5.0	20	0	98.8	75-140	20.87	5.51	30	
o-Xylene	19.8	1.0	20	0	99	76-127	20.44	3.18	30	
Styrene	20.17	1.0	20	0	101	83-137	20.6	2.11	30	
Tetrachloroethene	21.95	1.0	20	0	110	68-166	22.87	4.11	30	
Toluene	20.81	1.0	20	0	104	76-125	21.23	2	30	
trans-1,2-Dichloroethene	22.29	1.0	20	0	111	80-140	23.22	4.09	30	
trans-1,3-Dichloropropene	18.44	1.0	20	0	92.2	56-132	17.91	2.92	30	
Trichloroethene	21.61	1.0	20	0	108	84-130	21.02	2.77	30	
Vinyl chloride	18.28	1.0	20	0	91.4	50-136	18.12	0.879	30	
Xylenes, Total	59.82	3.0	60	0	99.7	76-127	61.18	2.25	30	
Surr: 1,2-Dichloroethane-d4	*18.97*	0	*20*	0	*94.8*	*75-120*	18.79	*0.953*	*30*	
Surr: 4-Bromofluorobenzene	*20.33*	0	*20*	0	*102*	*80-110*	20.21	*0.592*	*30*	
Surr: Dibromofluoromethane	*18.66*	0	*20*	0	*93.3*	*85-115*	18.94	*1.49*	*30*	
Surr: Toluene-d8	*20.51*	0	*20*	0	*103*	*85-110*	20.9	*1.88*	*30*	

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254640** Instrument ID **VMS9** Method: **SW8260C**

The following samples were analyzed in this batch:

1902385-07A	1902385-10A	1902385-13A
1902385-14A	1902385-18A	1902385-19A
1902385-20A	1902385-22A	1902385-23A
1902385-24A	1902385-26A	1902385-27A
1902385-28A	1902385-29A	1902385-30A
1902385-31A	1902385-32A	

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

QC BATCH REPORT

Batch ID: **R254701w** Instrument ID **VMS9** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190212-R254701w** Units: **µg/L** Analysis Date: **2/12/2019 12:20 PM**
Client ID: Run ID: **VMS9_190212A** SeqNo: **5519035** 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	0.31	1.0								J
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	*18.75*	0	*20*	0	*93.8*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*18.29*	0	*20*	0	*91.4*	*80-110*	0			
Surr: Dibromofluoromethane	*18.29*	0	*20*	0	*91.4*	*85-115*	0			
Surr: Toluene-d8	*20.23*	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: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254701w** Instrument ID **VMS9** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190212-R254701w** Units: **µg/L** Analysis Date: **2/12/2019 11:35 AM**
Client ID: Run ID: **VMS9_190212A** SeqNo: **5519033** 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	18.89	1.0	20	0	94.4	75-130	0			
1,1,2,2-Tetrachloroethane	20.54	1.0	20	0	103	75-130	0			
1,1,2-Trichloroethane	19.44	1.0	20	0	97.2	75-125	0			
1,1-Dichloroethane	20.26	1.0	20	0	101	68-142	0			
1,1-Dichloroethene	18.98	1.0	20	0	94.9	70-145	0			
1,2-Dichloroethane	18.81	1.0	20	0	94	78-125	0			
1,2-Dichloropropane	19.55	1.0	20	0	97.8	75-125	0			
2-Butanone	18.19	5.0	20	0	91	55-150	0			
2-Hexanone	19.82	5.0	20	0	99.1	60-135	0			
4-Methyl-2-pentanone	27.18	1.0	20	0	136	77-178	0			
Acetone	18.49	10	20	0	92.4	60-160	0			
Benzene	18.71	1.0	20	0	93.6	85-125	0			
Bromodichloromethane	16.87	1.0	20	0	84.4	75-125	0			
Bromoform	17.65	1.0	20	0	88.2	60-125	0			
Bromomethane	18.65	1.0	20	0	93.2	30-185	0			
Carbon disulfide	20.2	1.0	20	0	101	60-165	0			
Carbon tetrachloride	14.27	1.0	20	0	71.4	65-140	0			
Chlorobenzene	18.9	1.0	20	0	94.5	80-120	0			
Chloroethane	15.51	1.0	20	0	77.6	31-172	0			
Chloroform	19.03	1.0	20	0	95.2	80-130	0			
Chloromethane	16.34	1.0	20	0	81.7	46-148	0			
cis-1,2-Dichloroethene	20.59	1.0	20	0	103	75-134	0			
cis-1,3-Dichloropropene	17.82	1.0	20	0	89.1	70-130	0			
Dibromochloromethane	15.61	1.0	20	0	78	60-115	0			
Ethylbenzene	18.97	1.0	20	0	94.8	76-123	0			
m,p-Xylene	37.08	2.0	40	0	92.7	75-130	0			
Methylene chloride	19.6	5.0	20	0	98	75-140	0			
o-Xylene	18.53	1.0	20	0	92.6	76-127	0			
Styrene	19.3	1.0	20	0	96.5	83-137	0			
Tetrachloroethene	20.32	1.0	20	0	102	68-166	0			
Toluene	18.63	1.0	20	0	93.2	76-125	0			
trans-1,2-Dichloroethene	21.31	1.0	20	0	107	80-140	0			
trans-1,3-Dichloropropene	18.26	1.0	20	0	91.3	56-132	0			
Trichloroethene	19.47	1.0	20	0	97.4	84-130	0			
Vinyl chloride	15.04	1.0	20	0	75.2	50-136	0			
Xylenes, Total	55.61	3.0	60	0	92.7	76-127	0			
Surr: 1,2-Dichloroethane-d4	*18.93*	0	*20*	0	*94.6*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.8*	0	*20*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*19.14*	0	*20*	0	*95.7*	*85-115*	0			
Surr: Toluene-d8	*19.93*	0	*20*	0	*99.6*	*85-110*	0			

The following samples were analyzed in this batch: 1902385-25A

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

QC BATCH REPORT

Batch ID: **R254814a** Instrument ID **VMS9** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-190213-R254814a** Units: **µg/L** Analysis Date: **2/13/2019 11:53 AM**
Client ID: Run ID: **VMS9_190213A** SeqNo: **5519479** 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	0.33	1.0								J
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	*19.66*	0	*20*	0	*98.3*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*18.95*	0	*20*	0	*94.8*	*80-110*	0			
Surr: Dibromofluoromethane	*19.41*	0	*20*	0	*97*	*85-115*	0			
Surr: Toluene-d8	*19.86*	0	*20*	0	*99.3*	*85-110*	0			

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254814a** Instrument ID **VMS9** Method: **SW8260C**

LCS Sample ID: **VLCSW1-190213-R254814a** Units: **µg/L** Analysis Date: **2/13/2019 11:23 AM**
Client ID: Run ID: **VMS9_190213A** SeqNo: **5519478** 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	19.28	1.0	20	0	96.4	75-130	0			
1,1,2,2-Tetrachloroethane	18.37	1.0	20	0	91.8	75-130	0			
1,1,2-Trichloroethane	17.92	1.0	20	0	89.6	75-125	0			
1,1-Dichloroethane	19.61	1.0	20	0	98	68-142	0			
1,1-Dichloroethene	20.84	1.0	20	0	104	70-145	0			
1,2-Dichloroethane	19.11	1.0	20	0	95.6	78-125	0			
1,2-Dichloropropane	18.56	1.0	20	0	92.8	75-125	0			
2-Butanone	18.47	5.0	20	0	92.4	55-150	0			
2-Hexanone	17.27	5.0	20	0	86.4	60-135	0			
4-Methyl-2-pentanone	24.79	1.0	20	0	124	77-178	0			
Acetone	19.48	10	20	0	97.4	60-160	0			
Benzene	17.79	1.0	20	0	89	85-125	0			
Bromodichloromethane	16.6	1.0	20	0	83	75-125	0			
Bromoform	16.31	1.0	20	0	81.6	60-125	0			
Bromomethane	19.09	1.0	20	0	95.4	30-185	0			
Carbon disulfide	19.08	1.0	20	0	95.4	60-165	0			
Carbon tetrachloride	14.92	1.0	20	0	74.6	65-140	0			
Chlorobenzene	17.7	1.0	20	0	88.5	80-120	0			
Chloroethane	14.11	1.0	20	0	70.6	31-172	0			
Chloroform	18.82	1.0	20	0	94.1	80-130	0			
Chloromethane	14.4	1.0	20	0	72	46-148	0			
cis-1,2-Dichloroethene	19.78	1.0	20	0	98.9	75-134	0			
cis-1,3-Dichloropropene	17.64	1.0	20	0	88.2	70-130	0			
Dibromochloromethane	14.12	1.0	20	0	70.6	60-115	0			
Ethylbenzene	17.68	1.0	20	0	88.4	76-123	0			
m,p-Xylene	35.09	2.0	40	0	87.7	75-130	0			
Methylene chloride	19.6	5.0	20	0	98	75-140	0			
o-Xylene	17.53	1.0	20	0	87.6	76-127	0			
Styrene	18.41	1.0	20	0	92	83-137	0			
Tetrachloroethene	19.41	1.0	20	0	97	68-166	0			
Toluene	17.32	1.0	20	0	86.6	76-125	0			
trans-1,2-Dichloroethene	21.05	1.0	20	0	105	80-140	0			
trans-1,3-Dichloropropene	17.23	1.0	20	0	86.2	56-132	0			
Trichloroethene	18.78	1.0	20	0	93.9	84-130	0			
Vinyl chloride	14.5	1.0	20	0	72.5	50-136	0			
Xylenes, Total	52.62	3.0	60	0	87.7	76-127	0			
Surr: 1,2-Dichloroethane-d4	*18.99*	0	*20*	0	*95*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*21.31*	0	*20*	0	*107*	*80-110*	0			
Surr: Dibromofluoromethane	*18.54*	0	*20*	0	*92.7*	*85-115*	0			
Surr: Toluene-d8	*19.81*	0	*20*	0	*99*	*85-110*	0			

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254814a** Instrument ID **VMS9** Method: **SW8260C**

MS Sample ID: **1902385-27A MS** Units: **µg/L** Analysis Date: **2/13/2019 12:55 PM**
Client ID: **ATR-OW-6 (63)-G020519** Run ID: **VMS9_190213A** SeqNo: **5521141** 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	119.8	5.0	100	0	120	75-130	0			
1,1,2,2-Tetrachloroethane	98.95	5.0	100	0	99	75-130	0			
1,1,2-Trichloroethane	97.75	5.0	100	0	97.8	75-125	0			
1,1-Dichloroethane	111.6	5.0	100	0	112	68-142	0			
1,1-Dichloroethene	116.1	5.0	100	0	116	70-145	0			
1,2-Dichloroethane	105.5	5.0	100	0	106	78-125	0			
1,2-Dichloropropane	104.2	5.0	100	0	104	75-125	0			
2-Butanone	254	25	100	175.6	78.4	55-150	0			
2-Hexanone	86.3	25	100	0	86.3	60-135	0			
4-Methyl-2-pentanone	127.1	5.0	100	0	127	77-178	0			
Acetone	91.75	50	100	17.45	74.3	60-160	0			
Benzene	104.6	5.0	100	0	105	85-125	0			
Bromodichloromethane	102.5	5.0	100	0	102	75-125	0			
Bromoform	90.35	5.0	100	0	90.4	60-125	0			
Bromomethane	211.6	5.0	100	0	212	30-185	0			S
Carbon disulfide	118.6	5.0	100	0	119	60-165	0			
Carbon tetrachloride	88.2	5.0	100	0	88.2	65-140	0			
Chlorobenzene	98.95	5.0	100	0	99	80-120	0			
Chloroethane	79.95	5.0	100	0	80	31-172	0			
Chloroform	104.2	5.0	100	0	104	80-130	0			
Chloromethane	74.45	5.0	100	0	74.4	46-148	0			
cis-1,2-Dichloroethene	106.9	5.0	100	0	107	75-134	0			
cis-1,3-Dichloropropene	97.75	5.0	100	0	97.8	70-130	0			
Dibromochloromethane	84.3	5.0	100	0	84.3	60-115	0			
Ethylbenzene	104.8	5.0	100	0	105	76-123	0			
m,p-Xylene	201.4	10	200	0	101	75-130	0			
Methylene chloride	109	25	100	8.1	101	75-140	0			
o-Xylene	98.6	5.0	100	0	98.6	76-127	0			
Styrene	104.2	5.0	100	0	104	83-137	0			
Tetrachloroethene	115.6	5.0	100	0	116	68-166	0			
Toluene	97.75	5.0	100	0	97.8	76-125	0			
trans-1,2-Dichloroethene	119.4	5.0	100	0	119	80-140	0			
trans-1,3-Dichloropropene	95.2	5.0	100	0	95.2	56-132	0			
Trichloroethene	114	5.0	100	0	114	84-130	0			
Vinyl chloride	88.6	5.0	100	0	88.6	50-136	0			
Xylenes, Total	300	15	300	0	100	76-127	0			
Surr: 1,2-Dichloroethane-d4	*98*	0	*100*	0	*98*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*103.9*	0	*100*	0	*104*	*80-110*	0			
Surr: Dibromofluoromethane	*98.95*	0	*100*	0	*99*	*85-115*	0			
Surr: Toluene-d8	*97.2*	0	*100*	0	*97.2*	*85-110*	0			

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

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 1902385
Project: TFS Rochester (3359-15-1040.09.01)

QC BATCH REPORT

Batch ID: **R254814a** Instrument ID **VMS9** Method: **SW8260C**

MSD Sample ID: **1902385-27A MSD** Units: **µg/L** Analysis Date: **2/13/2019 01:10 PM**
Client ID: **ATR-OW-6 (63)-G020519** Run ID: **VMS9_190213A** SeqNo: **5521142** 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	126.1	5.0	100	0	126	75-130	119.8	5.17	30	
1,1,2,2-Tetrachloroethane	107.4	5.0	100	0	107	75-130	98.95	8.24	30	
1,1,2-Trichloroethane	105.4	5.0	100	0	105	75-125	97.75	7.58	30	
1,1-Dichloroethane	113.4	5.0	100	0	113	68-142	111.6	1.6	30	
1,1-Dichloroethene	122	5.0	100	0	122	70-145	116.1	4.96	30	
1,2-Dichloroethane	113	5.0	100	0	113	78-125	105.5	6.91	30	
1,2-Dichloropropane	111.4	5.0	100	0	111	75-125	104.2	6.77	30	
2-Butanone	164	25	100	175.6	-11.6	55-150	254	43.1	30	SR
2-Hexanone	88.45	25	100	0	88.4	60-135	86.3	2.46	30	
4-Methyl-2-pentanone	115.2	5.0	100	0	115	77-178	127.1	9.87	30	
Acetone	62.25	50	100	17.45	44.8	60-160	91.75	38.3	30	SR
Benzene	110	5.0	100	0	110	85-125	104.6	5.03	30	
Bromodichloromethane	103.4	5.0	100	0	103	75-125	102.5	0.874	30	
Bromoform	99.5	5.0	100	0	99.5	60-125	90.35	9.64	30	
Bromomethane	236.4	5.0	100	0	236	30-185	211.6	11.1	30	S
Carbon disulfide	127.2	5.0	100	0	127	60-165	118.6	7.04	30	
Carbon tetrachloride	93.3	5.0	100	0	93.3	65-140	88.2	5.62	30	
Chlorobenzene	108.6	5.0	100	0	109	80-120	98.95	9.25	30	
Chloroethane	88.2	5.0	100	0	88.2	31-172	79.95	9.81	30	
Chloroform	114.8	5.0	100	0	115	80-130	104.2	9.72	30	
Chloromethane	79.15	5.0	100	0	79.2	46-148	74.45	6.12	30	
cis-1,2-Dichloroethene	120.7	5.0	100	0	121	75-134	106.9	12.1	30	
cis-1,3-Dichloropropene	105.8	5.0	100	0	106	70-130	97.75	7.91	30	
Dibromochloromethane	90.55	5.0	100	0	90.6	60-115	84.3	7.15	30	
Ethylbenzene	113.1	5.0	100	0	113	76-123	104.8	7.67	30	
m,p-Xylene	223.2	10	200	0	112	75-130	201.4	10.3	30	
Methylene chloride	112.6	25	100	8.1	104	75-140	109	3.2	30	
o-Xylene	109.2	5.0	100	0	109	76-127	98.6	10.2	30	
Styrene	111.1	5.0	100	0	111	83-137	104.2	6.41	30	
Tetrachloroethene	126.5	5.0	100	0	126	68-166	115.6	8.96	30	
Toluene	106	5.0	100	0	106	76-125	97.75	8.15	30	
trans-1,2-Dichloroethene	122.8	5.0	100	0	123	80-140	119.4	2.81	30	
trans-1,3-Dichloropropene	104.8	5.0	100	0	105	56-132	95.2	9.65	30	
Trichloroethene	114.2	5.0	100	0	114	84-130	114	0.175	30	
Vinyl chloride	88.8	5.0	100	0	88.8	50-136	88.6	0.225	30	
Xylenes, Total	332.4	15	300	0	111	76-127	300	10.2	30	
Surr: 1,2-Dichloroethane-d4	*101.9*	0	*100*	0	*102*	*75-120*	98	*3.9*	*30*	
Surr: 4-Bromofluorobenzene	*103.8*	0	*100*	0	*104*	*80-110*	103.9	*0.144*	*30*	
Surr: Dibromofluoromethane	*99.3*	0	*100*	0	*99.3*	*85-115*	98.95	*0.353*	*30*	
Surr: Toluene-d8	*99*	0	*100*	0	*99*	*85-110*	97.2	*1.83*	*30*	

The following samples were analyzed in this batch:

1902385-21A	1902385-27A	1902385-33A
1902385-34A	1902385-35A	1902385-36A

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

QC BATCH REPORT

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Chain of Custody Form

Page 1 of 5

COC ID: 186520

ALS Project Manager: | ALS Work Order #: 1902385

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Tox Rochester	A	VOC
Work Order		Project Number	33591510 40.09.01	B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To		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-MW-26(58)-G020519	2/5/19	1240	GW	1	3	X										
2	ATR-MW-26(28.8)-G020519	2/5/19	1325	GW		3	X										
3	ATR-MW-26(17.5)-G020519	2/5/19	1420			3	X										
4	ATR-OW-4(54)-G020519	2/5/19	1530			3	X										
5	ATR-EB001-020519	2/5/19	1540			3	X										
6	ATR-OW-4(35)G020519	2/5/19	1625			3	X										
~~7~~	~~ATR-MW-25(82)-G020619~~	~~2/6/19~~	~~0915~~	JW 2/6/19		3	X										
9	ATR-MW-25(82)-G020619	2/6/19	0915			3	X										
8	ATR-MW-25(37.6)-G020619	2/6/19	1000			3	X										
10	ATR-MW-25(10.4)-G020619	2/6/19	1040				X										

Sampler(s) Please Print & Sign: G. Schoenberger | 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: 2/7/19	Time: 1200	Received by:	Notes: New wkn 2/7/19 1536	
Relinquished by:	Date: 02/07/19	Time: 1253	Received by (Laboratory):	Cooler ID	Cooler Temp.
Logged by (Laboratory): MF	Date: 2-8-19	Time: 14:25	Checked by (Laboratory):	SKZ	3.0C
				DH15	

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.
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Chain of Custody Form

COC ID: 186519

ALS Project Manager: | ALS Work Order #: 1902385

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Tork Ratchaster	A	VOC
Work Order		Project Number		B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To		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		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
10	ATR-MW-15-G020619	2/6/19	1130	GW	1	3	X										
11 2	ATR-OW-2(53)-G020619	2/6/19	1230	|	|	3	X										
12 3	ATR-OW-2(33)-G020619	2/6/19	1315	|	|	3	X										
13 4	ATR-MW-6C-G020619	2/6/19	1420	|	|	3	X										
14 5	ATR-MW-6C-G020619R	2/6/19	1420	|	|	3	X										
15 6	ATR-MW-20(51)-G020719	2/7/19	0920	|	|	3	X										
16 7	ATR-72(32)-G020719	2/7/19	1040	|	|	3	X										
17 8	ATR-68(32)-G020719	2/7/19	1125	|	|	3	X										
18 9																	
19 10																	

Sampler(s) Please Print & Sign: G. Schoonberger

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: 2/7/19	Time: 1200	Received by:		
Relinquished by:	Date: 2/07/19	Time: 1253	Received by (Laboratory):		
Logged by (Laboratory): MF	Date: 2-8-19	Time: 14:25	Checked by (Laboratory):		

Notes: Resampled 2/5/19 1530

Cooler ID	Cooler Temp.
SKZ	
PHS	3.0C

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

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COC ID: 186518

ALS Project Manager: | ALS Work Order #: 1902385

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Tonk Rochester (Textron)	A	VOC
Work Order		Project Number	3359151040.09.01	B	
Company Name	Wood Environment & Infrastructure Soluti ons, Inc	Bill To Company	Wood Environment & Infrastructure Sol utions, Inc	C	
Send Report To		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.stock@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
18 1	ATR-OW-3(55)-G020619	2/6/19	1130	GW	1	3	X										
19 2	ATR-OW-3(35)-G020619	2/6/19	1220	GW	1	3	X										
20 3	ATR-MW-14-G020619	2/6/19	1325	GW	1	3	X										
21 4 22	ATR-EB002-020619	2/6/19	1340	DI water unit#3	1	3	X										
5	ATR-OW-1(39)-G020619	2/6/19	1440	GW	1	3	X										
23 6	ATR-MW-82(58)-G020619	2/6/19	1540	GW	1	3	X										
24 7	ATR-MW-59(46)-G020619	2/6/19	1635	GW	1	3	X										
25 8	ATR-MW-59(46)-G020619MS	2/6/19	1635	GW	1	3	X										
26 9	ATR-MW-59(46)-G020619MSD	2/6/19	1635	GW	1	3	X										
28 10	ATR-TB001-020719	2/7/19	1200		1	1	X										

Sampler(s) Please Print & Sign: Gerald Dornbusch Jr

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:	Time:	Received by:	Notes:
[signature]	02/07/19	1253	[signature]	
Relinquished by: [signature]	Date: 2/7/19	Time:	Received by (Laboratory): [signature] 2-8-19 13:30	
Logged by (Laboratory): NF	Date: 2-8-19	Time: 1425	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
SR2	3.0C
pH 15	

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

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Chain of Custody Form

COC ID: 186521

ALS Project Manager: | ALS Work Order #: 1902385

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Tokx Rochester (Textron)	A	VOC
Work Order		Project Number	335915104O.09.01	B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To		Invoice Attn	Accounts Payable	D	
Address	521 Byers Road, Suite 204	Address	521 Byers Road, Suite 304	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.sturk@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-MW-17-G020519	02/05/19	1225	GW	1	3	X										
2	ATR-OW-6(63)-G020519	02/05/19	1325	GW	1	3	X										
3	ATR-OW-6(38)-G020519	02/05/19	1420	GW	1	3	X										
4	ATR-OW-6(38)-G020519R	02/05/19	1420	GW	1	3	X										
5	ATR-MW-27(18)-G020519	02/05/19	1525	GW	1	3	X										
6	ATR-MW-27(18)-G020519MS	02/05/19	1525	GW	1	3	X										
7	ATR-MW-27(18)-G020519MSD	02/05/19	1525	GW	1	3	X										
8	ATR-OW-5(35)-G020519	02/05/19	1635	GW	1	3	X										
9	ATR-OW-5(16)-G020619	02/06/19	0905	GW	1	3	X										
10	ATR-OW-5(44)-G020619	02/06/19	1020	GW	1	3	X										

Sampler(s) Please Print & Sign: Gerald L. Doerbusch Sr

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: 02/07/19	Time: 1253	Received by:	
Relinquished by:	Date: 2/7/19	Time:	Received by (Laboratory):	2-8-19
Logged by (Laboratory):	Date: 2-8-19	Time: 14:25	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.
SKZ	
PHS	3.0C

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

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Chain of Custody Form

COC ID: 186517

ALS Project Manager: | ALS Work Order #: 1902385

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Torx Rochester (Textron	A	VOC
Work Order		Project Number	33591510 40.09.01	B	
Company Name	Wood Environment & Infrastructure Soluti	Bill To Company	Wood Environment & Infrastructure Sol	C	
Send Report To		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.Stuck@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-MW-81(22)-G020719	2/7/19	0910	GW	1	3	X										
2	ATR-EB003-020719	2/7/19	0935		1	3	X										
3	~~ATR-MW-59(25)-G020719~~																ERR GCMS
4	ATR-MW-59(25)-G020719	2/7/19	1025	GW	1	3	X										
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Gerald L. Dombusch Jr

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: 02/07/19	Time: 1253	Received by:		
Relinquished by:	Date: 2/7/19	Time: 1530	Received by (Laboratory):	2-8-19 13:30	
Logged by (Laboratory): MC	Date: 2-8-19	Time: 14:25	Checked by (Laboratory):		

Notes:

Cooler ID	Cooler Temp.
SKZ	
PHIS	3.0C

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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ALS Group, USA

Sample Receipt Checklist

Client Name: **WOOD-DAYTON** Date/Time Received: **08-Feb-19 13:30**

Work Order: **1902385** Received by: **BNF**

Checklist completed by Bernina France (eSignature) 08-Feb-19 (Date) Reviewed by: Bill Carey (eSignature) 08-Feb-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):	3.0/3.0 C	SR2	
Cooler(s)/Kit(s):	1		
Date/Time sample(s) sent to storage:	2/8/2019 3:13:59 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

February 20, 2019

Paul Stork
Wood Environment & Infastructure Soultions, Inc
521 Byers Road
Suite 204
Miamisburg, OH 45342

RE: **TORX / 3359151040.09.01**

Pace Workorder: 29432

Dear Paul Stork:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, February 08, 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 02/20/2019
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 20

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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).

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SAMPLE SUMMARY

Workorder: 29432 TORX / 3359151040.09.01

Lab ID	Sample ID	Matrix	Date Collected	Date Received
294320001	ATR-MW-6C-G020619	Water	2/6/2019 14:20	2/8/2019 10:30
294320002	ATR-MW-6C-G020619R	Water	2/6/2019 14:20	2/8/2019 10:30
294320003	ATR-MW-59(29)-G020719	Water	2/7/2019 10:25	2/8/2019 10:30
294320004	ATR-MW-81(27)-G020719	Water	2/7/2019 09:10	2/8/2019 10:30
294320005	ATR-MW-EB003-020719	Water	2/7/2019 09:35	2/8/2019 10:30
294320006	ATR-MW-72(32)-G020719	Water	2/7/2019 10:40	2/8/2019 10:30
294320007	ATR-MW-68(32)-G020719	Water	2/7/2019 11:25	2/8/2019 10:30

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PROJECT SUMMARY

Workorder: 29432 TORX / 3359151040.09.01

Workorder Comments

The container pH for samples 29432 (0003-0004, 0006-0007) were measured as below the expected pH (< 10) for those samples preserved with trisodium phosphate, as assigned to PAES method AM20GAx.

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320001** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-6C-G020619** Date Collected: 2/6/2019 14:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**26000**	ug/l	0.50	0.014	1	2/12/2019 07:27	BW	n
Ethane	**33**	ug/l	0.10	0.0070	1	2/12/2019 07:27	BW	n
Ethene	**0.95**	ug/l	0.10	0.0050	1	2/12/2019 07:27	BW	n

ACCREDITED IN ACCORDANCE WITH nelac

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320002** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-6C-G020619R** Date Collected: 2/6/2019 14:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**25000**	ug/l	0.50	0.014	1	2/12/2019 07:38	BW	n
Ethane	**33**	ug/l	0.10	0.0070	1	2/12/2019 07:38	BW	n
Ethene	**0.80**	ug/l	0.10	0.0050	1	2/12/2019 07:38	BW	n

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320003** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-59(29)-G020719** Date Collected: 2/7/2019 10:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**27000**	ug/l	0.50	0.014	1	2/12/2019 07:51	BW	n
Ethane	**380**	ug/l	0.10	0.0070	1	2/12/2019 07:51	BW	n
Ethene	**0.31**	ug/l	0.10	0.0050	1	2/12/2019 07:51	BW	n

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320004** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-81(27)-G020719** Date Collected: 2/7/2019 09:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**25000**	ug/l	0.50	0.014	1	2/12/2019 08:02	BW	n
Ethane	**350**	ug/l	0.10	0.0070	1	2/12/2019 08:02	BW	n
Ethene	**1.0**	ug/l	0.10	0.0050	1	2/12/2019 08:02	BW	n

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320005** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-EB003-020719** Date Collected: 2/7/2019 09:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**0.26J**	ug/l	0.50	0.014	1	2/12/2019 08:12	BW	n
Ethane	**0.10 U**	ug/l	0.10	0.0070	1	2/12/2019 08:12	BW	n
Ethene	**0.0094J**	ug/l	0.10	0.0050	1	2/12/2019 08:12	BW	n

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320006** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-72(32)-G020719** Date Collected: 2/7/2019 10:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**10000**	ug/l	0.50	0.014	1	2/12/2019 08:21	BW	n
Ethane	**40**	ug/l	0.10	0.0070	1	2/12/2019 08:21	BW	n
Ethene	**0.27**	ug/l	0.10	0.0050	1	2/12/2019 08:21	BW	n

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ANALYTICAL RESULTS

Workorder: 29432 TORX / 3359151040.09.01

Lab ID: **294320007** Date Received: 2/8/2019 10:30 Matrix: Water

Sample ID: **ATR-MW-68(32)-G020719** Date Collected: 2/7/2019 11:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - PAES								
Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	**13000**	ug/l	0.50	0.014	1	2/12/2019 08:31	BW	n
Ethane	**170**	ug/l	0.10	0.0070	1	2/12/2019 08:31	BW	n
Ethene	**200**	ug/l	0.10	0.0050	1	2/12/2019 08:31	BW	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 29432 TORX / 3359151040.09.01

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.

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QUALITY CONTROL DATA

Workorder: 29432 TORX / 3359151040.09.01

QC Batch: DISG/7361 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 294320001, 294320002, 294320003, 294320004, 294320005, 294320006, 294320007

METHOD BLANK: 59720

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 59721 59722

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	780	780	105	104	80-120	0.47	20	n
Ethane	ug/l	38	41	41	109	109	80-120	0.0029	20	n
Ethene	ug/l	35	38	38	109	108	80-120	0.38	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 29432 TORX / 3359151040.09.01

QUALITY CONTROL PARAMETER QUALIFIERS

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: 29432 TORX / 3359151040.09.01

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
294320001	ATR-MW-6C-G020619			AM20GAX	DISG/7361
294320002	ATR-MW-6C-G020619R			AM20GAX	DISG/7361
294320003	ATR-MW-59(29)-G020719			AM20GAX	DISG/7361
294320004	ATR-MW-81(27)-G020719			AM20GAX	DISG/7361
294320005	ATR-MW-EB003-020719			AM20GAX	DISG/7361
294320006	ATR-MW-72(32)-G020719			AM20GAX	DISG/7361
294320007	ATR-MW-68(32)-G020719			AM20GAX	DISG/7361

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412-826-5245

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

29432

Page: 1 of 1

012837

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Wood E&I	Report To: Paul Stork	Attention:
Address: 521 Byers Rd	Copy To:	Company Name:
Suite 204		Address:
Email To: Paul.Stork@woodplc.com	Purchase Order No.:	Pace Quote Reference:
Phone: 937-859-3600 Fax:	Project Name: Turx Redesta (Textron	Pace Project Manager:
Requested Due Date/TAT:	Project Number: 3359151040.09.01	Pace Profile #:

REGULATORY AGENCY: NPDES, GROUND WATER (circled), DRINKING WATER, UST, RCRA, OTHER ____

Site Location STATE: IN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	TIME	COMPOSITE END/GRAB DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zinc Acetate & NaOH	Other	Analysis Test Y/N	AMDCCAX	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	ATR-GC-G020619	WT	G	2/6/19	1430				3					X					X		
2	ATR-GC-G020619R	|	|	2/6/19	1430				3					X					X		
3	ATR-MW-59(29)-G020719	|	|	2/7/19	1025				3					X					X		
4	ATR-MW-81(27)-G020719	|	|	2/7/19	0910				3					X					X		
5	ATR-MW-B003-020719	|	|	2/7/19	0935				3					X					X		
6	ATR-MW-72(32)-G020719	|	|	2/7/19	1040				3					X					X		
7	ATR-MW-68(37)-G020719	|	|	2/7/19	1125				3					X					X		
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	2/7/19	1830	[signature] / PACE	2.8.19	1030	2	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: B. Schoenberger

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 02/07/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Cooler Receipt Form

Client Name: _____ **Project:** Exxon Terx **Lab Work Order:** 27452

A. **Shipping/Container Information** (circle appropriate response)

Courier: FedEx UPS USPS Client Other:_____ **Air bill Present:** Yes No

Tracking Number:_____

Custody Seal on Cooler/Box Present: Yes No **Seals Intact:** Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other:_____

Type of Ice: Wet Blue None **Ice Intact:** Yes Melted

Cooler Temperature:_____ **Radiation Screened:** Yes No **Chain of Custody Present:** Yes No

Comments:_____

B. **Laboratory Assignment/Log-in** (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out				
Chain of Custody relinquished				
Sampler Name & Signature on COC				
Containers intact				
Were samples in separate bags				
Sample container labels match COC Sample name/date and time collected				
Sufficient volume provided				
PAES containers used				
Are containers properly preserved for the requested testing? (as labeled)				
If an unknown preservation state, were containers checked? Exception: VOA's coliform				If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?				
Headspace present?				

Comments:_____

_____

Cooler contents examined/received by :_____ **Date:**_____

Project Manager Review : ERB **Date:** 2-8-19

NON-CONFORMANCE FORM

PAES Work Order #: 29432

Date: ____________ Time of Receipt: ________ Receiver: ____________________

Client: ____________________

REASON FOR NON-CONFORMANCE:

[illegible]

[illegible]

[illegible]

4. ATR-MW-GS(32)-020712 Vials ID was

ATR-MW-GS(32)-020719

ACTION TAKEN:

Client name: Wood E&I Date: 2-8-19 Time: 15:26

Emailed client to notify & confirm correct Sample IDs.

Customer Service Initials: SRG Date: 2-8-19

Emma Louis - RE: Torx Rochester

From: "Stork, Paul J." <paul.stork@woodplc.com>
To: Emma Louis <Emma.Louis@pacelabs.com>
Date: 2/8/2019 3:38 PM
Subject: RE: Torx Rochester

Emma,

For item #1 please use the vial ID ATR-MW-6C-G020619 & ATR-MW-6c-G020619R.

For Item #4 please use ATR-MW-68(32)-G020719.

Thanks, Paul

Paul Stork
Principal Project Manager
Office 937 859 3600
Direct: 937 353 7210
Mobile: 937 671 7573
www.woodplc.com

wood.

From: Emma Louis [Emma.Louis@pacelabs.com]
Sent: Friday, February 08, 2019 3:27 PM
To: Stork, Paul J. <paul.stork@woodplc.com>
Subject: Torx Rochester

Hi Paul,

We received the samples for the project above. During log-in the following was noted:

1. ATR-6C-G020619 & ATR-6C-G020619R: Vials IDs were ATR-MW-6C-G020619 & ATR-MW-6c-G020619R.

2. ATR-MW-81(27)-G020719: Head space larger than 6mm was found present in two vials. We will use the remaining vial and qualify if needed.

3. ATR-MW-EB003-020719: one vial broke during transit.

4. ATR-MW-68(32)-020712: Vials ID was ATR-MW-68(32)-G020719. We have logged it in using the vials ID as that is consistent with the other samples.

Please let me know the correct sample IDs for notes 1 and 4.

Thank you

Emma Louis
Project Coordinator
Pace Analytical Energy Services, LLC
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DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

1.0 INTRODUCTION

Groundwater samples were collected during monitoring well sampling completed in February 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 8260B

Sample results were validated using general procedures in the USEPA National Data Validation Guidelines (USEPA, 1999), Indiana Department of Environmental Management (IDEM) data validation 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 a subset of samples in SDG 1902385. 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 on 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. 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

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

Continuing Calibration

In the continuing calibration standard associated with the full validation sample subset, percent differences for the following target analytes exceeded the project goal of 20:

Chloroethane
Chloromethane
Vinyl chloride

Positive and non-detect results for chloroethane and vinyl chloride in associated samples were qualified estimated (J/UJ). Chloromethane was not detected in associated samples, and reporting limits were qualified estimated (UJ). Qualified results are summarized in Table 3 with reason code CCV%D.

LCS

In the LCS associated with batch R254614, the recovery of carbon tetrachloride (69) was less than the limit of 70. Carbon tetrachloride was not detected in associated samples and reporting limits were qualified estimated (UJ). Qualified results are included in Table 3 and were assigned reason code LCS-L.

In the LCS associated with batch R254640, the recovery of vinyl chloride (67) was less than the limit of 70. Positive and non-detect results for vinyl chloride were qualified estimated (J/UJ). Qualified results are included in Table 3 and were assigned reason code LCS-L.

MS/MSD

A subset of results for the following compounds was qualified as estimated values (J) due to MS/MSD percent recoveries outside the QAPP specified control limits. Qualified results are summarized in Table 3 and were assigned reason code MS-H.

1,1-Dichloroethene
trans-1,2-Dichloroethene

In the MS/MSD associated with sample ATR-MW-59(46)-G020619, percent recoveries for 1,1-dichloroethene(139) and trans-1,2-dichloroethene (132) were greater than the 70-130 control limits, indicating potential high bias.

Field Duplicates

Field duplicates were collected at locations MW-6C and OW-6(38). Good agreement was observed for all VOC results reported in these samples and associated field duplicates.

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: Julie Ricardi

Julie Ricardi

Date: April 12, 2019

Report Reviewed by: Chris Ricardi, NRCC_EAC

Chris Ricardi

Date: April 22, 2019

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Lab Sample ID	Location	Field Samp	Date	Matrix	Type	SW8260B VOC
1902385	MW-14	ATR-MW-14-G020619	2/6/2019	GW	1902385-20A	FS	36
1902385	MW-15	ATR-MW-15-G020619	2/6/2019	GW	1902385-10A	FS	36
1902385	MW-17	ATR-MW-17 -G020519	2/5/2019	GW	1902385-26A	FS	36
1902385	MW-20(51)	ATR-MW-20 (51)-G020719	2/7/2019	GW	1902385-15A	FS	36
1902385	MW-25(16.4)	ATR-MW-25 (16.4)-G020619	2/6/2019	GW	1902385-09A	FS	36
1902385	MW-25(32.6)	ATR-MW-25 (32.6)-G020619	2/6/2019	GW	1902385-08A	FS	36
1902385	MW-25(82)	ATR-MW-25 (82)-G020619	2/6/2019	GW	1902385-07A	FS	36
1902385	MW-26(17.5)	ATR-MW-26 (17.5)-G020519	2/5/2019	GW	1902385-03A	FS	36
1902385	MW-26(28.8)	ATR-MW-26 (28.8)-G020519	2/5/2019	GW	1902385-02A	FS	36
1902385	MW-26(58.8)	ATR-MW-26 (58)-G020519	2/5/2019	GW	1902385-01A	FS	36
1902385	MW-27(18)	ATR-MW-27 (18)-G020519	2/5/2019	GW	1902385-30A	FS	36
1902385	MW-59(29)	ATR-MW-59 (29) -G020719	2/7/2019	GW	1902385-36A	FS	36
1902385	MW-59(46)	ATR-MW-59 (46)-G020619	2/6/2019	GW	1902385-24A	FS	36
1902385	MW-68(32)	ATR-68 (32)-G020719	2/7/2019	GW	1902385-17A	FS	36
1902385	MW-6C	ATR-MW-6C-G020619	2/6/2019	GW	1902385-13A	FS	36
1902385	MW-6C	ATR-MW-6C-G020619-R	2/6/2019	GW	1902385-14A	FD	36
1902385	MW-72(32)	ATR-72 (32)-G020719	2/7/2019	GW	1902385-16A	FS	36
1902385	MW-81(27)	ATR-MW-81 (27) -G020719	2/7/2019	GW	1902385-34A	FS	36
1902385	MW-82(58)	ATR-MW-82 (58)-G020619	2/6/2019	GW	1902385-23A	FS	36
1902385	OW-01(39)	ATR-OW-1 (39)-G020619	2/6/2019	GW	1902385-22A	FS	36
1902385	OW-02(33)	ATR-OW-2 (33)-G020619	2/6/2019	GW	1902385-12A	FS	36
1902385	OW-02(53)	ATR-OW-2 (53)-G020619	2/6/2019	GW	1902385-11A	FS	36
1902385	OW-03(35)	ATR-OW-3 (35)-G020619	2/6/2019	GW	1902385-19A	FS	36
1902385	OW-03(55)	ATR-OW-3 (55)-G020619	2/6/2019	GW	1902385-18A	FS	36
1902385	OW-04(35)	ATR-OW-4 (35)-G020519	2/5/2019	GW	1902385-06A	FS	36
1902385	OW-04(54)	ATR-OW-4 (54)-G020519	2/5/2019	GW	1902385-04A	FS	36
1902385	OW-05(16)	ATR-OW-5 (16)-G020619	2/6/2019	GW	1902385-32A	FS	36
1902385	OW-05(35)	ATR-OW-5 (35)-G020519	2/5/2019	GW	1902385-31A	FS	36
1902385	OW-05(54)	ATR-OW-5 (44)-G020619	2/6/2019	GW	1902385-33A	FS	36
1902385	OW-06(38)	ATR-OW-6 (38)-G020519	2/5/2019	GW	1902385-28A	FS	36
1902385	OW-06(38)	ATR-OW-6 (38)-G020519 - R	2/5/2019	GW	1902385-29A	FD	36
1902385	OW-06(63)	ATR-OW-6 (63)-G020519	2/5/2019	GW	1902385-27A	FS	36
1902385	QC	ATR-EB001-G020519	2/5/2019	BW	1902385-05A	EB	36
1902385	QC	ATR-EB002-G020619	2/6/2019	BW	1902385-21A	EB	36
1902385	QC	ATR-EB003 -G020719	2/7/2019	BW	1902385-35A	EB	36
1902385	QC	ATR-TB001-020719	2/7/2019	BW	1902385-25A	TB	36

Notes:
BW = blank water
EB = equipment blank
FD = field duplicate
FS = field sample
GW = groundwater
TB = trip blank

Prepared by: WCG 4/2/19
Checked by: JAR 4/10/19

TABLE 2 - QC LIMITS
DATA VALIDATION REPORT
FEBRUARY 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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
1902385	SW8260C	1902385-17A	2/7/2019	ATR-68 (32)-G020719	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-16A	2/7/2019	ATR-72 (32)-G020719	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-20A	2/6/2019	ATR-MW-14-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-10A	2/6/2019	ATR-MW-15-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-26A	2/5/2019	ATR-MW-17 -G020519	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-15A	2/7/2019	ATR-MW-20 (51)-G020719	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-09A	2/6/2019	ATR-MW-25 (16.4)-G020619	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-08A	2/6/2019	ATR-MW-25 (32.6)-G020619	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-07A	2/6/2019	ATR-MW-25 (82)-G020619	Vinyl chloride	2.8		2.8	J	LCS-L	UG/L
1902385	SW8260C	1902385-03A	2/5/2019	ATR-MW-26 (17.5)-G020519	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-02A	2/5/2019	ATR-MW-26 (28.8)-G020519	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-01A	2/5/2019	ATR-MW-26 (58)-G020519	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-30A	2/5/2019	ATR-MW-27 (18)-G020519	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-36A	2/7/2019	ATR-MW-59 (29) -G020719	Chloroethane	2.1		2.1	J	CCV%D	UG/L
1902385	SW8260C	1902385-36A	2/7/2019	ATR-MW-59 (29) -G020719	Chloromethane	1	U	1	UJ	CCV%D	UG/L
1902385	SW8260C	1902385-36A	2/7/2019	ATR-MW-59 (29) -G020719	Vinyl chloride	1	U	1	UJ	CCV%D	UG/L
1902385	SW8260C	1902385-24A	2/6/2019	ATR-MW-59 (46)-G020619	1,1-Dichloroethene	12		12	J	MS-H	UG/L
1902385	SW8260C	1902385-24A	2/6/2019	ATR-MW-59 (46)-G020619	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-24A	2/6/2019	ATR-MW-59 (46)-G020619	trans-1,2-Dichloroethene	7		7	J	MS-H	UG/L
1902385	SW8260C	1902385-24A	2/6/2019	ATR-MW-59 (46)-G020619	Vinyl chloride	1600		1,600	J	LCS-L	UG/L
1902385	SW8260C	1902385-13A	2/6/2019	ATR-MW-6C-G020619	Vinyl chloride	2.1		2.1	J	LCS-L	UG/L
1902385	SW8260C	1902385-14A	2/6/2019	ATR-MW-6C-G020619-R	Vinyl chloride	2.3		2.3	J	LCS-L	UG/L
1902385	SW8260C	1902385-34A	2/7/2019	ATR-MW-81 (27) -G020719	Chloroethane	1.2		1.2	J	CCV%D	UG/L
1902385	SW8260C	1902385-34A	2/7/2019	ATR-MW-81 (27) -G020719	Chloromethane	1	U	1	UJ	CCV%D	UG/L
1902385	SW8260C	1902385-34A	2/7/2019	ATR-MW-81 (27) -G020719	Vinyl chloride	46		46	J	CCV%D	UG/L
1902385	SW8260C	1902385-23A	2/6/2019	ATR-MW-82 (58)-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-22A	2/6/2019	ATR-OW-1 (39)-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-12A	2/6/2019	ATR-OW-2 (33)-G020619	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-11A	2/6/2019	ATR-OW-2 (53)-G020619	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-19A	2/6/2019	ATR-OW-3 (35)-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
1902385	SW8260C	1902385-18A	2/6/2019	ATR-OW-3 (55)-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-06A	2/5/2019	ATR-OW-4 (35)-G020519	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-04A	2/5/2019	ATR-OW-4 (54)-G020519	Carbon tetrachloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-32A	2/6/2019	ATR-OW-5 (16)-G020619	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-31A	2/5/2019	ATR-OW-5 (35)-G020519	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-33A	2/6/2019	ATR-OW-5 (44)-G020619	Chloroethane	1	U	1	UJ	CCV%D	UG/L
1902385	SW8260C	1902385-33A	2/6/2019	ATR-OW-5 (44)-G020619	Chloromethane	1	U	1	UJ	CCV%D	UG/L
1902385	SW8260C	1902385-33A	2/6/2019	ATR-OW-5 (44)-G020619	Vinyl chloride	1	U	1	UJ	CCV%D	UG/L
1902385	SW8260C	1902385-28A	2/5/2019	ATR-OW-6 (38)-G020519	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-29A	2/5/2019	ATR-OW-6 (38)-G020519 - R	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L
1902385	SW8260C	1902385-27A	2/5/2019	ATR-OW-6 (63)-G020519	Vinyl chloride	1	U	1	UJ	LCS-L	UG/L

U = not detected, value is the detection limit
J = value is estimated
UG/L = microgram per liter

CCV%D = continuing calibration percent difference exceeds QC limit
MS-H = matrix spike recovery high
LCS-L = LCS recovery low

FD = field duplicate precision goal not met

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-14		MW-15		MW-17		MW-20(51)	
			Date Collected:	02/06/19		02/06/19		02/05/19		02/07/19	
			Field Sample ID:	ATR-MW-14-G020619		ATR-MW-15-G020619		ATR-MW-17 -G020519		ATR-MW-20 (51)-G020719	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	82		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	13		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	UJ
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		1	U	21		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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-14		MW-15		MW-17		MW-20(51)	
			Date Collected:	02/06/19		02/06/19		02/05/19		02/07/19	
			Field Sample ID:	ATR-MW-14-G020619		ATR-MW-15-G020619		ATR-MW-17 -G020519		ATR-MW-20 (51)-G020719	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	42		1	U
SW8260C	UG/L	Vinyl chloride		1	UJ	1	UJ	1	UJ	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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-25(16.4)		MW-25(32.6)		MW-25(82)		MW-26(17.5)	
			Date Collected:	02/06/19		02/06/19		02/06/19		02/05/19	
			Field Sample ID:	ATR-MW-25 (16.4)-G020619		ATR-MW-25 (32.6)-G020619		ATR-MW-25 (82)-G020619		ATR-MW-26 (17.5)-G020519	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	UJ	1	UJ	1	U	1	UJ
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	1.4		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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-25(16.4)		MW-25(32.6)		MW-25(82)		MW-26(17.5)	
			Date Collected:	02/06/19		02/06/19		02/06/19		02/05/19	
			Field Sample ID:	ATR-MW-25 (16.4)-G020619		ATR-MW-25 (32.6)-G020619		ATR-MW-25 (82)-G020619		ATR-MW-26 (17.5)-G020519	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	2.8	J	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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-26(28.8)		MW-26(58.8)		MW-27(18)		MW-59(29)	
			Date Collected:	02/05/19		02/05/19		02/05/19		02/07/19	
			Field Sample ID:	ATR-MW-26 (28.8)-G020519		ATR-MW-26 (58)-G020519		ATR-MW-27 (18)-G020519		ATR-MW-59 (29) -G020719	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	UJ	1	UJ	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	2.1	J
SW8260C	UG/L	Chloroform		1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane		1	U	1	U	1	U	1	UJ
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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-26(28.8)		MW-26(58.8)		MW-27(18)		MW-59(29)	
			Date Collected:	02/05/19		02/05/19		02/05/19		02/07/19	
			Field Sample ID:	ATR-MW-26 (28.8)-G020519		ATR-MW-26 (58)-G020519		ATR-MW-27 (18)-G020519		ATR-MW-59 (29) -G020719	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
SW8260C	UG/L	Ethylbenzene		1	U	1	U	1	U	2.2	
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	2.4	
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	UJ	1	UJ
SW8260C	UG/L	Xylene, o		1	U	1	U	1	U	2.2	
SW8260C	UG/L	Xylenes (m&p)		2	U	2	U	2	U	4.1	
SW8260C	UG/L	Xylenes, Total		3	U	3	U	3	U	6.3	

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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-59(46)		MW-68(32)		MW-6C		MW-6C	
			Date Collected:	02/06/19		02/07/19		02/06/19		02/06/19	
			Field Sample ID:	ATR-MW-59 (46)-G020619		ATR-68 (32)-G020719		ATR-MW-6C-G020619		ATR-MW-6C-G020619-R	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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		12	J	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	13		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	16		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	UJ	1	UJ	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		1200		4.9		4.9		4.5	
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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-59(46)		MW-68(32)		MW-6C		MW-6C	
			Date Collected:	02/06/19		02/07/19		02/06/19		02/06/19	
			Field Sample ID:	ATR-MW-59 (46)-G020619		ATR-68 (32)-G020719		ATR-MW-6C-G020619		ATR-MW-6C-G020619-R	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
SW8260C	UG/L	Ethylbenzene		5		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		6.9		1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene		7	J	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		1600	J	35		2.1	J	2.3	J
SW8260C	UG/L	Xylene, o		3.3		1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)		5.8		2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total		9.1		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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-72(32)		MW-81(27)		MW-82(58)		OW-01(39)	
			Date Collected:	02/07/19		02/07/19		02/06/19		02/06/19	
			Field Sample ID:	ATR-72 (32)-G020719		ATR-MW-81 (27) -G020719		ATR-MW-82 (58)-G020619		ATR-OW-1 (39)-G020619	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	UJ	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene		1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane		1	U	1.2	J	1	U	1	U
SW8260C	UG/L	Chloroform		1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane		1	U	1	UJ	1	U	1	U
SW8260C	UG/L	cis-1,2-Dichloroethene		1		38		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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	MW-72(32)		MW-81(27)		MW-82(58)		OW-01(39)	
			Date Collected:	02/07/19		02/07/19		02/06/19		02/06/19	
			Field Sample ID:	ATR-72 (32)-G020719		ATR-MW-81 (27) -G020719		ATR-MW-82 (58)-G020619		ATR-OW-1 (39)-G020619	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
SW8260C	UG/L	Ethylbenzene		1	U	1.6		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		1	U	8.6		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	46	J	1	UJ	1	UJ
SW8260C	UG/L	Xylene, o		1	U	1.1		1	U	1	U
SW8260C	UG/L	Xylenes (m&p)		2	U	3.1		2	U	2	U
SW8260C	UG/L	Xylenes, Total		3	U	4.2		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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	OW-02(33)		OW-02(53)		OW-03(35)		OW-03(55)	
			Date Collected:	02/06/19		02/06/19		02/06/19		02/06/19	
			Field Sample ID:	ATR-OW-2 (33)-G020619		ATR-OW-2 (53)-G020619		ATR-OW-3 (35)-G020619		ATR-OW-3 (55)-G020619	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	14	
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	UJ	1	UJ	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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	OW-02(33)		OW-02(53)		OW-03(35)		OW-03(55)	
			Date Collected:	02/06/19		02/06/19		02/06/19		02/06/19	
			Field Sample ID:	ATR-OW-2 (33)-G020619		ATR-OW-2 (53)-G020619		ATR-OW-3 (35)-G020619		ATR-OW-3 (55)-G020619	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	UJ	1	UJ
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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	OW-04(35)		OW-04(54)		OW-05(16)		OW-05(35)	
			Date Collected:	02/05/19		02/05/19		02/06/19		02/05/19	
			Field Sample ID:	ATR-OW-4 (35)-G020519		ATR-OW-4 (54)-G020519		ATR-OW-5 (16)-G020619		ATR-OW-5 (35)-G020519	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	6.4		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	UJ	1	UJ	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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	OW-04(35)		OW-04(54)		OW-05(16)		OW-05(35)	
			Date Collected:	02/05/19		02/05/19		02/06/19		02/05/19	
			Field Sample ID:	ATR-OW-4 (35)-G020519		ATR-OW-4 (54)-G020519		ATR-OW-5 (16)-G020619		ATR-OW-5 (35)-G020519	
			Type:	FS		FS		FS		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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		1.7		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	UJ	1	UJ
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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	OW-05(54)		OW-06(38)		OW-06(38)		OW-06(63)	
			Date Collected:	02/06/19		02/05/19		02/05/19		02/05/19	
			Field Sample ID:	ATR-OW-5 (44)-G020619		ATR-OW-6 (38)-G020519		ATR-OW-6 (38)-G020519 - R		ATR-OW-6 (63)-G020519	
			Type:	FS		FS		FD		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	180	
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	12	
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	UJ	1	U	1	U	1	U
SW8260C	UG/L	Chloroform		1	U	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	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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	OW-05(54)		OW-06(38)		OW-06(38)		OW-06(63)	
			Date Collected:	02/06/19		02/05/19		02/05/19		02/05/19	
			Field Sample ID:	ATR-OW-5 (44)-G020619		ATR-OW-6 (38)-G020519		ATR-OW-6 (38)-G020519 - R		ATR-OW-6 (63)-G020519	
			Type:	FS		FS		FD		FS	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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	UJ	1	UJ	1	UJ
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
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	QC		QC		QC		QC	
			Date Collected:	02/05/19		02/06/19		02/07/19		02/07/19	
			Field Sample ID:	ATR-EB001-G020519		ATR-EB002-G020619		ATR-EB003 -G020719		ATR-TB001-020719	
			Type:	EB		EB		EB		TB	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
FEBRUARY 2019 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

			SDG:	1902385		1902385		1902385		1902385	
			Location:	QC		QC		QC		QC	
			Date Collected:	02/05/19		02/06/19		02/07/19		02/07/19	
			Field Sample ID:	ATR-EB001-G020519		ATR-EB002-G020619		ATR-EB003 -G020719		ATR-TB001-020719	
			Type:	EB		EB		EB		TB	
Method	**Unit**	**Parameter**		**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**	**Final Result**	**Final Qual**
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