RJR
500 Ridge Road, Ward, Colorado 80481 | 303-459-0164

March 6, 2018

Mr. Michael Schmoller
Wisconsin Department of Natural Resources-South Central Region
3911 Fish Hatchery Road
Fitchburg, WI 53711

Subject: 2017 Semi-Annual (November event) Groundwater Sampling Letter Report
Trent Tube Plant No. 1 2188 Church St., East Troy, WI (Site)
FID # 265097030; BRRTS NO. 02-65-245827; U.S. EPA ID WID 006097281

Dear Mr. Schmoller:

On behalf of EnPro Holdings, Inc. (EnPro Holdings), RJRudy LLC (RJR) is submitting this Semi-Annual Groundwater Sampling Report for the above-referenced Site, which includes descriptions and results of groundwater monitoring activities performed on November 20-21, 2017, and phytoremediation system monitoring activities performed on October 20, 2017. This report was prepared to comply with requirements of s. NR 724.13(3) of the Wisconsin Administrative Code (WAC).

PUMP AND TREAT SYSTEM PERFORMANCE MONITORING AND RESULTS

RJR completed semi-annual groundwater monitoring field activities at the Site in November 2017. The field activities included measurement of groundwater levels, collection of groundwater samples, and quantification of field water quality parameters from eighteen monitoring wells[1] across the Site. This event did not include samples from any of the recovery wells. The Groundwater Extraction and Treatment System (GETS) continues to operate normally and effluent concentrations have been below permitted limits. EnPro Holdings continues to submit the required discharge monitoring reports to the Wisconsin Department of Natural Resources (WDNR) on a timely basis.

Water Level Measurements

Prior to well purging and sampling, RJR measured groundwater levels using a Solinst™ water level instrument. RJR decontaminated all equipment between sampling of each well location. RJR collected surface water elevations from measurements that were obtained directly from staff gauge locations SG-A and SG-9A (I) (see Attachment A). A groundwater elevation map based on water level measurements is provided in Attachment A as Figure 1.

Survey

On November 15, 2017, Jacob Tetzlaff of LandTech Surveying performed a survey of all monitoring wells, observation points, recovery wells, staff gauges, and the locations of the two recovery sumps by the former flume area. This updated survey information is provided in Attachment A, Table A.1.

[1] Prior to the 2016 semi-annual event, twenty wells were sampled. However, two of the wells could not be sampled in 2016 or 2017: MW-6 was dry and MW-23 could not be located. After multiple attempts to locate MW-23 using historical data and physical exploration, RJR has determined that MW-23 is lost/abandoned. MW-23 will not be included in subsequent sampling events.

Groundwater Sampling
Following the collection of water level measurements, RJR purged monitoring wells until a minimum of four well casing volumes were removed or the well went dry. RJR conducted groundwater sampling in accordance with chapter NR 140 WAC requirements and the Groundwater Sampling Field Manual (WDNR, 1996). Attachment B contains results summary tables, the associated PACE laboratory reports, and Chain of Custody reports for groundwater monitoring wells sampled during this semi-annual groundwater monitoring event.

Following well purging, RJR collected groundwater samples and submitted the samples to Pace Analytical Services, Inc. 1241 Bellevue Street - Suite 9 Green Bay, Wisconsin 54302 (WDNR ID No. 405132750). The groundwater samples were analyzed for chlorinated volatile organic compounds (CVOCs) (EPA-SW846-8260).

For Quality Assurance/Quality Control (QA/QC), two duplicate samples and one trip blank were analyzed for CVOCs. Equipment blanks were not collected because RJR used new disposable bailers or laboratory-supplied transfer containers to sample at each monitoring location. QA/QC samples were processed and handled in the same manner as actual samples. Concentrations detected in duplicate samples were similar to concentrations detected in the corresponding original samples, and the trip blank results showed no detected constituents.

Field Water Quality Measurements
Following purging and sampling, RJR measured field water quality parameters using a YSI 556 MPS Multimeter water quality meter. Water quality parameters included dissolved oxygen (DO), oxidation-reduction potential (ORP), temperature, pH, and specific conductivity. These measurements are included on forms provided in Attachment B.

Groundwater Analytical Results
Table B.1 in Attachment B presents the results of the groundwater sampling. Table B.2 in Attachment B provides a comparison of semi-annual results since May 2015. General observations from these November 2017 groundwater results are as follows:

- The following VOCs were detected - chloroethane, 1,1-dichloroethane (DCE), 1,1-dichloroethene, cis-1,2-DCE, trans-1,2-DCE, vinyl chloride and naphthalene. These compounds have been consistently detected above WDNR standards in monitoring wells 02, 04, 07R, 12, 15, 16, 17R, 19, 37R and Observation Points 02, 03, and 09 in past sampling events, however have decreased in concentration over time.
- Most on-site monitoring wells show stabilization or a decrease in concentrations of CVOCs. Historical TCE concentrations in MW-2 range from 8890 µg/L (May 2013) to 7110 µg/L (June 2016). The results indicate that the GETS and phytoremediation system (discussed below) are continuing to effectively remediate the Site.

Except for MW-19, all wells south of Honey Creek (MW-20, MW-25, MW-27 and MW-29) continue to show no detections of CVOCs in any samples. MW-19 had a detection of vinyl chloride of 0.26 µg/L J (November 2017), down from 10.3 µg/L in June 2017. Furthermore, a “J” value qualifier means that this is an estimated concentration at or above the Limit of Detection and below the Limit of Quantification thus this vinyl chloride may not be present at all at this location.

PHYTOREMEDIATION SYSTEM MONITORING AND RESULTS

RJR collected tree core samples from 29 trees on October 20, 2017. All cores were analyzed at the Utah Water Level Research Laboratory (UWRL) for TCE and several other CVOCs. The approximate location of the trees sampled is shown in Figure 2 of Attachment C. RJR conducted this tree core sampling following the methodology described in the May 2016 Phytoremediation Monitoring and Maintenance Plan and the 2017 Remediation Site Operation, Maintenance, Monitoring & Optimization Report. RJR sampled the same 29 trees twice per year: once in early June and once in October.

Attachment C includes all October 2017 physical tree analytical and circumference data. RJR collected core samples at an average of 42 cm above the ground surface and noted the circumference of each tree at the sample location (Note: Tree 029 is a cottonwood and has a larger diameter than the poplars). Cores were generally collected from trees with the largest trunk circumferences that were located near groundwater monitoring wells. Table C.1 provides a summary of CVOC analyte ranges for this event and the previous three core sampling events and the number of trees with specific detections.

Tree Core Analytical Results

Figure 2 shows TCE tree core data for October 2017 and the three previous sampling events. Detailed results for each of the 29 trees that were sampled are presented in Table C.2 (June/October 2016 and June 2017). RJR collected quality control samples (two trip blanks and duplicates) during the October 2017 event. The trip blanks were non-detect for all constituents. The CVOC concentrations detected in duplicate samples were similar to CVOC concentrations detected in the corresponding original samples. Detailed results including tree sample trunk height, circumference, duplicate/trip blank, and EQL limits are provided in Attachment C.

The October 2017 tree core data show detectable concentrations of TCE in all 29 tree core samples. In general, higher tree core sample TCE concentrations correlate with elevated TCE groundwater plume concentrations detected in nearby wells. Since June of 2016, noticeable growth has occurred in all trees (Table C.3). The results indicate that the trees are growing and continuing to take up TCE, which is in turn remediating and inhibiting the expansion of the contaminant groundwater plume.

Recommendations

As defined in the Phytoremediation Monitoring and Maintenance Plan, RJR performed a June and an October tree core sampling in both 2016 and 2017. Based on the consistency of the results in the prior four sampling events, RJR recommends that the tree core sampling schedule be modified from two times per year to once per year in coordination with the annual groundwater sampling event in June. EnPro Holdings requests WDNR's written approval of this change to the sampling schedule.

Please call me at 303-459-0164 or email at rickrudy@rjrudyllc.com if you have any comments or questions regarding this submittal.

Sincerely,
RJR

Richard J. Rudy, PG
Project Director

cc: Benne Hutson, EnPro Industries, Inc.
Charles Merrill, Husch Blackwell LLP
Phillip Bower, Husch Blackwell LLP

ATTACHMENTS

Attachment A - Groundwater Elevation Data
Figure 1 - Groundwater Elevation Map
Table A.1 - LandTech Survey Data
Table A.2 - TT-1 November 2017 Sitewide Water Levels

Attachment B - Groundwater Analytical Data
Table B.1 - RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table
Table B.2 - RJR Semi-Annual Groundwater Monitoring Wells VOC Historical Comparison Table
PACE Laboratory Data
Groundwater Well Sample Sheets and Field Documents

Attachment C - Phytoremediation
Figure 2 Locations of Trees Sampled and Historical TCE
Table C.1 Tree Core Analytical Summary June 2016 - Oct 2017
Table C.2 Tree Core Sample Results June 2016 - Oct 2017
Table C.3 Tree Growth Comparison June 2016 - Oct 2017
Table C.4 October 2017 UWRL Tree Core Sample Laboratory Report

Attachment A - Groundwater Elevation Data

Figure 1 - Water Level Elevation Map

Table A.1 - LandTech Survey Data

Table A.2 -TT-1 October 2017 Sitewide Water Levels

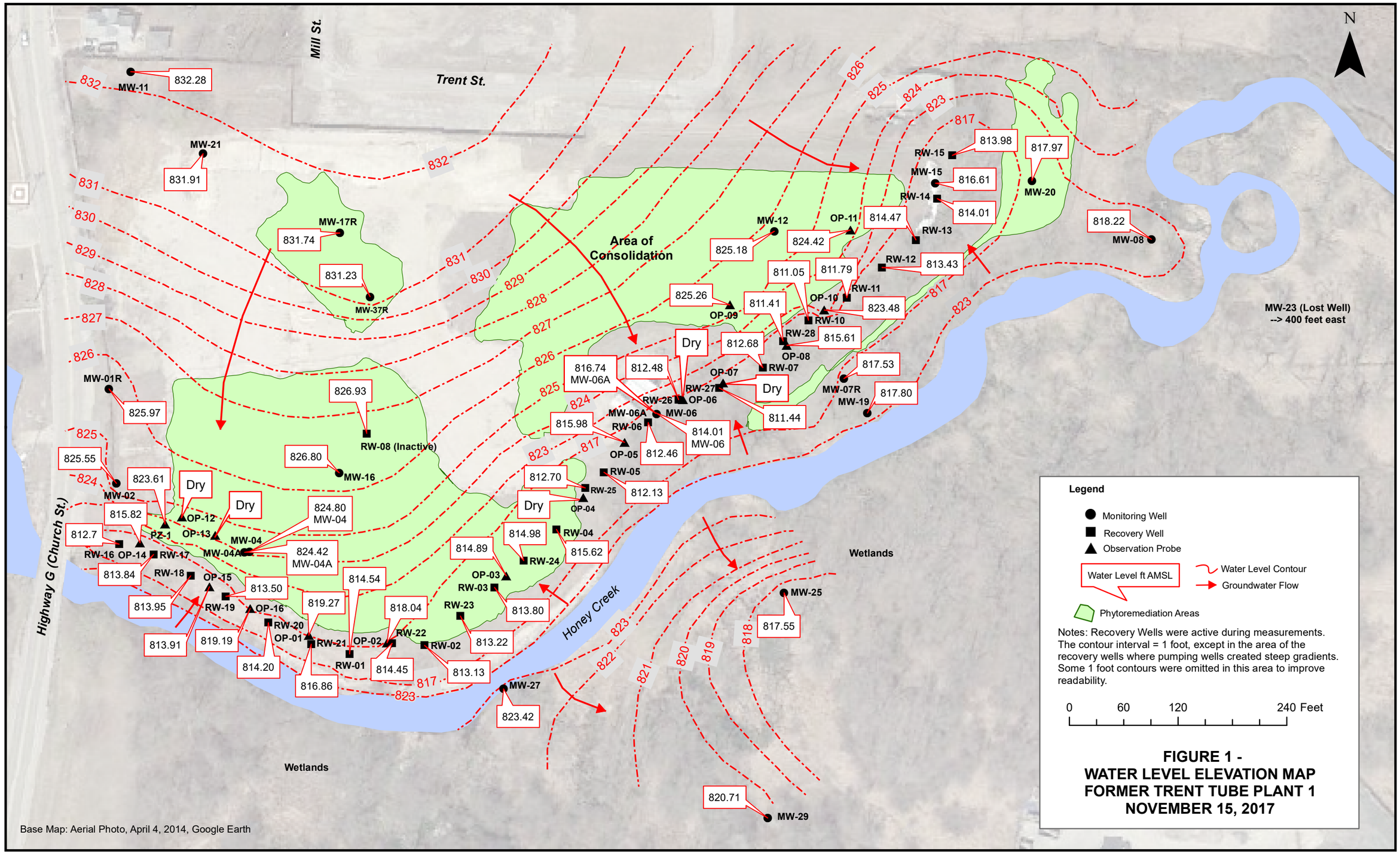
N
Mill St.
Trent St.
Area of Consolidation
Wetlands
Wetlands
Honey Creek
Highway G (Church St.)
MW-11 832.28
MW-21 831.91
MW-17R 831.74
831.23 MW-37R
MW-01R 825.97
825.55 MW-02
823.61
826.93 RW-08 (Inactive)
826.80 MW-16
815.82
812.7 RW-16
OP-14
PZ-1
OP-12
OP-13
MW-04
MW-04A
824.80 MW-04
824.42 MW-04A
RW-17
813.84 RW-18
OP-15
813.95
813.91
RW-19
819.19
OP-16
813.50
814.20
RW-20
OP-01
819.27
816.86
RW-21
814.54
RW-01
814.45
OP-02
818.04
RW-22
RW-02
813.13
RW-23
813.22
OP-03
RW-03
813.80
814.89
814.98 RW-24
RW-04
815.62
812.70
RW-25
812.13
OP-04
OP-05
812.46
RW-05
815.98
RW-06
812.48
816.74 MW-06A
MW-06A
MW-06
814.01 MW-06
RW-26
OP-06
RW-27
OP-07
811.44
812.68 RW-07
RW-28
815.61
OP-08
811.41
OP-10
RW-10
823.48
825.26 OP-09
811.05
811.79
RW-11
825.18 MW-12
824.42
OP-11
814.47
RW-13
RW-12
813.43
RW-14
814.01
RW-15
813.98
MW-15 816.61
817.97 MW-20
818.22 MW-08
MW-23 (Lost Well)
--> 400 feet east
817.53 MW-07R
MW-19
817.80
MW-25
817.55
MW-27
823.42
820.71 MW-29
Dry
Dry
Dry
Dry
Base Map: Aerial Photo, April 4, 2014, Google Earth
Legend
Monitoring Well
Recovery Well
Observation Probe
Water Level ft AMSL
Water Level Contour
Groundwater Flow
Phytoremediation Areas
Notes: Recovery Wells were active during measurements. The contour interval = 1 foot, except in the area of the recovery wells where pumping wells created steep gradients. Some 1 foot contours were omitted in this area to improve readability.
0 60 120 240 Feet
FIGURE 1 -
WATER LEVEL ELEVATION MAP
FORMER TRENT TUBE PLANT 1
NOVEMBER 15, 2017

Table A.1
LandTech Surveying 17144 Test Well Locations and Elevations 11/16/2017

Coordinates are grid North of the Wisconsin County Coordinate System, Walworth County Zone NAD 83 (WISCORS 2017).					
Vertical Datum is NAVD 88 (Geoid 12a)					
XYZ=Ground Elevation					
POINT NUMBER	**NORTH**	**EAST**	**ELEVATION**	**DESCRIPTION**	**NOTES**
2000	405364.09	800480.53	838.54	OP-9	
2001	405364.02	800480.98	836.39	XYZ	
2002	405446.12	800528.69	837.68	XYZ	
2003	405446.48	800528.43	839.27	MW-12	
2004	405448.70	800612.08	839.17	OP-11	
2005	405449.00	800612.49	837.06	XYZ	
2006	405502.58	800705.42	830.24	XYZ	
2007	405502.78	800705.46	832.63	MW-15	
2008	405534.61	800723.78	827.83	RW-15	
2009	405533.46	800723.49	829.07	XYZ	
2010	405507.10	800812.17	821.53	XYZ	
2011	405507.21	800812.27	823.72	MW-20	
2012	405444.78	800945.35	819.26	XYZ	
2013	405444.49	800945.69	821.61	MW-8	
2014	405485.23	800708.91	829.31	RW-14	
2015	405485.54	800707.58	830.57	XYZ	
2016	405439.54	800685.16	831.47	XYZ	
2017	405439.24	800685.96	830.23	RW-13	
2018	405408.43	800648.17	829.34	XYZ	
2019	405407.22	800648.52	827.86	RW-12	
2020	405373.93	800609.96	829.24	XYZ	
2021	405374.47	800611.04	828.09	RW-11	
2022	405360.31	800585.10	830.07	XYZ	
2023	405359.96	800585.09	832.72	OP-10	
2024	405348.44	800568.10	829.50	XYZ	
2025	405348.95	800569.73	828.79	RW-10	
2026	405323.93	800538.62	828.59	RW-28	
2027	405325.21	800540.39	829.65	XYZ	
2028	405320.32	800544.67	828.90	XYZ	
2029	405319.91	800544.40	830.25	OP-8	
2030	405295.39	800518.57	830.22	XYZ	
2031	405294.22	800517.33	827.94	RW-7	
2032	405273.38	800471.78	826.95	RW-27	
2033	405272.10	800470.64	827.34	XYZ	

Table A.1
LandTech Surveying 17144 Test Well Locations and Elevations 11/16/2017

2034	405277.98	800475.06	828.89	XYZ	
2035	405277.90	800475.26	831.71	OP-7	
2036	405284.94	800608.24	821.97	XYZ	
2037	405284.17	800608.71	824.44	MW-7R	
2038	405258.39	800426.49	829.75	XYZ	
2039	405257.50	800425.67	829.27	RW-26	
2040	405258.42	800431.10	829.77	XYZ	
2041	405257.89	800431.54	830.78	OP-6	
2042	405247.68	800404.63	830.99	XYZ	
2043	405247.33	800404.80	833.29	MW-6A	
2044	405241.95	800402.67	833.21	MW-6	
2045	405242.23	800402.20	831.60	XYZ	
2046	405233.82	800392.68	829.65	RW-6	
2047	405232.59	800393.11	831.32	XYZ	
2048	405210.11	800367.38	831.63	XYZ	
2049	405209.88	800367.54	833.12	OP-5	
2050	405176.90	800345.21	831.89	XYZ	
2051	405177.43	800346.75	830.34	RW-5	
2052	405157.61	800324.75	831.12	RW-25	
2053	405159.17	800325.16	832.77	XYZ	
2054	405148.46	800323.07	833.20	XYZ	
2055	405147.99	800323.25	836.07	OP-4	
2056	405247.31	800634.97	818.85	XYZ	
2057	405247.68	800635.35	822.59	MW-19	
2058	405111.39	800293.14	830.40	RW-4	
2059	405112.65	800293.75	831.46	XYZ	
2060	405077.45	800258.53	831.12	XYZ	
2061	405077.90	800259.82	830.48	RW-24	
2062	405060.36	800239.66	830.64	XYZ	
2063	405060.43	800240.08	831.29	OP-3	
2064	405047.36	800226.71	831.02	XYZ	
2065	405046.29	800225.75	830.35	RW-3	
2066	405015.10	800189.68	830.46	XYZ	
2067	405013.82	800189.11	830.04	RW-23	
2068	404982.00	800150.70	829.60	XYZ	
2069	404981.80	800152.07	829.26	RW-2	
2070	404983.74	800114.74	833.67	XYZ	
2071	404983.53	800113.58	832.45	RW-22	
2072	404983.86	800109.04	833.95	XYZ	

Table A.1
LandTech Surveying 17144 Test Well Locations and Elevations 11/16/2017

2073	404984.01	800108.62	836.69	OP-2	
2074	404971.01	800068.13	833.89	XYZ	
2075	404971.70	800069.52	831.94	RW-1	
2076	404990.64	800022.60	836.11	XYZ	
2077	404990.07	800022.91	839.55	OP-1	
2078	404981.13	800023.04	833.28	RW-21	
2079	404981.15	800025.37	834.30	XYZ	
2080	405003.85	799977.78	834.59	XYZ	
2081	405004.41	799976.06	833.98	RW-20	
2082	405019.31	799957.50	834.78	XYZ	
2083	405019.42	799957.00	837.99	OP-16	
2084	405030.76	799930.67	834.66	RW-19	
2085	405032.09	799930.22	835.73	XYZ	
2086	405042.47	799911.91	834.19	XYZ	
2087	405042.26	799911.30	838.51	OP-15	
2088	405053.97	799891.14	835.37	XYZ	
2089	405053.99	799889.29	834.55	RW-18	
2090	405077.78	799847.89	834.54	RW-17	
2091	405077.05	799849.72	835.60	XYZ	
2092	405089.51	799834.27	837.15	XYZ	
2093	405089.17	799834.41	837.86	OP-14	
2094	405087.51	799811.38	834.71	XYZ	
2095	405087.28	799813.06	833.66	RW-16	
2096	405081.91	799955.48	837.14	XYZ	
2097	405081.77	799955.76	838.97	MW-4	
2098	405081.10	799950.32	838.76	MW-4A	
2099	405081.26	799950.09	837.13	XYZ	
2100	405099.13	799917.29	837.49	XYZ	
2101	405099.21	799916.88	839.93	OP-13	
2102	405118.79	799880.53	840.09	OP-12	
2103	405118.83	799880.24	837.59	XYZ	
2104	405110.69	799861.82	837.40	XYZ	
2105	405110.39	799861.61	839.76	PZ-1	
2106	405258.87	799797.01	837.88	XYZ	
2107	405259.02	799797.09	839.95	MW-1R	
2108	405154.90	799807.30	836.80	MW-2	
2109	405154.60	799807.11	834.15	XYZ	
2110	405171.48	799637.37	829.81	SG-A	
2111	405036.01	799770.21	833.33	BRIDGE	

Table A.1
LandTech Surveying 17144 Test Well Locations and Elevations 11/16/2017

2112	405609.26	799814.58	844.61	XYZ	
2113	405608.88	799815.68	844.33	MW-11	
2114	405520.58	799896.21	837.16	XYZ	
2115	405520.37	799896.65	840.18	MW-21	
2116	405435.45	800048.95	839.24	MW-17R	
2117	405435.59	800048.86	836.96	XYZ	
2118	405365.89	800083.53	837.36	XYZ	
2119	405365.60	800083.78	839.41	MW-37R	
2120	405214.73	800082.57	836.79	XYZ	
2121	405214.56	800082.30	840.48	RW-8	
2122	405170.86	800052.99	837.29	XYZ	
2123	405170.59	800053.61	839.39	MW-16	
2124	405290.91	800065.29	839.40	WEST	SUMP FOR LOCATION
2125	405293.57	800076.65	836.94	EAST	SUMP FOR LOCATION
2126	405047.13	800547.29	823.63	MW-25	- 2.46' TO XYZ
2127	405047.21	800546.71	821.17	XYZ	COMPUTED ELEV.
2128	404935.25	800239.07	827.52	MW-27	
2129	404935.77	800238.87	824.54	XYZ	
2130	405594.53	801162.16	816.00	SG-9	
2131	404798.41	800533.04	825.61	XYZ	
2132	404800.33	800533.31	828.91	MW-29	

Table A.2
TT-1 November 2017 Sitewide Water Levels 11/15/2017

Well ID	DTW* (ft btoc)	DTB* (ft btoc)	Water Level Elevation (ft amsl)*
MW-01R	13.98	25.12	825.97
MW-02	11.25	18.95	825.55
MW-04	14.17	22.02	824.80
MW-04A	14.34	51.30	824.42
MW-06	19.20	19.59	814.01
MW-06A	16.55	35.33	816.74
MW-07R	6.91	13.83	817.53
MW-08	3.39	6.78	818.22
MW-11	12.05	18.50	832.38
MW-12	14.09	20.68	825.18
MW-15	16.02	18.92	816.61
MW-16	12.59	26.57	826.80
MW-17R	7.50	19.25	831.74
MW-19	4.79	10.39	817.80
MW-20	5.75	11.38	817.97
MW-21	8.27	17.46	831.91
MW-25	6.08	14.97	817.55
MW-27	4.06	14.10	823.42
MW-29	8.20	14.96	820.71
MW-37R	8.18	20.82	831.23
OP-01	20.28	24.10	819.27
OP-02	18.65	22.54	818.04
OP-03	16.40	19.50	814.89
OP-04	-	19.65	dry
OP-05	17.14	18.10	815.98
OP-06	-	12.72	dry/obstructed
OP-07	-	18.50	dry
OP-08	14.64	20.51	815.61
OP-09	13.28	27.20	825.26
OP-10	9.24	20.22	823.48
OP-11	14.75	24.98	824.42
OP-12	-	13.74	dry/obstructed
OP-13	-	7.29	obstruction
OP-14	15.05	22.04	815.82
OP-15	18.04	24.60	813.91
OP-16	18.80	24.52	819.19
RW-01	17.40	-	814.54

Well ID	DTW* (ft btoc)	DTB* (ft btoc)	Water Level Elevation (ft amsl)*
RW-02	16.13	-	813.13
RW-03	16.55	-	813.80
RW-04	14.78	-	815.62
RW-05	18.21	-	812.13
RW-06	17.19	-	812.46
RW-07	15.26	-	812.68
RW-08	13.55	16.40	826.93
RW-10	17.74	-	811.05
RW-11	16.30	-	811.79
RW-12	14.43	-	813.43
RW-13	15.76	-	814.47
RW-14	15.30	-	814.01
RW-15	13.85	-	816.61
RW-16	20.96	-	812.76
RW-17	20.70	-	813.74
RW-18	20.60	-	813.95
RW-19	21.16	-	813.50
RW-20	19.78	-	814.20
RW-21	16.42	-	816.86
RW-22	18.00	-	814.45
RW-23	16.82	-	813.22
RW-24	15.50	-	814.98
RW-25	18.42	-	812.70
RW-26	16.79	-	812.48
RW-27	15.51	-	811.44
RW-28	17.18	-	811.41
SG-A	-	-	dry
SG-6A (F)	-	-	destroyed
SG-9A (I)	-	1.97	-
PZ-01	16.15	21.32	823.61 (possible obstruction)
Bridge	13.85	-	-

Attachment B - Groundwater Analytical Data

Table B.1 - RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table

Table B.2 - RJR Semi-Annual Groundwater Monitoring Wells VOC Historical Comparison Table

PACE Laboratory Data

Groundwater Well Sample Field Sheets and Documents

Table B.1
RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table
Volatile Organic Compound Results

Explanation

TOC - Total Organic Carbon
NA - Not analyzed
NE - Not established
NR - Not reported
< - Analyte not detected at quantitation limit – not detected
J - Estimated
123 - Bold indicates exceedance of RCL
TOC - Total organic carbon
HP - Hydraulic probe
GP - Geoprobe
MW - Monitoring well
RW - Recovery well
All concentration values are in µg/kg unless noted.

Table B.1
RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table
Volatile Organic Compound Results

Well Name	Sample Date	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	n-Butylbenzene	sec-Butylbenzene	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	4-Chlorotoluene	1,2-Dibromo-3-chloropropane
PAL		*0.50*	*NE*	*NE*	*0.06*	*0.44*	*1.00*	*NE*	*NE*	*0.50*	*NE*	*80.00*	*0.60*	*3.00*	*NE*	*NE*	*0.02*
ES		**5.00**	**NE**	**NE**	**0.60**	**4.40**	**10.00**	**NE**	**NE**	**5.00**	**NE**	**400.00**	**6.00**	**30.00**	**NE**	**NE**	**0.20**
MW-01R	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
DUP-01 (MW-01R)	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-02	11/21/17	<20.00	<9.20	<13.60	<20.00	<20.00	<97.40	<20.00	<87.40	<20.00	<20.00	<15.00	<100.00	<20.00	<20.0	<8.50	<86.60
DUP-02 (MW-02)	11/21/17	<20.00	<9.20	<13.60	<20.00	<20.00	<97.40	<20.0	<87.40	<20.00	<20.00	<15.00	<100.00	<20.00	<20.00	<8.50	<86.60
MW-04	11/20/17	<5.00	<2.30	<3.40	<5.00	<5.00	<24.30	<5.00	<21.90	<5.00	<5.00	<3.70	<25.00	<5.00	<5.00	<2.10	<21.60
MW-07R	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-11	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-12	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	0.69 J	<2.50	<0.50	<0.50	<0.21	<2.20
MW-15	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-16	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-17R	11/20/17	<5.00	<2.30	<3.40	<5.00	<5.00	<24.30	<5.00	<21.90	<5.00	<5.00	<3.70	<25.00	<5.00	<5.00	<2.10	<21.60
MW-19	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-20	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-25	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-27	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-29	11/21/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
MW-37R	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
OP-02	11/20/17	<2.50	<1.20	<1.70	<2.50	<2.50	<12.20	<2.50	<10.90	<2.50	<2.50	<1.90	<12.50	<2.50	<2.50	<1.10	<10.80
OP-03	11/20/17	<20.00	<9.20	<13.60	<20.00	<20.00	<97.40	<20.00	<87.40	<20.00	<20.00	54.50	<100.00	<20.00	<20.00	<8.50	<86.60
OP-09	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20
TRIP BLANK	11/20/17	<0.50	<0.23	<0.34	<0.50	<0.50	<2.40	<0.50	<2.20	<0.50	<0.50	<0.37	<2.50	<0.50	<0.50	<0.21	<2.20

Table B.1
RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table
Volatile Organic Compound Results

Well Name	Sample Date	Dibromochloromethane	1,2-Dibromoethane (EDB)	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene
PAL		*6.00*	*0.005*	*NE*	*60.00*	*120.00*	*15.00*	*200.00*	*85.00*	*0.50*	*0.70*	*7.00*	*20.00*	*0.50*	*NE*	*NE*	*NE*
ES		**60.00**	**0.05**	**NE**	**600.00**	**600.00**	**75.00**	**1000.00**	**850.00**	**5.00**	**7.00**	**70.00**	**100.00**	**5.00**	**NE**	**NE**	**NE**
MW-01R	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	0.81 J	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
DUP-01 (MW-01R)	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	0.72 J	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-02	11/21/17	<20.00	<7.10	<17.10	<20.0	<20.0	<20.00	<9.00	<9.70	<6.70	<16.4	<10.2	<10.3	<9.30	<20.0	<19.40	<17.60
DUP-02 (MW-02)	11/21/17	<20.00	<7.10	<17.10	<20.0	<20.0	<20.00	<9.00	<9.70	<6.70	<16.4	<10.2	<10.3	<9.30	<20.0	<19.40	<17.60
MW-04	11/20/17	<5.00	<1.80	<4.30	<5.00	<5.00	<5.00	<2.20	9.80 J	<1.70	<4.10	*52.10*	<2.60	<2.30	<5.00	<4.80	<4.40
MW-07R	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	0.25 J	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-11	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-12	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-15	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	8.10	<0.17	<0.41	*65.70*	0.46 J	<0.23	<0.50	<0.48	<0.44
MW-16	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	69.40	<0.17	*1.20*	*58.50*	0.60	<0.23	<0.50	<0.48	<0.44
MW-17R	11/20/17	<5.00	<1.80	<4.30	<5.00	<5.00	<5.00	<2.20	4.70	<1.70	<4.10	**482.00**	*45.20*	<2.30	<5.00	<4.80	<4.40
MW-19	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-20	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-25	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-27	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-29	11/21/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44
MW-37R	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	1.10	0.60 J	<0.23	<0.50	<0.48	<0.44
OP-02	11/20/17	<2.50	<0.89	<2.10	<2.50	<2.50	<2.50	<1.10	71.80	<0.84	**8.80**	**158.00**	8.60	<1.20	<2.50	<2.40	<2.20
OP-03	11/20/17	<20.00	<7.10	<17.1	<20.0	<20.00	<20.00	<9.00	*371.00*	<6.70	**222.00**	**1760.00**	16.20	<9.30	<20.0	<19.40	<17.60
OP-09	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	5.30	<0.17	<0.41	*24.10*	2.00	<0.23	<0.50	<0.48	<0.44
TRIP BLANK	11/20/17	<0.50	<0.18	<0.43	<0.50	<0.50	<0.50	<0.22	<0.24	<0.17	<0.41	<0.26	<0.26	<0.23	<0.50	<0.48	<0.44

Table B.1
RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table
Volatile Organic Compound Results

Well Name	Sample Date	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Diisopropyl ether	Ethylbenzene	Hexachloro-1,3-butadiene	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene Chloride	Methyl-tert-butyl ether	Naphthalene	o-Xylene	n-Propylbenzene	Styrene	tert-Butylbenzene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane
PAL		*0.04*	*0.04*	*NE*	*140.00*	*NE*	*NE*	*NE*	*0.50*	*12.00*	*10.00*	*NE*	*NE*	*10.00*	*NE*	*7.00*	*0.02*
ES		**0.40**	**0.40**	**NE**	**700.00**	**NE**	**NE**	**NE**	**5.00**	**60.00**	**100.00**	**NE**	**NE**	**100.00**	**NE**	**70.00**	**0.20**
MW-01R	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
DUP-01 (MW-01R)	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-02	11/21/17	<20.00	<9.20	<20.00	<20.00	<84.20	<5.70	<20.00	<9.30	<7.00	<100.00	<20.00	<20.00	<20.00	<7.20	<7.20	<10.00
DUP-02 (MW-02)	11/21/17	<20.00	<9.20	<20.00	<20.00	<84.20	<5.70	<20.00	<9.30	<7.00	<100.00	<20.00	<20.00	<20.00	<7.20	<7.20	<10.00
MW-04	11/20/17	<5.00	<2.30	<5.00	<5.00	<21.10	<1.40	<5.00	*4.00 J*	<1.70	<25.00	<5.00	<5.00	<5.00	<1.80	<1.80	<2.50
MW-07R	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-11	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-12	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-15	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	*28.10*	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-16	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-17R	11/20/17	<5.00	<2.30	<5.00	<5.00	<21.10	<1.40	<5.00	<2.30	<1.70	<25.0	<5.00	<5.00	<5.00	<1.80	<1.80	<2.50
MW-19	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-20	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-25	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-27	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-29	11/21/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
MW-37R	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
OP-02	11/20/17	<2.50	<1.10	<2.50	<2.50	<10.50	<0.72	<2.50	*3.60 J*	<0.87	<12.50	<2.50	<2.50	<2.50	<0.90	<0.90	<1.20
OP-03	11/20/17	<20.00	<9.20	<20.00	<20.00	<84.20	<5.70	<20.00	<9.30	<7.00	<100.00	<20.00	<20.00	<20.00	<7.20	<7.20	<10.00
OP-09	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25
TRIP BLANK	11/20/17	<0.50	<0.23	<0.50	<0.50	<2.10	<0.14	<0.50	<0.23	<0.17	<2.50	<0.50	<0.50	<0.50	<0.18	<0.18	<0.25

Table B.1
RJR TT-1 November 2017 Semi-Annual Groundwater Summary Table
Volatile Organic Compound Results

Well Name	Sample Date	Tetrachloroethene	Toluene	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylene
PAL		*0.50*	*160.00*	*NE*	*14.00*	*40.00*	*0.50*	*0.50*	*NE*	*12.00*	*NE*	*NE*	*0.02*	*NE*
ES		**5.00**	**800.00**	**NE**	**70.00**	**200.00**	**5.00**	**5.00**	**NE**	**60.00**	**NE**	**NE**	**0.20**	**NE**
MW-01R	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	0.37 J	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
DUP-01 (MW-	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	0.34 J	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-02	11/21/17	<20.00	<20.00	<85.30	<88.40	33.80 J	<7.90	**3370.00**	<7.40	<20.00	<20.00	<20.00	<7.00	<40.00
DUP-02 (MW-02)	11/21/17	<20.00	<20.00	<85.30	<88.40	29.10 J	<7.90	**2910.00**	<7.40	<20.00	<20.00	<20.00	<7.00	<40.00
MW-04	11/20/17	<5.00	<5.00	<21.30	<22.10	9.30 J	<2.00	**894.00**	<1.80	<5.00	<5.00	<5.00	<1.80	<10.00
MW-07R	11/20/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	0.33 J	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-11	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-12	11/20/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	**0.30 J**	<1.00
MW-15	11/20/17	<0.50	<0.50	<2.10	<2.20	8.00	<0.20	*1.50*	<0.18	<0.50	<0.50	<0.50	**16.20**	<1.00
MW-16	11/20/17	<0.50	<0.50	<2.10	<2.20	*72.10*	<0.20	**36.50**	<0.18	<0.50	<0.50	<0.50	**0.22**	<1.00
MW-17R	11/20/17	<5.00	<5.00	<21.30	<22.10	<5.00	<2.00	**958.00**	<1.80	<5.00	<5.00	<5.00	**34.50**	<10.00
MW-19	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	**0.26 J**	<1.00
MW-20	11/20/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-25	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-27	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-29	11/21/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
MW-37R	11/20/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	**10.90**	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00
OP-02	11/20/17	<2.50	<2.50	<10.70	<11.00	**264.00**	<0.99	**320.00**	<0.92	<2.50	<2.50	<2.50	**14.30**	<5.00
OP-03	11/20/17	<20.00	<20.00	<85.30	<88.40	**624.00**	<7.90	**2520.00**	<7.40	<20.00	<20.00	<20.00	**238.00**	<40.00
OP-09	11/20/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	**10.20**	<0.18	<0.50	<0.50	<0.50	**13.10**	<1.00
TRIP BLANK	11/20/17	<0.50	<0.50	<2.10	<2.20	<0.50	<0.20	<0.33	<0.18	<0.50	<0.50	<0.50	<0.18	<1.00

Table B.2
RJR Semi-Annual Groundwater Monitoring Wells
VOC Historical Comparison Table

Explanation

TOC - Total Organic Carbon
NA - Not analyzed
NE - Not established
NR - Not reported
< - Analyte not detected at quantitation limit - not detected
J - Estimated
123 - Bold indicates exceedance of RCL
TOC - Total organic carbon
HP - Hydraulic probe GP - Geoprobe
MW - Monitoring well
RW - Recovery well

All concentration values are in µg/kg unless noted.

Table B.2
RJR Semi-Annual Groundwater Monitoring Wells
VOC Historical Comparison Table

Sample Name	Collection Date	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylene
WDNR ES µg/L		**5.00**	**NE**	**NE**	**NE**	**5.00**	**400.00**	**6.00**	**30.00**	**850.00**	**5.00**	**7.00**	**70.00**	**100.00**	**NE**	**5.00**	**100.00**	**NE**	**100.00**	**5.00**	**800.00**	**200.00**	**5.00**	**5.00**	**480.00**	**480.00**	**0.20**	**2000.00**
WDNR PAL µg/L		*0.50*	*NE*	*NE*	*NE*	*0.50*	*80.00*	*0.60*	*3.00*	*85.00*	*0.50*	*0.70*	*7.00*	*20.00*	*NE*	*0.50*	*10.00*	*NE*	*10.00*	*0.50*	*160.00*	*40.00*	*0.50*	*0.50*	*96.00*	*96.00*	*0.02*	*400.00*
MW-01R	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	<0.24	<0.20	<0.25	<0.21	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	0.43 J	<0.17	<0.19	<0.19	0.24 J	<0.17	<0.17	<0.18	<0.58
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.56 J	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	0.80 J	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	06/20/17	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	3.30	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	*0.74*	<0.50	1.80	<0.20	*0.72*	<0.50	<0.50	<0.18	<1.00
	11/21/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.81 J	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	0.37 J	<0.50	<0.50	<0.18	<1.00
MW-02	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	2.42	<0.20	<0.25	*19.00*	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	4.45	<0.17	10.20	<0.19	**2810.00**	<0.17	<0.17	<0.18	<0.58
	6/22/2016	<0.25	<25.00	<25.00	<109.00	<25.00	<18.70	<125.00	<25.00	<12.10	<8.40	<20.50	<12.80	<12.80	<25.00	<11.60	<125.00	<25.00	<25.00	<25.00	<25.00	26.10 J	<9.90	**7110.00**	<25.00	<25.00	<8.80	<50.00
	11/10/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	2.50	<0.17	<0.41	0.38 J	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	*0.84 J*	<0.50	10.40	<0.20	**52.80**	<0.50	<0.50	<0.18	<1.00
	6/20/2017	<50.00	<50.00	<50.00	<219.00	<50.00	<37.50	<250.00	<50.00	<24.20	<16.80	<41.00	<25.60	<25.70	<50.00	<23.30	<250.00	<50.00	<50.00	<50.00	<50.00	<50.00	<19.70	**8570.00**	<50.00	<50.00	<17.60	<48.40
	11/21/2017	<20.00	<20.00	<20.00	<87.40	<20.00	<15.00	<100.00	<20.00	<9.70	<6.70	<16.40	<10.20	<10.30	<20.00	<9.30	<100.00	<20.00	<20.00	<20.00	<20.00	33.80 J	<7.90	**3370.00**	<20.00	<20.00	<7.00	<40.00
MW-04	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	4.03	<0.20	<0.25	*10.60*	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	**5.19**	<0.17	19.00	<0.19	**1780.00**	<0.17	<0.17	<0.18	<0.58
	6/22/2016	<2.00	<2.00	<2.00	<8.70	<2.00	<1.50	<10.00	<2.00	8.70	<0.67	<1.60	*21.80*	<1.00	<2.00	<0.93	<10.00	<2.00	<2.00	*2.40 J*	<2.00	7.20	<0.79	**717.00**	<2.00	<2.00	**1.60 J**	<4.00
	11/9/2016	<5.00	<5.00	<5.00	<21.90	<5.00	<3.70	<25.00	<5.00	2.50 J	<1.70	<4.10	5.10 J	<2.60	<5.00	<2.30	<25.00	<5.00	<5.00	<5.00	<5.00	11.80	<2.00	**1240.00**	<5.00	<5.00	<1.80	<10.00
	6/20/2017	<5.00	<5.00	<5.00	<21.90	<5.00	<3.70	<25.00	<5.00	<2.40	<1.70	<4.10	3.60	<2.60	<5.00	<2.30	<25.00	<5.00	<5.00	<5.00	<5.00	7.50	<2.00	**521.00**	<5.00	<5.00	<1.80	<4.80
	11/20/2017	<5.00	<5.00	<5.00	<21.90	<5.00	<3.70	<25.00	<5.00	9.80 J	<1.70	<4.10	*52.10*	<2.60	<5.00	*4.00 J*	<25.00	<5.00	<5.00	<5.00	<5.00	9.30 J	<2.00	**894.00**	<5.00	<5.00	<1.80	<10.00
MW-07R	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	1.32	<0.20	<0.25	0.23	<0.23	<0.17	<0.22	<0.81	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	<0.20	<0.17	<0.17	**1.38**	<0.58
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.74 J	<0.17	<0.41	0.89 J	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**2.20**	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.39 J	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**1.00**	<1.00
	6/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	1.10	<0.17	<0.41	0.40	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**3.00**	<0.48
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.25 J	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	0.33 J	<0.50	<0.50	<0.18	<1.00
MW-11	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	<0.24	<0.20	<0.25	<0.21	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	<0.20	<0.17	<0.17	<0.18	<0.58
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	6/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<0.48
	11/21/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00

Table B.2
RJR Semi-Annual Groundwater Monitoring Wells
VOC Historical Comparison Table

Sample Name	Collection Date	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylene
WDNR ES µg/L		**5.00**	**NE**	**NE**	**NE**	**5.00**	**400.00**	**6.00**	**30.00**	**850.00**	**5.00**	**7.00**	**70.00**	**100.00**	**NE**	**5.00**	**100.00**	**NE**	**100.00**	**5.00**	**800.00**	**200.00**	**5.00**	**5.00**	**480.00**	**480.00**	**0.20**	**2000.00**
WDNR PAL µg/L		*0.50*	*NE*	*NE*	*NE*	*0.50*	*80.00*	*0.60*	*3.00*	*85.00*	*0.50*	*0.70*	*7.00*	*20.00*	*NE*	*0.50*	*10.00*	*NE*	*10.00*	*0.50*	*160.00*	*40.00*	*0.50*	*0.50*	*96.00*	*96.00*	*0.02*	*400.00*
MW-12	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	0.53	<0.23	<0.36	0.96	<0.20	<0.25	<0.21	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	<0.20	<0.17	<0.17	<0.18	<0.58
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	1.40	<2.50	<0.50	0.28 J	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**0.31 J**	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	1.70	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**0.25 J**	<1.00
	6/19/2017	<0.50	<0.50	<0.50	<2.20	<0.50	0.53	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**0.27**	<0.48
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	0.69 J	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**0.30 J**	<1.00
MW-15	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	4.36	<0.20	0.35 J	**160.00**	1.16	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	1.04	<0.19	0.46 J	<0.17	<0.17	**20.30**	<0.58
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	6.80	<0.17	<0.41	*59.90*	0.48 J	<0.50	<0.23	*58.70*	<0.50	<0.50	<0.50	<0.50	7.20	<0.20	*1.40*	<0.50	<0.50	**35.90**	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	2.10	<0.17	<0.41	**139.00**	1.00 J	<0.50	<0.23	*44.10*	<0.50	<0.50	<0.50	<0.50	3.00	<0.20	0.41 J	<0.50	<0.50	**73.40**	<1.00
	6/19/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	16.10	<0.17	<0.41	**11.00**	0.43	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	30.80	0.37	*3.50*	<0.50	<0.50	**1.70**	<0.48
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	8.10	<0.17	<0.41	*65.70*	0.46 J	<0.50	<0.23	*28.10*	<0.50	<0.50	<0.50	<0.50	8.00	<0.20	*1.50*	<0.50	<0.50	**16.20**	<1.00
MW-16	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	0.75	<0.23	<0.36	*167.00*	0.36 J	**27.00**	**223.00**	1.53	<0.17	<0.22	<0.21	<0.17	<0.28	*1.51*	<0.17	**1920.00**	*0.55*	**471.00**	<0.17	<0.17	**0.79**	<0.58
	6/22/2016	<5.00	<5.00	<5.00	<21.9	<5.00	<3.70	<25.00	<5.00	*380.00*	<1.70	*4.30 J*	**203.00**	4.90 J	<5.00	<2.30	<25.00	<5.00	<5.00	<5.00	<5.00	**662.00**	<2.00	**85.80**	<5.00	<5.00	<1.80	<10.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	22.70	<0.17	*1.70*	*22.40*	0.60 J	<0.50	<0.23	<2.50	<0.50	<0.50	*0.67 J*	<0.50	*92.90*	<0.20	**72.20**	<0.50	<0.50	*0.18 J*	<1.00
	6/19/2017	<5.00	<5.00	<5.00	<21.9	<5.00	<3.70	<25.00	<5.00	*346.00*	<1.70	**13.80**	**202.00**	<2.60	<5.00	<2.30	<25.00	<5.00	<5.00	<5.00	<5.00	**1450.00**	<2.00	**165.00**	<5.00	<5.00	<1.80	<4.80
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	69.40	<0.17	*1.20*	*58.50*	0.60	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	*72.10*	<0.20	**36.50**	<0.50	<0.50	**0.22**	<1.00
MW-17R	5/20/2015	*0.77*	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	8.79	<0.20	*2.92*	**214.00**	*37.70*	<0.17	<0.22	3.51 J	<0.17	1.25	**6.69**	0.81	<0.19	<0.19	**2460.00**	0.37 J	<0.17	**20.50**	<0.58
	6/22/2016	<2.00	<2.00	<2.00	< 8.70	<2.00	<1.50	<10.00	<2.00	4.50	<0.67	<1.60	**153.00**	18.90	<2.00	<0.93	<10.00	<2.00	<2.00	**4.70**	<2.00	<2.00	<0.79	**667.00**	<2.00	<2.00	**10.00**	<4.00
	11/10/2016	<2.50	<2.50	<2.50	<10.90	<2.50	<1.90	<12.50	<2.50	6.50	<0.84	<2.10	**158.00**	*41.90*	<2.50	<1.20	<12.50	<2.50	<2.50	*4.10 J*	<2.50	<2.50	<0.99	**964.00**	<2.50	<2.50	**21.80**	<5.00
	6/19/2017	<2.50	<2.50	<2.50	<10.90	<2.50	<1.90	<12.50	<2.50	4.00	<0.84	<2.10	**172.00**	*20.90*	<2.50	<1.20	<12.50	<2.50	<2.50	*3.70*	<2.50	<2.50	<0.99	**823.00**	<2.50	<2.50	**10.30**	2.24
	11/20/2017	<5.00	<5.00	<5.00	<21.90	<5.00	<3.70	<25.00	<5.00	4.70	<1.70	<4.10	**482.00**	*45.20*	<5.00	<2.30	<25.00	<5.00	<5.00	<5.00	<5.00	<5.00	<2.00	**958.00**	<5.00	<5.00	**34.50**	<10.00
MW-19	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	1.13	<0.20	<0.25	0.805	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	<0.20	<0.17	<0.17	**12.70**	<0.58
	6/21/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.67 J	<0.17	<0.41	0.27 J	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**3.30**	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**0.48 J**	<1.00
	6/19/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	0.54	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**2.30**	<0.48
	11/21/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	**0.26 J**	<1.00

Table B.2
RJR Semi-Annual Groundwater Monitoring Wells
VOC Historical Comparison Table

Sample Name	Collection Date	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylene
WDNR ES µg/L		**5.00**	**NE**	**NE**	**NE**	**5.00**	**400.00**	**6.00**	**30.00**	**850.00**	**5.00**	**7.00**	**70.00**	**100.00**	**NE**	**5.00**	**100.00**	**NE**	**100.00**	**5.00**	**800.00**	**200.00**	**5.00**	**5.00**	**480.00**	**480.00**	**0.20**	**2000.00**
WDNR PAL µg/L		*0.50*	*NE*	*NE*	*NE*	*0.50*	*80.00*	*0.60*	*3.00*	*85.00*	*0.50*	*0.70*	*7.00*	*20.00*	*NE*	*0.50*	*10.00*	*NE*	*10.00*	*0.50*	*160.00*	*40.00*	*0.50*	*0.50*	*96.00*	*96.00*	*0.02*	*400.00*
MW-20	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	<0.24	<0.20	<0.25	0.26 J	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	0.37 J	<0.19	<0.19	<0.20	<0.17	<0.17	<0.18	<0.58
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	6/19/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<0.48
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
MW-25	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	<0.24	<0.20	<0.25	<0.21	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	<0.20	<0.17	<0.17	<0.18	<0.58
	6/21/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	11/10/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	6/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<0.48
	11/21/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
MW-27	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	*8.02*	<0.24	<0.20	<0.25	0.24 J	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	<0.20	<0.17	<0.17	<0.18	<0.58
	6/21/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	0.27 J	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	11/10/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	6/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	0.33	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<0.48
	11/21/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
MW-29	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	<0.24	<0.20	<0.25	<0.21	<0.23	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	0.30 J	<0.17	<0.17	<0.18	<0.58
	6/21/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	11/10/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
	6/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<0.48
	11/21/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	<0.26	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.33	<0.50	<0.50	<0.18	<1.00
MW-37R	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	<0.24	<0.20	<0.25	3.56	1.84	<0.17	<0.22	<0.21	<0.17	<0.28	*0.51*	<0.17	<0.19	<0.19	**47.10**	<0.17	<0.17	<0.18	<0.58
	6/21/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	1.70	0.87 J	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**13.70**	<0.50	<0.50	<0.18	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	0.53 J	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**14.00**	<0.50	<0.50	<0.18	<1.00
	6/19/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	0.36	<0.26	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**6.20**	<0.50	<0.50	<0.18	<0.48
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	<0.24	<0.17	<0.41	1.10	0.60 J	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**10.90**	<0.50	<0.50	<0.18	<1.00

Table B.2
RJR Semi-Annual Groundwater Monitoring Wells
VOC Historical Comparison Table

Sample Name	Collection Date	Benzene	Bromodichloromethane	n-Butylbenzene	sec-Butylbenzene	Carbon tetrachloride	Chloroethane	Chloroform	Chloromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	p-Isopropyltoluene	Methylene Chloride	Naphthalene	n-Propylbenzene	Styrene	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl chloride	m&p-Xylene
WDNR ES µg/L		**5.00**	**NE**	**NE**	**NE**	**5.00**	**400.00**	**6.00**	**30.00**	**850.00**	**5.00**	**7.00**	**70.00**	**100.00**	**NE**	**5.00**	**100.00**	**NE**	**100.00**	**5.00**	**800.00**	**200.00**	**5.00**	**5.00**	**480.00**	**480.00**	**0.20**	**2000.00**
WDNR PAL µg/L		*0.50*	*NE*	*NE*	*NE*	*0.50*	*80.00*	*0.60*	*3.00*	*85.00*	*0.50*	*0.70*	*7.00*	*20.00*	*NE*	*0.50*	*10.00*	*NE*	*10.00*	*0.50*	*160.00*	*40.00*	*0.50*	*0.50*	*96.00*	*96.00*	*0.02*	*400.00*
OP-02	5/20/2015	<0.20	<0.17	<0.24	<0.17	<0.18	2.63	<0.23	<0.36	51.60	<0.20	**7.69**	**178.00**	8.31	<0.17	<0.22	<0.21	<0.17	<0.28	0.48 J	<0.17	*109.00*	0.30 J	**269.00**	<0.17	<0.17	**4.05**	<0.38
	6/22/2016	<1.00	<1.00	<1.00	< 4.40	<1.00	1.40 J	**12.70**	<1.00	38.60	<0.34	*5.70*	*66.00*	2.60	<1.00	*1.20 J*	<5.00	<1.00	<1.00	<1.00	<1.00	*99.20*	<0.39	**148.00**	<1.00	<1.00	**8.80**	<2.00
	11/10/2016	<2.50	<2.50	<2.50	<10.90	<2.50	<1.90	**12.90 J**	<2.50	*125.00*	<0.84	**16.30**	**262.00**	*23.00*	<2.50	*3.30 J*	<12.50	<2.50	<2.50	<2.50	<2.50	*95.40*	<0.99	**507.00**	<2.50	<2.50	**33.10**	<5.00
	6/19/2017	<2.50	<2.50	<2.50	<10.90	<2.50	<1.90	<12.50	<2.50	29.60	<0.84	*3.90*	**85.30**	<1.30	<2.50	<1.20	<12.50	<2.50	<2.50	<2.50	<2.50	**446.00**	<0.99	**283.00**	<2.50	<2.50	**1.90**	<2.40
	11/20/2017	<2.50	<2.50	<2.50	<10.90	<2.50	<1.90	<12.50	<2.50	71.80	<0.84	**8.80**	**158.00**	8.60	<2.50	*3.60 J*	<12.50	<2.50	<2.50	<2.50	<2.50	**264.00**	<0.99	**320.00**	<2.50	<2.50	**14.30**	<5.00
OP-03	5/20/2015	<0.20	<0.17	0.53	<0.17	<0.18	1.36	<0.23	*9.68*	34.90	*1.00*	**102.00**	**14600.00**	*97.20*	<0.17	<0.22	<0.21	<0.17	<0.28	*4.49*	5.77	<0.19	<0.19	**26300.00**	<0.17	<0.17	**1760.00**	<0.38
	6/22/2016	<10.00	<10.00	<10.00	<43.70	<10.00	< 7.50	<50.00	<10.00	*157.00*	<3.40	**45.10**	**826.00**	*25.30*	<10.00	<4.70	<50.00	<10.00	<10.00	<10.00	<10.00	38.40	<3.90	**1690.00**	<10.00	<10.00	**71.90**	<20.00
	11/10/2016	<20.00	<20.00	<20.00	<87.40	<20.00	<15.00	<100.00	<20.00	63.20	<6.70	**48.80**	**2920.00**	12.40 J	<20.00	**13.50 J**	<100.00	<20.00	<20.00	<20.00	<20.00	<20.00	<7.90	**4970.00**	<20.00	<20.00	**253.00**	<40.00
	6/19/2017	<20.00	<20.00	<20.00	<87.40	<20.00	<15.00	<100.00	<20.00	29.80	<6.70	<16.40	**1050.00**	*40.80*	<20.00	<9.30	<100.00	<20.00	<20.00	<20.00	<20.00	*199.00*	<7.90	**3120.00**	<20.00	<20.00	**41.60**	<19.40
	11/20/2017	<20.00	<20.00	<20.00	<87.40	<20.00	54.50	<100.00	<20.00	*371.00*	<6.70	**222.00**	**1760.00**	16.20 J	<20.00	<9.30	<100.00	<20.00	<20.00	<20.00	<20.00	**624.00**	<7.90	**2520.00**	<20.00	<20.00	**238.00**	<40.00
OP-09	5/21/2015	<0.20	<0.17	<0.24	<0.17	<0.18	<0.36	<0.23	<0.36	12.00	<0.20	<0.25	*7.88*	1.06	<0.17	<0.22	<0.21	<0.17	<0.28	<0.14	<0.17	<0.19	<0.19	**10.50**	<0.17	<0.17	**6.35**	<0.38
	6/20/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	5.00	<0.17	<0.41	*9.80*	1.20	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**8.10**	<0.50	<0.50	**6.60**	<1.00
	11/9/2016	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	11.00	<0.17	0.43 J	*22.30*	2.70	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**25.40**	<0.50	<0.50	**18.40**	<1.00
	6/19/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	2.00	<0.17	<0.41	*17.80*	5.70	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**23.20**	<0.50	<0.50	**25.00**	<0.48
	11/20/2017	<0.50	<0.50	<0.50	<2.20	<0.50	<0.37	<2.50	<0.50	5.30	<0.17	<0.41	*24.10*	2.00	<0.50	<0.23	<2.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	**10.20**	<0.50	<0.50	**13.10**	<1.00

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

November 30, 2017

Rick Rudy
RJRudy LLC
500 Ridge Rd
Ward, CO 80481

RE: Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Dear Rick Rudy:
Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Matthew Baake, Baake Field Services LLC, Wisconsin Water and Soil Sampling
Cary Hudson, RJRudy LLC

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CERTIFICATIONS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161315001	**MW-1R**	Water	11/21/17 11:15	11/22/17 14:50
40161315002	**MW-2**	Water	11/21/17 10:55	11/22/17 14:50
40161315003	**MW-4**	Water	11/20/17 16:15	11/22/17 14:50
40161315004	**MW-7**	Water	11/20/17 16:05	11/22/17 14:50
40161315005	**MW-11**	Water	11/21/17 10:30	11/22/17 14:50
40161315006	**MW-12**	Water	11/20/17 15:50	11/22/17 14:50
40161315007	**MW-15**	Water	11/20/17 15:55	11/22/17 14:50
40161315008	**MW-16**	Water	11/20/17 16:20	11/22/17 14:50
40161315009	**MW-17R**	Water	11/20/17 16:25	11/22/17 14:50
40161315010	**MW-19**	Water	11/21/17 10:00	11/22/17 14:50
40161315011	**MW-20**	Water	11/20/17 16:00	11/22/17 14:50
40161315012	**MW-25**	Water	11/21/17 12:00	11/22/17 14:50
40161315013	**MW-27**	Water	11/21/17 12:20	11/22/17 14:50
40161315014	**MW-29**	Water	11/21/17 12:45	11/22/17 14:50
40161315015	**MW-37**	Water	11/20/17 16:30	11/22/17 14:50
40161315016	**OP-2**	Water	11/20/17 16:10	11/22/17 14:50
40161315017	**OP-3**	Water	11/20/17 13:45	11/22/17 14:50
40161315018	**OP-9**	Water	11/20/17 13:30	11/22/17 14:50
40161315019	**DUP-1**	Water	11/21/17 00:00	11/22/17 14:50
40161315020	**DUP-2**	Water	11/21/17 00:00	11/22/17 14:50
40161315021	**TRIP BLANK**	Water	11/20/17 00:00	11/22/17 14:50

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SAMPLE ANALYTE COUNT

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40161315001	**MW-1R**	EPA 8260	HNW	64
40161315002	**MW-2**	EPA 8260	HNW	64
40161315003	**MW-4**	EPA 8260	HNW	64
40161315004	**MW-7**	EPA 8260	HNW	64
40161315005	**MW-11**	EPA 8260	HNW	64
40161315006	**MW-12**	EPA 8260	HNW	64
40161315007	**MW-15**	EPA 8260	HNW	64
40161315008	**MW-16**	EPA 8260	HNW	64
40161315009	**MW-17R**	EPA 8260	HNW	64
40161315010	**MW-19**	EPA 8260	HNW	64
40161315011	**MW-20**	EPA 8260	HNW	64
40161315012	**MW-25**	EPA 8260	HNW	64
40161315013	**MW-27**	EPA 8260	HNW	64
40161315014	**MW-29**	EPA 8260	HNW	64
40161315015	**MW-37**	EPA 8260	HNW	64
40161315016	**OP-2**	EPA 8260	HNW	64
40161315017	**OP-3**	EPA 8260	HNW	64
40161315018	**OP-9**	EPA 8260	HNW	64
40161315019	**DUP-1**	EPA 8260	HNW	64
40161315020	**DUP-2**	EPA 8260	HNW	64
40161315021	**TRIP BLANK**	EPA 8260	LAP	64

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SUMMARY OF DETECTION

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40161315001	**MW-1R**					
EPA 8260	1,1-Dichloroethane	0.81J	ug/L	1.0	11/29/17 11:49	
EPA 8260	Trichloroethene	0.37J	ug/L	1.0	11/29/17 11:49	
40161315002	**MW-2**					
EPA 8260	1,1,1-Trichloroethane	33.8J	ug/L	40.0	11/29/17 18:30	
EPA 8260	Trichloroethene	3370	ug/L	40.0	11/29/17 18:30	
40161315003	**MW-4**					
EPA 8260	1,1,1-Trichloroethane	9.3J	ug/L	10.0	11/29/17 18:08	
EPA 8260	1,1-Dichloroethane	9.8J	ug/L	10.0	11/29/17 18:08	
EPA 8260	Methylene Chloride	4.0J	ug/L	10.0	11/29/17 18:08	
EPA 8260	Trichloroethene	894	ug/L	10.0	11/29/17 18:08	
EPA 8260	cis-1,2-Dichloroethene	52.1	ug/L	10.0	11/29/17 18:08	
40161315004	**MW-7**					
EPA 8260	1,1-Dichloroethane	0.25J	ug/L	1.0	11/29/17 17:25	
EPA 8260	Trichloroethene	0.33J	ug/L	1.0	11/29/17 17:25	
40161315006	**MW-12**					
EPA 8260	Chloroethane	0.69J	ug/L	1.0	11/29/17 17:47	
EPA 8260	Vinyl chloride	0.30J	ug/L	1.0	11/29/17 17:47	
40161315007	**MW-15**					
EPA 8260	1,1,1-Trichloroethane	8.0	ug/L	1.0	11/29/17 13:24	
EPA 8260	1,1-Dichloroethane	8.1	ug/L	1.0	11/29/17 13:24	
EPA 8260	Naphthalene	28.1	ug/L	5.0	11/29/17 13:24	
EPA 8260	Trichloroethene	1.5	ug/L	1.0	11/29/17 13:24	
EPA 8260	Vinyl chloride	16.2	ug/L	1.0	11/29/17 13:24	
EPA 8260	cis-1,2-Dichloroethene	65.7	ug/L	1.0	11/29/17 13:24	
EPA 8260	trans-1,2-Dichloroethene	0.46J	ug/L	1.0	11/29/17 13:24	
40161315008	**MW-16**					
EPA 8260	1,1,1-Trichloroethane	72.1	ug/L	1.0	11/29/17 13:46	
EPA 8260	1,1-Dichloroethane	69.4	ug/L	1.0	11/29/17 13:46	
EPA 8260	1,1-Dichloroethene	1.2	ug/L	1.0	11/29/17 13:46	
EPA 8260	Trichloroethene	36.5	ug/L	1.0	11/29/17 13:46	
EPA 8260	Vinyl chloride	0.22J	ug/L	1.0	11/29/17 13:46	
EPA 8260	cis-1,2-Dichloroethene	58.5	ug/L	1.0	11/29/17 13:46	
EPA 8260	trans-1,2-Dichloroethene	0.60J	ug/L	1.0	11/29/17 13:46	
40161315009	**MW-17R**					
EPA 8260	1,1-Dichloroethane	4.7J	ug/L	10.0	11/30/17 09:35	
EPA 8260	Trichloroethene	958	ug/L	10.0	11/30/17 09:35	
EPA 8260	Vinyl chloride	34.5	ug/L	10.0	11/30/17 09:35	
EPA 8260	cis-1,2-Dichloroethene	482	ug/L	10.0	11/30/17 09:35	
EPA 8260	trans-1,2-Dichloroethene	45.2	ug/L	10.0	11/30/17 09:35	
40161315010	**MW-19**					
EPA 8260	Vinyl chloride	0.26J	ug/L	1.0	11/30/17 08:45	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40161315013	**MW-27**					
EPA 8260	cis-1,2-Dichloroethene	0.26J	ug/L	1.0	11/29/17 15:35	
40161315015	**MW-37**					
EPA 8260	Trichloroethene	10.9	ug/L	1.0	11/29/17 16:19	
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	11/29/17 16:19	
EPA 8260	trans-1,2-Dichloroethene	0.60J	ug/L	1.0	11/29/17 16:19	
40161315016	**OP-2**					
EPA 8260	1,1,1-Trichloroethane	264	ug/L	5.0	11/29/17 10:43	
EPA 8260	1,1-Dichloroethane	71.8	ug/L	5.0	11/29/17 10:43	
EPA 8260	1,1-Dichloroethene	8.8	ug/L	5.0	11/29/17 10:43	
EPA 8260	Methylene Chloride	3.6J	ug/L	5.0	11/29/17 10:43	
EPA 8260	Trichloroethene	320	ug/L	5.0	11/29/17 10:43	
EPA 8260	Vinyl chloride	14.3	ug/L	5.0	11/29/17 10:43	
EPA 8260	cis-1,2-Dichloroethene	158	ug/L	5.0	11/29/17 10:43	
EPA 8260	trans-1,2-Dichloroethene	8.6	ug/L	5.0	11/29/17 10:43	
40161315017	**OP-3**					
EPA 8260	1,1,1-Trichloroethane	624	ug/L	40.0	11/29/17 11:05	
EPA 8260	1,1-Dichloroethane	371	ug/L	40.0	11/29/17 11:05	
EPA 8260	1,1-Dichloroethene	222	ug/L	40.0	11/29/17 11:05	
EPA 8260	Chloroethane	54.5	ug/L	40.0	11/29/17 11:05	
EPA 8260	Trichloroethene	2520	ug/L	40.0	11/29/17 11:05	
EPA 8260	Vinyl chloride	238	ug/L	40.0	11/29/17 11:05	
EPA 8260	cis-1,2-Dichloroethene	1760	ug/L	40.0	11/29/17 11:05	
EPA 8260	trans-1,2-Dichloroethene	16.2J	ug/L	40.0	11/29/17 11:05	
40161315018	**OP-9**					
EPA 8260	1,1-Dichloroethane	5.3	ug/L	1.0	11/29/17 16:41	
EPA 8260	Trichloroethene	10.2	ug/L	1.0	11/29/17 16:41	
EPA 8260	Vinyl chloride	13.1	ug/L	1.0	11/29/17 16:41	
EPA 8260	cis-1,2-Dichloroethene	24.1	ug/L	1.0	11/29/17 16:41	
EPA 8260	trans-1,2-Dichloroethene	2.0	ug/L	1.0	11/29/17 16:41	
40161315019	**DUP-1**					
EPA 8260	1,1-Dichloroethane	0.72J	ug/L	1.0	11/29/17 17:03	
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	11/29/17 17:03	
40161315020	**DUP-2**					
EPA 8260	1,1,1-Trichloroethane	29.1J	ug/L	40.0	11/29/17 11:27	
EPA 8260	Trichloroethene	2910	ug/L	40.0	11/29/17 11:27	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-1R **Lab ID: 40161315001** Collected: 11/21/17 11:15 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 11:49	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 11:49	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 11:49	79-00-5	
1,1-Dichloroethane	**0.81J**	ug/L	1.0	0.24	1		11/29/17 11:49	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 11:49	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 11:49	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 11:49	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 11:49	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 11:49	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 11:49	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 11:49	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 11:49	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 11:49	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 11:49	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 11:49	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 11:49	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 11:49	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 11:49	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 11:49	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 11:49	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 11:49	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 11:49	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 11:49	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 11:49	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 11:49	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 11:49	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-1R **Lab ID: 40161315001** Collected: 11/21/17 11:15 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	108-88-3	
Trichloroethene	**0.37J**	ug/L	1.0	0.33	1		11/29/17 11:49	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 11:49	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 11:49	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 11:49	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 11:49	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 11:49	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 11:49	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 11:49	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 11:49	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 11:49	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/29/17 11:49	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		11/29/17 11:49	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/29/17 11:49	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-2 **Lab ID: 40161315002** Collected: 11/21/17 10:55 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<7.2**	ug/L	40.0	7.2	40		11/29/17 18:30	630-20-6	
1,1,1-Trichloroethane	**33.8J**	ug/L	40.0	20.0	40		11/29/17 18:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<10**	ug/L	40.0	10	40		11/29/17 18:30	79-34-5	
1,1,2-Trichloroethane	**<7.9**	ug/L	40.0	7.9	40		11/29/17 18:30	79-00-5	
1,1-Dichloroethane	**<9.7**	ug/L	40.0	9.7	40		11/29/17 18:30	75-34-3	
1,1-Dichloroethene	**<16.4**	ug/L	40.0	16.4	40		11/29/17 18:30	75-35-4	
1,1-Dichloropropene	**<17.6**	ug/L	40.0	17.6	40		11/29/17 18:30	563-58-6	
1,2,3-Trichlorobenzene	**<85.3**	ug/L	200	85.3	40		11/29/17 18:30	87-61-6	
1,2,3-Trichloropropane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	96-18-4	
1,2,4-Trichlorobenzene	**<88.4**	ug/L	200	88.4	40		11/29/17 18:30	120-82-1	
1,2,4-Trimethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<86.6**	ug/L	200	86.6	40		11/29/17 18:30	96-12-8	
1,2-Dibromoethane (EDB)	**<7.1**	ug/L	40.0	7.1	40		11/29/17 18:30	106-93-4	
1,2-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	95-50-1	
1,2-Dichloroethane	**<6.7**	ug/L	40.0	6.7	40		11/29/17 18:30	107-06-2	
1,2-Dichloropropane	**<9.3**	ug/L	40.0	9.3	40		11/29/17 18:30	78-87-5	
1,3,5-Trimethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	108-67-8	
1,3-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	541-73-1	
1,3-Dichloropropane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	142-28-9	
1,4-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	106-46-7	
2,2-Dichloropropane	**<19.4**	ug/L	40.0	19.4	40		11/29/17 18:30	594-20-7	
2-Chlorotoluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	95-49-8	
4-Chlorotoluene	**<8.5**	ug/L	40.0	8.5	40		11/29/17 18:30	106-43-4	
Benzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	71-43-2	
Bromobenzene	**<9.2**	ug/L	40.0	9.2	40		11/29/17 18:30	108-86-1	
Bromochloromethane	**<13.6**	ug/L	40.0	13.6	40		11/29/17 18:30	74-97-5	
Bromodichloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	75-27-4	
Bromoform	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	75-25-2	
Bromomethane	**<97.4**	ug/L	200	97.4	40		11/29/17 18:30	74-83-9	
Carbon tetrachloride	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	56-23-5	
Chlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	108-90-7	
Chloroethane	**<15.0**	ug/L	40.0	15.0	40		11/29/17 18:30	75-00-3	
Chloroform	**<100**	ug/L	200	100	40		11/29/17 18:30	67-66-3	
Chloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	74-87-3	
Dibromochloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	124-48-1	
Dibromomethane	**<17.1**	ug/L	40.0	17.1	40		11/29/17 18:30	74-95-3	
Dichlorodifluoromethane	**<9.0**	ug/L	40.0	9.0	40		11/29/17 18:30	75-71-8	
Diisopropyl ether	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	108-20-3	
Ethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	100-41-4	
Hexachloro-1,3-butadiene	**<84.2**	ug/L	200	84.2	40		11/29/17 18:30	87-68-3	
Isopropylbenzene (Cumene)	**<5.7**	ug/L	40.0	5.7	40		11/29/17 18:30	98-82-8	
Methyl-tert-butyl ether	**<7.0**	ug/L	40.0	7.0	40		11/29/17 18:30	1634-04-4	
Methylene Chloride	**<9.3**	ug/L	40.0	9.3	40		11/29/17 18:30	75-09-2	
Naphthalene	**<100**	ug/L	200	100	40		11/29/17 18:30	91-20-3	
Styrene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	100-42-5	
Tetrachloroethene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-2 **Lab ID: 40161315002** Collected: 11/21/17 10:55 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	108-88-3	
Trichloroethene	**3370**	ug/L	40.0	13.2	40		11/29/17 18:30	79-01-6	
Trichlorofluoromethane	**<7.4**	ug/L	40.0	7.4	40		11/29/17 18:30	75-69-4	
Vinyl chloride	**<7.0**	ug/L	40.0	7.0	40		11/29/17 18:30	75-01-4	
cis-1,2-Dichloroethene	**<10.2**	ug/L	40.0	10.2	40		11/29/17 18:30	156-59-2	
cis-1,3-Dichloropropene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	10061-01-5	
m&p-Xylene	**<40.0**	ug/L	80.0	40.0	40		11/29/17 18:30	179601-23-1	
n-Butylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	104-51-8	
n-Propylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	103-65-1	
o-Xylene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	95-47-6	
p-Isopropyltoluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 18:30	99-87-6	
sec-Butylbenzene	**<87.4**	ug/L	200	87.4	40		11/29/17 18:30	135-98-8	
tert-Butylbenzene	**<7.2**	ug/L	40.0	7.2	40		11/29/17 18:30	98-06-6	
trans-1,2-Dichloroethene	**<10.3**	ug/L	40.0	10.3	40		11/29/17 18:30	156-60-5	
trans-1,3-Dichloropropene	**<9.2**	ug/L	40.0	9.2	40		11/29/17 18:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		40		11/29/17 18:30	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		40		11/29/17 18:30	1868-53-7	
Toluene-d8 (S)	99	%	70-130		40		11/29/17 18:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-4 **Lab ID: 40161315003** Collected: 11/20/17 16:15 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<1.8**	ug/L	10.0	1.8	10		11/29/17 18:08	630-20-6	
1,1,1-Trichloroethane	**9.3J**	ug/L	10.0	5.0	10		11/29/17 18:08	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		11/29/17 18:08	79-34-5	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		11/29/17 18:08	79-00-5	
1,1-Dichloroethane	**9.8J**	ug/L	10.0	2.4	10		11/29/17 18:08	75-34-3	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/29/17 18:08	75-35-4	
1,1-Dichloropropene	**<4.4**	ug/L	10.0	4.4	10		11/29/17 18:08	563-58-6	
1,2,3-Trichlorobenzene	**<21.3**	ug/L	50.0	21.3	10		11/29/17 18:08	87-61-6	
1,2,3-Trichloropropane	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	96-18-4	
1,2,4-Trichlorobenzene	**<22.1**	ug/L	50.0	22.1	10		11/29/17 18:08	120-82-1	
1,2,4-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	95-63-6	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		11/29/17 18:08	96-12-8	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		11/29/17 18:08	106-93-4	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	95-50-1	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/29/17 18:08	107-06-2	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		11/29/17 18:08	78-87-5	
1,3,5-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	108-67-8	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	541-73-1	
1,3-Dichloropropane	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	142-28-9	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	106-46-7	
2,2-Dichloropropane	**<4.8**	ug/L	10.0	4.8	10		11/29/17 18:08	594-20-7	
2-Chlorotoluene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	95-49-8	
4-Chlorotoluene	**<2.1**	ug/L	10.0	2.1	10		11/29/17 18:08	106-43-4	
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	71-43-2	
Bromobenzene	**<2.3**	ug/L	10.0	2.3	10		11/29/17 18:08	108-86-1	
Bromochloromethane	**<3.4**	ug/L	10.0	3.4	10		11/29/17 18:08	74-97-5	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		11/29/17 18:08	74-83-9	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		11/29/17 18:08	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/29/17 18:08	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	124-48-1	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		11/29/17 18:08	74-95-3	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		11/29/17 18:08	75-71-8	
Diisopropyl ether	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	108-20-3	
Ethylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		11/29/17 18:08	87-68-3	
Isopropylbenzene (Cumene)	**<1.4**	ug/L	10.0	1.4	10		11/29/17 18:08	98-82-8	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		11/29/17 18:08	1634-04-4	
Methylene Chloride	**4.0J**	ug/L	10.0	2.3	10		11/29/17 18:08	75-09-2	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		11/29/17 18:08	91-20-3	
Styrene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	100-42-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-4 **Lab ID: 40161315003** Collected: 11/20/17 16:15 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	108-88-3	
Trichloroethene	**894**	ug/L	10.0	3.3	10		11/29/17 18:08	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		11/29/17 18:08	75-69-4	
Vinyl chloride	**<1.8**	ug/L	10.0	1.8	10		11/29/17 18:08	75-01-4	
cis-1,2-Dichloroethene	**52.1**	ug/L	10.0	2.6	10		11/29/17 18:08	156-59-2	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	10061-01-5	
m&p-Xylene	**<10.0**	ug/L	20.0	10.0	10		11/29/17 18:08	179601-23-1	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	104-51-8	
n-Propylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	103-65-1	
o-Xylene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	95-47-6	
p-Isopropyltoluene	**<5.0**	ug/L	10.0	5.0	10		11/29/17 18:08	99-87-6	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		11/29/17 18:08	135-98-8	
tert-Butylbenzene	**<1.8**	ug/L	10.0	1.8	10		11/29/17 18:08	98-06-6	
trans-1,2-Dichloroethene	**<2.6**	ug/L	10.0	2.6	10		11/29/17 18:08	156-60-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		11/29/17 18:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		10		11/29/17 18:08	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		10		11/29/17 18:08	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		11/29/17 18:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-7 **Lab ID: 40161315004** Collected: 11/20/17 16:05 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:25	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 17:25	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 17:25	79-00-5	
1,1-Dichloroethane	**0.25J**	ug/L	1.0	0.24	1		11/29/17 17:25	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 17:25	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 17:25	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 17:25	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:25	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:25	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:25	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 17:25	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:25	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 17:25	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 17:25	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:25	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 17:25	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 17:25	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 17:25	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 17:25	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 17:25	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 17:25	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 17:25	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 17:25	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 17:25	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:25	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 17:25	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-7 **Lab ID: 40161315004** Collected: 11/20/17 16:05 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	108-88-3	
Trichloroethene	**0.33J**	ug/L	1.0	0.33	1		11/29/17 17:25	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:25	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:25	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 17:25	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 17:25	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:25	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:25	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:25	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 17:25	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:25	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/29/17 17:25	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		11/29/17 17:25	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/29/17 17:25	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-11 **Lab ID: 40161315005** Collected: 11/21/17 10:30 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 09:59	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 09:59	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 09:59	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 09:59	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 09:59	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 09:59	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 09:59	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 09:59	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 09:59	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 09:59	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 09:59	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 09:59	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 09:59	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 09:59	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 09:59	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 09:59	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 09:59	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 09:59	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 09:59	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 09:59	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 09:59	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 09:59	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 09:59	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 09:59	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 09:59	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 09:59	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-11 **Lab ID: 40161315005** Collected: 11/21/17 10:30 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/29/17 09:59	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 09:59	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 09:59	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 09:59	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 09:59	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 09:59	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 09:59	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 09:59	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 09:59	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 09:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/29/17 09:59	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		11/29/17 09:59	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/29/17 09:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-12 **Lab ID: 40161315006** Collected: 11/20/17 15:50 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:47	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 17:47	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 17:47	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 17:47	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 17:47	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 17:47	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 17:47	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:47	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:47	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:47	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 17:47	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:47	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 17:47	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 17:47	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:47	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 17:47	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 17:47	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	108-90-7	
Chloroethane	**0.69J**	ug/L	1.0	0.37	1		11/29/17 17:47	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 17:47	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 17:47	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 17:47	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 17:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 17:47	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 17:47	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:47	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 17:47	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-12 **Lab ID: 40161315006** Collected: 11/20/17 15:50 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/29/17 17:47	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:47	75-69-4	
Vinyl chloride	**0.30J**	ug/L	1.0	0.18	1		11/29/17 17:47	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 17:47	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 17:47	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:47	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:47	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:47	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 17:47	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		11/29/17 17:47	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		11/29/17 17:47	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/29/17 17:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-15 **Lab ID: 40161315007** Collected: 11/20/17 15:55 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:24	630-20-6	
1,1,1-Trichloroethane	**8.0**	ug/L	1.0	0.50	1		11/29/17 13:24	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 13:24	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 13:24	79-00-5	
1,1-Dichloroethane	**8.1**	ug/L	1.0	0.24	1		11/29/17 13:24	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 13:24	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 13:24	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 13:24	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:24	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:24	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:24	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 13:24	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:24	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 13:24	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 13:24	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:24	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 13:24	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 13:24	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 13:24	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 13:24	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 13:24	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 13:24	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 13:24	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 13:24	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 13:24	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:24	75-09-2	
Naphthalene	**28.1**	ug/L	5.0	2.5	1		11/29/17 13:24	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-15 **Lab ID: 40161315007** Collected: 11/20/17 15:55 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	108-88-3	
Trichloroethene	**1.5**	ug/L	1.0	0.33	1		11/29/17 13:24	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:24	75-69-4	
Vinyl chloride	**16.2**	ug/L	1.0	0.18	1		11/29/17 13:24	75-01-4	
cis-1,2-Dichloroethene	**65.7**	ug/L	1.0	0.26	1		11/29/17 13:24	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 13:24	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:24	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:24	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:24	98-06-6	
trans-1,2-Dichloroethene	**0.46J**	ug/L	1.0	0.26	1		11/29/17 13:24	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		11/29/17 13:24	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		11/29/17 13:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/29/17 13:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-16 **Lab ID: 40161315008** Collected: 11/20/17 16:20 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:46	630-20-6	
1,1,1-Trichloroethane	**72.1**	ug/L	1.0	0.50	1		11/29/17 13:46	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 13:46	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 13:46	79-00-5	
1,1-Dichloroethane	**69.4**	ug/L	1.0	0.24	1		11/29/17 13:46	75-34-3	
1,1-Dichloroethene	**1.2**	ug/L	1.0	0.41	1		11/29/17 13:46	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 13:46	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 13:46	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:46	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:46	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:46	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 13:46	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:46	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 13:46	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 13:46	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:46	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 13:46	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 13:46	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 13:46	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 13:46	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 13:46	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 13:46	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 13:46	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 13:46	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 13:46	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:46	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 13:46	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-16 **Lab ID: 40161315008** Collected: 11/20/17 16:20 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	108-88-3	
Trichloroethene	**36.5**	ug/L	1.0	0.33	1		11/29/17 13:46	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:46	75-69-4	
Vinyl chloride	**0.22J**	ug/L	1.0	0.18	1		11/29/17 13:46	75-01-4	
cis-1,2-Dichloroethene	**58.5**	ug/L	1.0	0.26	1		11/29/17 13:46	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 13:46	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:46	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:46	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:46	98-06-6	
trans-1,2-Dichloroethene	**0.60J**	ug/L	1.0	0.26	1		11/29/17 13:46	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:46	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		11/29/17 13:46	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		11/29/17 13:46	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/29/17 13:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-17R **Lab ID: 40161315009** Collected: 11/20/17 16:25 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<1.8**	ug/L	10.0	1.8	10		11/30/17 09:35	630-20-6	
1,1,1-Trichloroethane	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	71-55-6	
1,1,2,2-Tetrachloroethane	**<2.5**	ug/L	10.0	2.5	10		11/30/17 09:35	79-34-5	
1,1,2-Trichloroethane	**<2.0**	ug/L	10.0	2.0	10		11/30/17 09:35	79-00-5	
1,1-Dichloroethane	**4.7J**	ug/L	10.0	2.4	10		11/30/17 09:35	75-34-3	
1,1-Dichloroethene	**<4.1**	ug/L	10.0	4.1	10		11/30/17 09:35	75-35-4	
1,1-Dichloropropene	**<4.4**	ug/L	10.0	4.4	10		11/30/17 09:35	563-58-6	
1,2,3-Trichlorobenzene	**<21.3**	ug/L	50.0	21.3	10		11/30/17 09:35	87-61-6	
1,2,3-Trichloropropane	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	96-18-4	
1,2,4-Trichlorobenzene	**<22.1**	ug/L	50.0	22.1	10		11/30/17 09:35	120-82-1	
1,2,4-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	95-63-6	
1,2-Dibromo-3-chloropropane	**<21.6**	ug/L	50.0	21.6	10		11/30/17 09:35	96-12-8	
1,2-Dibromoethane (EDB)	**<1.8**	ug/L	10.0	1.8	10		11/30/17 09:35	106-93-4	
1,2-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	95-50-1	
1,2-Dichloroethane	**<1.7**	ug/L	10.0	1.7	10		11/30/17 09:35	107-06-2	
1,2-Dichloropropane	**<2.3**	ug/L	10.0	2.3	10		11/30/17 09:35	78-87-5	
1,3,5-Trimethylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	108-67-8	
1,3-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	541-73-1	
1,3-Dichloropropane	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	142-28-9	
1,4-Dichlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	106-46-7	
2,2-Dichloropropane	**<4.8**	ug/L	10.0	4.8	10		11/30/17 09:35	594-20-7	
2-Chlorotoluene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	95-49-8	
4-Chlorotoluene	**<2.1**	ug/L	10.0	2.1	10		11/30/17 09:35	106-43-4	
Benzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	71-43-2	
Bromobenzene	**<2.3**	ug/L	10.0	2.3	10		11/30/17 09:35	108-86-1	
Bromochloromethane	**<3.4**	ug/L	10.0	3.4	10		11/30/17 09:35	74-97-5	
Bromodichloromethane	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	75-27-4	
Bromoform	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	75-25-2	
Bromomethane	**<24.3**	ug/L	50.0	24.3	10		11/30/17 09:35	74-83-9	
Carbon tetrachloride	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	56-23-5	
Chlorobenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	108-90-7	
Chloroethane	**<3.7**	ug/L	10.0	3.7	10		11/30/17 09:35	75-00-3	
Chloroform	**<25.0**	ug/L	50.0	25.0	10		11/30/17 09:35	67-66-3	
Chloromethane	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	74-87-3	
Dibromochloromethane	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	124-48-1	
Dibromomethane	**<4.3**	ug/L	10.0	4.3	10		11/30/17 09:35	74-95-3	
Dichlorodifluoromethane	**<2.2**	ug/L	10.0	2.2	10		11/30/17 09:35	75-71-8	
Diisopropyl ether	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	108-20-3	
Ethylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	100-41-4	
Hexachloro-1,3-butadiene	**<21.1**	ug/L	50.0	21.1	10		11/30/17 09:35	87-68-3	
Isopropylbenzene (Cumene)	**<1.4**	ug/L	10.0	1.4	10		11/30/17 09:35	98-82-8	
Methyl-tert-butyl ether	**<1.7**	ug/L	10.0	1.7	10		11/30/17 09:35	1634-04-4	
Methylene Chloride	**<2.3**	ug/L	10.0	2.3	10		11/30/17 09:35	75-09-2	
Naphthalene	**<25.0**	ug/L	50.0	25.0	10		11/30/17 09:35	91-20-3	
Styrene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	100-42-5	
Tetrachloroethene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-17R **Lab ID: 40161315009** Collected: 11/20/17 16:25 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	108-88-3	
Trichloroethene	**958**	ug/L	10.0	3.3	10		11/30/17 09:35	79-01-6	
Trichlorofluoromethane	**<1.8**	ug/L	10.0	1.8	10		11/30/17 09:35	75-69-4	
Vinyl chloride	**34.5**	ug/L	10.0	1.8	10		11/30/17 09:35	75-01-4	
cis-1,2-Dichloroethene	**482**	ug/L	10.0	2.6	10		11/30/17 09:35	156-59-2	
cis-1,3-Dichloropropene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	10061-01-5	
m&p-Xylene	**<10.0**	ug/L	20.0	10.0	10		11/30/17 09:35	179601-23-1	
n-Butylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	104-51-8	
n-Propylbenzene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	103-65-1	
o-Xylene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	95-47-6	
p-Isopropyltoluene	**<5.0**	ug/L	10.0	5.0	10		11/30/17 09:35	99-87-6	
sec-Butylbenzene	**<21.9**	ug/L	50.0	21.9	10		11/30/17 09:35	135-98-8	
tert-Butylbenzene	**<1.8**	ug/L	10.0	1.8	10		11/30/17 09:35	98-06-6	
trans-1,2-Dichloroethene	**45.2**	ug/L	10.0	2.6	10		11/30/17 09:35	156-60-5	
trans-1,3-Dichloropropene	**<2.3**	ug/L	10.0	2.3	10		11/30/17 09:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		10		11/30/17 09:35	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		10		11/30/17 09:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		11/30/17 09:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-19 **Lab ID: 40161315010** Collected: 11/21/17 10:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/30/17 08:45	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/30/17 08:45	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/30/17 08:45	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/30/17 08:45	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/30/17 08:45	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/30/17 08:45	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/30/17 08:45	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/30/17 08:45	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/30/17 08:45	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/30/17 08:45	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/30/17 08:45	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/30/17 08:45	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/30/17 08:45	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/30/17 08:45	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/30/17 08:45	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/30/17 08:45	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/30/17 08:45	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/30/17 08:45	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/30/17 08:45	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/30/17 08:45	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/30/17 08:45	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/30/17 08:45	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/30/17 08:45	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/30/17 08:45	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/30/17 08:45	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/30/17 08:45	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-19 **Lab ID: 40161315010** Collected: 11/21/17 10:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/30/17 08:45	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/30/17 08:45	75-69-4	
Vinyl chloride	**0.26J**	ug/L	1.0	0.18	1		11/30/17 08:45	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/30/17 08:45	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/30/17 08:45	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 08:45	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/30/17 08:45	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/30/17 08:45	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/30/17 08:45	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/30/17 08:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/30/17 08:45	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		11/30/17 08:45	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		11/30/17 08:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-20 **Lab ID: 40161315011** Collected: 11/20/17 16:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/30/17 09:13	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/30/17 09:13	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/30/17 09:13	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/30/17 09:13	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/30/17 09:13	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/30/17 09:13	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/30/17 09:13	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/30/17 09:13	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/30/17 09:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/30/17 09:13	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/30/17 09:13	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/30/17 09:13	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/30/17 09:13	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/30/17 09:13	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/30/17 09:13	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/30/17 09:13	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/30/17 09:13	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/30/17 09:13	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/30/17 09:13	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/30/17 09:13	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/30/17 09:13	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/30/17 09:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/30/17 09:13	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/30/17 09:13	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/30/17 09:13	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/30/17 09:13	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-20 **Lab ID: 40161315011** Collected: 11/20/17 16:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/30/17 09:13	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/30/17 09:13	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/30/17 09:13	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/30/17 09:13	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/30/17 09:13	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/30/17 09:13	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/30/17 09:13	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/30/17 09:13	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/30/17 09:13	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/30/17 09:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		11/30/17 09:13	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		11/30/17 09:13	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/30/17 09:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-25 **Lab ID: 40161315012** Collected: 11/21/17 12:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:13	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 15:13	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 15:13	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 15:13	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 15:13	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 15:13	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 15:13	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:13	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:13	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 15:13	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:13	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 15:13	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 15:13	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:13	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 15:13	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 15:13	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 15:13	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 15:13	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 15:13	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 15:13	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 15:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 15:13	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 15:13	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:13	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 15:13	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-25 **Lab ID: 40161315012** Collected: 11/21/17 12:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/29/17 15:13	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:13	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:13	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 15:13	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 15:13	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:13	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:13	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:13	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 15:13	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/29/17 15:13	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		11/29/17 15:13	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/29/17 15:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-27 **Lab ID: 40161315013** Collected: 11/21/17 12:20 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:35	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 15:35	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 15:35	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 15:35	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 15:35	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 15:35	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 15:35	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:35	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:35	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:35	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 15:35	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:35	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 15:35	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 15:35	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:35	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 15:35	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 15:35	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 15:35	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 15:35	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 15:35	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 15:35	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 15:35	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 15:35	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 15:35	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:35	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 15:35	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-27 **Lab ID: 40161315013** Collected: 11/21/17 12:20 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/29/17 15:35	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:35	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:35	75-01-4	
cis-1,2-Dichloroethene	**0.26J**	ug/L	1.0	0.26	1		11/29/17 15:35	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 15:35	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:35	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:35	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:35	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 15:35	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/29/17 15:35	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		11/29/17 15:35	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/29/17 15:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-29 **Lab ID: 40161315014** Collected: 11/21/17 12:45 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:57	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 15:57	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 15:57	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 15:57	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 15:57	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 15:57	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 15:57	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:57	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:57	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:57	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 15:57	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:57	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 15:57	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 15:57	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:57	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 15:57	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 15:57	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 15:57	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 15:57	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 15:57	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 15:57	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 15:57	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 15:57	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 15:57	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:57	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 15:57	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-29 **Lab ID: 40161315014** Collected: 11/21/17 12:45 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/29/17 15:57	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:57	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:57	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 15:57	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 15:57	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 15:57	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 15:57	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 15:57	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 15:57	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 15:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		11/29/17 15:57	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		11/29/17 15:57	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/29/17 15:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-37 **Lab ID: 40161315015** Collected: 11/20/17 16:30 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:19	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 16:19	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 16:19	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 16:19	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 16:19	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 16:19	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 16:19	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 16:19	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 16:19	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:19	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 16:19	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:19	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 16:19	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 16:19	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:19	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 16:19	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 16:19	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 16:19	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 16:19	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 16:19	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 16:19	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 16:19	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 16:19	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 16:19	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:19	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 16:19	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: MW-37 **Lab ID: 40161315015** Collected: 11/20/17 16:30 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	108-88-3	
Trichloroethene	**10.9**	ug/L	1.0	0.33	1		11/29/17 16:19	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:19	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:19	75-01-4	
cis-1,2-Dichloroethene	**1.1**	ug/L	1.0	0.26	1		11/29/17 16:19	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 16:19	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:19	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 16:19	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:19	98-06-6	
trans-1,2-Dichloroethene	**0.60J**	ug/L	1.0	0.26	1		11/29/17 16:19	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		11/29/17 16:19	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		11/29/17 16:19	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/29/17 16:19	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: OP-2 **Lab ID: 40161315016** Collected: 11/20/17 16:10 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.90**	ug/L	5.0	0.90	5		11/29/17 10:43	630-20-6	
1,1,1-Trichloroethane	**264**	ug/L	5.0	2.5	5		11/29/17 10:43	71-55-6	
1,1,2,2-Tetrachloroethane	**<1.2**	ug/L	5.0	1.2	5		11/29/17 10:43	79-34-5	
1,1,2-Trichloroethane	**<0.99**	ug/L	5.0	0.99	5		11/29/17 10:43	79-00-5	
1,1-Dichloroethane	**71.8**	ug/L	5.0	1.2	5		11/29/17 10:43	75-34-3	
1,1-Dichloroethene	**8.8**	ug/L	5.0	2.1	5		11/29/17 10:43	75-35-4	
1,1-Dichloropropene	**<2.2**	ug/L	5.0	2.2	5		11/29/17 10:43	563-58-6	
1,2,3-Trichlorobenzene	**<10.7**	ug/L	25.0	10.7	5		11/29/17 10:43	87-61-6	
1,2,3-Trichloropropane	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	96-18-4	
1,2,4-Trichlorobenzene	**<11.0**	ug/L	25.0	11.0	5		11/29/17 10:43	120-82-1	
1,2,4-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	95-63-6	
1,2-Dibromo-3-chloropropane	**<10.8**	ug/L	25.0	10.8	5		11/29/17 10:43	96-12-8	
1,2-Dibromoethane (EDB)	**<0.89**	ug/L	5.0	0.89	5		11/29/17 10:43	106-93-4	
1,2-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	95-50-1	
1,2-Dichloroethane	**<0.84**	ug/L	5.0	0.84	5		11/29/17 10:43	107-06-2	
1,2-Dichloropropane	**<1.2**	ug/L	5.0	1.2	5		11/29/17 10:43	78-87-5	
1,3,5-Trimethylbenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	108-67-8	
1,3-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	541-73-1	
1,3-Dichloropropane	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	142-28-9	
1,4-Dichlorobenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	106-46-7	
2,2-Dichloropropane	**<2.4**	ug/L	5.0	2.4	5		11/29/17 10:43	594-20-7	
2-Chlorotoluene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	95-49-8	
4-Chlorotoluene	**<1.1**	ug/L	5.0	1.1	5		11/29/17 10:43	106-43-4	
Benzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	71-43-2	
Bromobenzene	**<1.2**	ug/L	5.0	1.2	5		11/29/17 10:43	108-86-1	
Bromochloromethane	**<1.7**	ug/L	5.0	1.7	5		11/29/17 10:43	74-97-5	
Bromodichloromethane	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	75-27-4	
Bromoform	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	75-25-2	
Bromomethane	**<12.2**	ug/L	25.0	12.2	5		11/29/17 10:43	74-83-9	
Carbon tetrachloride	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	56-23-5	
Chlorobenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	108-90-7	
Chloroethane	**<1.9**	ug/L	5.0	1.9	5		11/29/17 10:43	75-00-3	
Chloroform	**<12.5**	ug/L	25.0	12.5	5		11/29/17 10:43	67-66-3	
Chloromethane	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	74-87-3	
Dibromochloromethane	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	124-48-1	
Dibromomethane	**<2.1**	ug/L	5.0	2.1	5		11/29/17 10:43	74-95-3	
Dichlorodifluoromethane	**<1.1**	ug/L	5.0	1.1	5		11/29/17 10:43	75-71-8	
Diisopropyl ether	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	108-20-3	
Ethylbenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	100-41-4	
Hexachloro-1,3-butadiene	**<10.5**	ug/L	25.0	10.5	5		11/29/17 10:43	87-68-3	
Isopropylbenzene (Cumene)	**<0.72**	ug/L	5.0	0.72	5		11/29/17 10:43	98-82-8	
Methyl-tert-butyl ether	**<0.87**	ug/L	5.0	0.87	5		11/29/17 10:43	1634-04-4	
Methylene Chloride	**3.6J**	ug/L	5.0	1.2	5		11/29/17 10:43	75-09-2	
Naphthalene	**<12.5**	ug/L	25.0	12.5	5		11/29/17 10:43	91-20-3	
Styrene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	100-42-5	
Tetrachloroethene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: OP-2 **Lab ID: 40161315016** Collected: 11/20/17 16:10 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	108-88-3	
Trichloroethene	**320**	ug/L	5.0	1.7	5		11/29/17 10:43	79-01-6	
Trichlorofluoromethane	**<0.92**	ug/L	5.0	0.92	5		11/29/17 10:43	75-69-4	
Vinyl chloride	**14.3**	ug/L	5.0	0.88	5		11/29/17 10:43	75-01-4	
cis-1,2-Dichloroethene	**158**	ug/L	5.0	1.3	5		11/29/17 10:43	156-59-2	
cis-1,3-Dichloropropene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	10061-01-5	
m&p-Xylene	**<5.0**	ug/L	10.0	5.0	5		11/29/17 10:43	179601-23-1	
n-Butylbenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	104-51-8	
n-Propylbenzene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	103-65-1	
o-Xylene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	95-47-6	
p-Isopropyltoluene	**<2.5**	ug/L	5.0	2.5	5		11/29/17 10:43	99-87-6	
sec-Butylbenzene	**<10.9**	ug/L	25.0	10.9	5		11/29/17 10:43	135-98-8	
tert-Butylbenzene	**<0.90**	ug/L	5.0	0.90	5		11/29/17 10:43	98-06-6	
trans-1,2-Dichloroethene	**8.6**	ug/L	5.0	1.3	5		11/29/17 10:43	156-60-5	
trans-1,3-Dichloropropene	**<1.1**	ug/L	5.0	1.1	5		11/29/17 10:43	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		5		11/29/17 10:43	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		5		11/29/17 10:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		5		11/29/17 10:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: OP-3 **Lab ID: 40161315017** Collected: 11/20/17 13:45 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<7.2**	ug/L	40.0	7.2	40		11/29/17 11:05	630-20-6	
1,1,1-Trichloroethane	**624**	ug/L	40.0	20.0	40		11/29/17 11:05	71-55-6	
1,1,2,2-Tetrachloroethane	**<10**	ug/L	40.0	10	40		11/29/17 11:05	79-34-5	
1,1,2-Trichloroethane	**<7.9**	ug/L	40.0	7.9	40		11/29/17 11:05	79-00-5	
1,1-Dichloroethane	**371**	ug/L	40.0	9.7	40		11/29/17 11:05	75-34-3	
1,1-Dichloroethene	**222**	ug/L	40.0	16.4	40		11/29/17 11:05	75-35-4	
1,1-Dichloropropene	**<17.6**	ug/L	40.0	17.6	40		11/29/17 11:05	563-58-6	
1,2,3-Trichlorobenzene	**<85.3**	ug/L	200	85.3	40		11/29/17 11:05	87-61-6	
1,2,3-Trichloropropane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	96-18-4	
1,2,4-Trichlorobenzene	**<88.4**	ug/L	200	88.4	40		11/29/17 11:05	120-82-1	
1,2,4-Trimethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	95-63-6	
1,2-Dibromo-3-chloropropane	**<86.6**	ug/L	200	86.6	40		11/29/17 11:05	96-12-8	
1,2-Dibromoethane (EDB)	**<7.1**	ug/L	40.0	7.1	40		11/29/17 11:05	106-93-4	
1,2-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	95-50-1	
1,2-Dichloroethane	**<6.7**	ug/L	40.0	6.7	40		11/29/17 11:05	107-06-2	
1,2-Dichloropropane	**<9.3**	ug/L	40.0	9.3	40		11/29/17 11:05	78-87-5	
1,3,5-Trimethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	108-67-8	
1,3-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	541-73-1	
1,3-Dichloropropane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	142-28-9	
1,4-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	106-46-7	
2,2-Dichloropropane	**<19.4**	ug/L	40.0	19.4	40		11/29/17 11:05	594-20-7	
2-Chlorotoluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	95-49-8	
4-Chlorotoluene	**<8.5**	ug/L	40.0	8.5	40		11/29/17 11:05	106-43-4	
Benzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	71-43-2	
Bromobenzene	**<9.2**	ug/L	40.0	9.2	40		11/29/17 11:05	108-86-1	
Bromochloromethane	**<13.6**	ug/L	40.0	13.6	40		11/29/17 11:05	74-97-5	
Bromodichloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	75-27-4	
Bromoform	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	75-25-2	
Bromomethane	**<97.4**	ug/L	200	97.4	40		11/29/17 11:05	74-83-9	
Carbon tetrachloride	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	56-23-5	
Chlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	108-90-7	
Chloroethane	**54.5**	ug/L	40.0	15.0	40		11/29/17 11:05	75-00-3	
Chloroform	**<100**	ug/L	200	100	40		11/29/17 11:05	67-66-3	
Chloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	74-87-3	
Dibromochloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	124-48-1	
Dibromomethane	**<17.1**	ug/L	40.0	17.1	40		11/29/17 11:05	74-95-3	
Dichlorodifluoromethane	**<9.0**	ug/L	40.0	9.0	40		11/29/17 11:05	75-71-8	
Diisopropyl ether	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	108-20-3	
Ethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	100-41-4	
Hexachloro-1,3-butadiene	**<84.2**	ug/L	200	84.2	40		11/29/17 11:05	87-68-3	
Isopropylbenzene (Cumene)	**<5.7**	ug/L	40.0	5.7	40		11/29/17 11:05	98-82-8	
Methyl-tert-butyl ether	**<7.0**	ug/L	40.0	7.0	40		11/29/17 11:05	1634-04-4	
Methylene Chloride	**<9.3**	ug/L	40.0	9.3	40		11/29/17 11:05	75-09-2	
Naphthalene	**<100**	ug/L	200	100	40		11/29/17 11:05	91-20-3	
Styrene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	100-42-5	
Tetrachloroethene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: OP-3 **Lab ID: 40161315017** Collected: 11/20/17 13:45 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	108-88-3	
Trichloroethene	**2520**	ug/L	40.0	13.2	40		11/29/17 11:05	79-01-6	
Trichlorofluoromethane	**<7.4**	ug/L	40.0	7.4	40		11/29/17 11:05	75-69-4	
Vinyl chloride	**238**	ug/L	40.0	7.0	40		11/29/17 11:05	75-01-4	
cis-1,2-Dichloroethene	**1760**	ug/L	40.0	10.2	40		11/29/17 11:05	156-59-2	
cis-1,3-Dichloropropene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	10061-01-5	
m&p-Xylene	**<40.0**	ug/L	80.0	40.0	40		11/29/17 11:05	179601-23-1	
n-Butylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	104-51-8	
n-Propylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	103-65-1	
o-Xylene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	95-47-6	
p-Isopropyltoluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:05	99-87-6	
sec-Butylbenzene	**<87.4**	ug/L	200	87.4	40		11/29/17 11:05	135-98-8	
tert-Butylbenzene	**<7.2**	ug/L	40.0	7.2	40		11/29/17 11:05	98-06-6	
trans-1,2-Dichloroethene	**16.2J**	ug/L	40.0	10.3	40		11/29/17 11:05	156-60-5	
trans-1,3-Dichloropropene	**<9.2**	ug/L	40.0	9.2	40		11/29/17 11:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		40		11/29/17 11:05	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		40		11/29/17 11:05	1868-53-7	
Toluene-d8 (S)	99	%	70-130		40		11/29/17 11:05	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: OP-9 **Lab ID: 40161315018** Collected: 11/20/17 13:30 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:41	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 16:41	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 16:41	79-00-5	
1,1-Dichloroethane	**5.3**	ug/L	1.0	0.24	1		11/29/17 16:41	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 16:41	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 16:41	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 16:41	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 16:41	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 16:41	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:41	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 16:41	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:41	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 16:41	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 16:41	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:41	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 16:41	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 16:41	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 16:41	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 16:41	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 16:41	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 16:41	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 16:41	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 16:41	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 16:41	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:41	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 16:41	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: OP-9 **Lab ID: 40161315018** Collected: 11/20/17 13:30 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	108-88-3	
Trichloroethene	**10.2**	ug/L	1.0	0.33	1		11/29/17 16:41	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:41	75-69-4	
Vinyl chloride	**13.1**	ug/L	1.0	0.18	1		11/29/17 16:41	75-01-4	
cis-1,2-Dichloroethene	**24.1**	ug/L	1.0	0.26	1		11/29/17 16:41	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 16:41	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 16:41	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 16:41	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 16:41	98-06-6	
trans-1,2-Dichloroethene	**2.0**	ug/L	1.0	0.26	1		11/29/17 16:41	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 16:41	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		11/29/17 16:41	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		11/29/17 16:41	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/29/17 16:41	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: DUP-1 **Lab ID: 40161315019** Collected: 11/21/17 00:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:03	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 17:03	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 17:03	79-00-5	
1,1-Dichloroethane	**0.72J**	ug/L	1.0	0.24	1		11/29/17 17:03	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 17:03	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 17:03	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 17:03	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:03	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:03	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:03	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 17:03	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:03	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 17:03	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 17:03	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:03	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 17:03	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 17:03	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 17:03	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 17:03	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 17:03	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 17:03	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 17:03	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 17:03	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 17:03	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:03	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 17:03	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: DUP-1 **Lab ID: 40161315019** Collected: 11/21/17 00:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	108-88-3	
Trichloroethene	**0.34J**	ug/L	1.0	0.33	1		11/29/17 17:03	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:03	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:03	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 17:03	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 17:03	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 17:03	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 17:03	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 17:03	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 17:03	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 17:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		1		11/29/17 17:03	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		11/29/17 17:03	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/29/17 17:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: DUP-2 **Lab ID: 40161315020** Collected: 11/21/17 00:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<7.2**	ug/L	40.0	7.2	40		11/29/17 11:27	630-20-6	
1,1,1-Trichloroethane	**29.1J**	ug/L	40.0	20.0	40		11/29/17 11:27	71-55-6	
1,1,2,2-Tetrachloroethane	**<10**	ug/L	40.0	10	40		11/29/17 11:27	79-34-5	
1,1,2-Trichloroethane	**<7.9**	ug/L	40.0	7.9	40		11/29/17 11:27	79-00-5	
1,1-Dichloroethane	**<9.7**	ug/L	40.0	9.7	40		11/29/17 11:27	75-34-3	
1,1-Dichloroethene	**<16.4**	ug/L	40.0	16.4	40		11/29/17 11:27	75-35-4	
1,1-Dichloropropene	**<17.6**	ug/L	40.0	17.6	40		11/29/17 11:27	563-58-6	
1,2,3-Trichlorobenzene	**<85.3**	ug/L	200	85.3	40		11/29/17 11:27	87-61-6	
1,2,3-Trichloropropane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	96-18-4	
1,2,4-Trichlorobenzene	**<88.4**	ug/L	200	88.4	40		11/29/17 11:27	120-82-1	
1,2,4-Trimethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	95-63-6	
1,2-Dibromo-3-chloropropane	**<86.6**	ug/L	200	86.6	40		11/29/17 11:27	96-12-8	
1,2-Dibromoethane (EDB)	**<7.1**	ug/L	40.0	7.1	40		11/29/17 11:27	106-93-4	
1,2-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	95-50-1	
1,2-Dichloroethane	**<6.7**	ug/L	40.0	6.7	40		11/29/17 11:27	107-06-2	
1,2-Dichloropropane	**<9.3**	ug/L	40.0	9.3	40		11/29/17 11:27	78-87-5	
1,3,5-Trimethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	108-67-8	
1,3-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	541-73-1	
1,3-Dichloropropane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	142-28-9	
1,4-Dichlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	106-46-7	
2,2-Dichloropropane	**<19.4**	ug/L	40.0	19.4	40		11/29/17 11:27	594-20-7	
2-Chlorotoluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	95-49-8	
4-Chlorotoluene	**<8.5**	ug/L	40.0	8.5	40		11/29/17 11:27	106-43-4	
Benzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	71-43-2	
Bromobenzene	**<9.2**	ug/L	40.0	9.2	40		11/29/17 11:27	108-86-1	
Bromochloromethane	**<13.6**	ug/L	40.0	13.6	40		11/29/17 11:27	74-97-5	
Bromodichloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	75-27-4	
Bromoform	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	75-25-2	
Bromomethane	**<97.4**	ug/L	200	97.4	40		11/29/17 11:27	74-83-9	
Carbon tetrachloride	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	56-23-5	
Chlorobenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	108-90-7	
Chloroethane	**<15.0**	ug/L	40.0	15.0	40		11/29/17 11:27	75-00-3	
Chloroform	**<100**	ug/L	200	100	40		11/29/17 11:27	67-66-3	
Chloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	74-87-3	
Dibromochloromethane	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	124-48-1	
Dibromomethane	**<17.1**	ug/L	40.0	17.1	40		11/29/17 11:27	74-95-3	
Dichlorodifluoromethane	**<9.0**	ug/L	40.0	9.0	40		11/29/17 11:27	75-71-8	
Diisopropyl ether	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	108-20-3	
Ethylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	100-41-4	
Hexachloro-1,3-butadiene	**<84.2**	ug/L	200	84.2	40		11/29/17 11:27	87-68-3	
Isopropylbenzene (Cumene)	**<5.7**	ug/L	40.0	5.7	40		11/29/17 11:27	98-82-8	
Methyl-tert-butyl ether	**<7.0**	ug/L	40.0	7.0	40		11/29/17 11:27	1634-04-4	
Methylene Chloride	**<9.3**	ug/L	40.0	9.3	40		11/29/17 11:27	75-09-2	
Naphthalene	**<100**	ug/L	200	100	40		11/29/17 11:27	91-20-3	
Styrene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	100-42-5	
Tetrachloroethene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: DUP-2 **Lab ID: 40161315020** Collected: 11/21/17 00:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	108-88-3	
Trichloroethene	**2910**	ug/L	40.0	13.2	40		11/29/17 11:27	79-01-6	
Trichlorofluoromethane	**<7.4**	ug/L	40.0	7.4	40		11/29/17 11:27	75-69-4	
Vinyl chloride	**<7.0**	ug/L	40.0	7.0	40		11/29/17 11:27	75-01-4	
cis-1,2-Dichloroethene	**<10.2**	ug/L	40.0	10.2	40		11/29/17 11:27	156-59-2	
cis-1,3-Dichloropropene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	10061-01-5	
m&p-Xylene	**<40.0**	ug/L	80.0	40.0	40		11/29/17 11:27	179601-23-1	
n-Butylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	104-51-8	
n-Propylbenzene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	103-65-1	
o-Xylene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	95-47-6	
p-Isopropyltoluene	**<20.0**	ug/L	40.0	20.0	40		11/29/17 11:27	99-87-6	
sec-Butylbenzene	**<87.4**	ug/L	200	87.4	40		11/29/17 11:27	135-98-8	
tert-Butylbenzene	**<7.2**	ug/L	40.0	7.2	40		11/29/17 11:27	98-06-6	
trans-1,2-Dichloroethene	**<10.3**	ug/L	40.0	10.3	40		11/29/17 11:27	156-60-5	
trans-1,3-Dichloropropene	**<9.2**	ug/L	40.0	9.2	40		11/29/17 11:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-130		40		11/29/17 11:27	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		40		11/29/17 11:27	1868-53-7	
Toluene-d8 (S)	98	%	70-130		40		11/29/17 11:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: TRIP BLANK **Lab ID: 40161315021** Collected: 11/20/17 00:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:34	630-20-6	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		11/29/17 13:34	79-34-5	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		11/29/17 13:34	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		11/29/17 13:34	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		11/29/17 13:34	75-35-4	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		11/29/17 13:34	563-58-6	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 13:34	87-61-6	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	96-18-4	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:34	120-82-1	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	95-63-6	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:34	96-12-8	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:34	106-93-4	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	95-50-1	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		11/29/17 13:34	107-06-2	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:34	78-87-5	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	108-67-8	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	541-73-1	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	142-28-9	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	106-46-7	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		11/29/17 13:34	594-20-7	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		11/29/17 13:34	106-43-4	
Benzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:34	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		11/29/17 13:34	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		11/29/17 13:34	74-83-9	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		11/29/17 13:34	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		11/29/17 13:34	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	74-87-3	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	124-48-1	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		11/29/17 13:34	74-95-3	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		11/29/17 13:34	75-71-8	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		11/29/17 13:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		11/29/17 13:34	98-82-8	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		11/29/17 13:34	1634-04-4	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:34	75-09-2	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		11/29/17 13:34	91-20-3	
Styrene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	100-42-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Sample: TRIP BLANK **Lab ID: 40161315021** Collected: 11/20/17 00:00 Received: 11/22/17 14:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	108-88-3	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		11/29/17 13:34	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:34	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:34	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 13:34	156-59-2	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	10061-01-5	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		11/29/17 13:34	179601-23-1	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	104-51-8	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	103-65-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	95-47-6	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		11/29/17 13:34	99-87-6	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		11/29/17 13:34	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		11/29/17 13:34	98-06-6	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		11/29/17 13:34	156-60-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		11/29/17 13:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		11/29/17 13:34	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		11/29/17 13:34	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		11/29/17 13:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

QC Batch: 275230 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40161315001, 40161315002, 40161315003, 40161315004, 40161315005, 40161315006, 40161315007, 40161315008, 40161315009, 40161315010, 40161315011, 40161315012, 40161315013, 40161315014, 40161315015, 40161315016, 40161315017, 40161315018, 40161315019, 40161315020

METHOD BLANK: 1619378 Matrix: Water
Associated Lab Samples: 40161315001, 40161315002, 40161315003, 40161315004, 40161315005, 40161315006, 40161315007, 40161315008, 40161315009, 40161315010, 40161315011, 40161315012, 40161315013, 40161315014, 40161315015, 40161315016, 40161315017, 40161315018, 40161315019, 40161315020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	11/29/17 08:04	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	11/29/17 08:04	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	11/29/17 08:04	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	11/29/17 08:04	
1,1-Dichloroethane	ug/L	<0.24	1.0	11/29/17 08:04	
1,1-Dichloroethene	ug/L	<0.41	1.0	11/29/17 08:04	
1,1-Dichloropropene	ug/L	<0.44	1.0	11/29/17 08:04	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	11/29/17 08:04	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	11/29/17 08:04	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	11/29/17 08:04	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/29/17 08:04	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	11/29/17 08:04	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	11/29/17 08:04	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	11/29/17 08:04	
1,2-Dichloroethane	ug/L	<0.17	1.0	11/29/17 08:04	
1,2-Dichloropropane	ug/L	<0.23	1.0	11/29/17 08:04	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/29/17 08:04	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	11/29/17 08:04	
1,3-Dichloropropane	ug/L	<0.50	1.0	11/29/17 08:04	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	11/29/17 08:04	
2,2-Dichloropropane	ug/L	<0.48	1.0	11/29/17 08:04	
2-Chlorotoluene	ug/L	<0.50	1.0	11/29/17 08:04	
4-Chlorotoluene	ug/L	<0.21	1.0	11/29/17 08:04	
Benzene	ug/L	<0.50	1.0	11/29/17 08:04	
Bromobenzene	ug/L	<0.23	1.0	11/29/17 08:04	
Bromochloromethane	ug/L	<0.34	1.0	11/29/17 08:04	
Bromodichloromethane	ug/L	<0.50	1.0	11/29/17 08:04	
Bromoform	ug/L	<0.50	1.0	11/29/17 08:04	
Bromomethane	ug/L	<2.4	5.0	11/29/17 08:04	
Carbon tetrachloride	ug/L	<0.50	1.0	11/29/17 08:04	
Chlorobenzene	ug/L	<0.50	1.0	11/29/17 08:04	
Chloroethane	ug/L	<0.37	1.0	11/29/17 08:04	
Chloroform	ug/L	<2.5	5.0	11/29/17 08:04	
Chloromethane	ug/L	<0.50	1.0	11/29/17 08:04	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	11/29/17 08:04	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	11/29/17 08:04	
Dibromochloromethane	ug/L	<0.50	1.0	11/29/17 08:04	
Dibromomethane	ug/L	<0.43	1.0	11/29/17 08:04	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

METHOD BLANK: 1619378 Matrix: Water

Associated Lab Samples: 40161315001, 40161315002, 40161315003, 40161315004, 40161315005, 40161315006, 40161315007, 40161315008, 40161315009, 40161315010, 40161315011, 40161315012, 40161315013, 40161315014, 40161315015, 40161315016, 40161315017, 40161315018, 40161315019, 40161315020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.22	1.0	11/29/17 08:04	
Diisopropyl ether	ug/L	<0.50	1.0	11/29/17 08:04	
Ethylbenzene	ug/L	<0.50	1.0	11/29/17 08:04	
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	11/29/17 08:04	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	11/29/17 08:04	
m&p-Xylene	ug/L	<1.0	2.0	11/29/17 08:04	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	11/29/17 08:04	
Methylene Chloride	ug/L	<0.23	1.0	11/29/17 08:04	
n-Butylbenzene	ug/L	<0.50	1.0	11/29/17 08:04	
n-Propylbenzene	ug/L	<0.50	1.0	11/29/17 08:04	
Naphthalene	ug/L	<2.5	5.0	11/29/17 08:04	
o-Xylene	ug/L	<0.50	1.0	11/29/17 08:04	
p-Isopropyltoluene	ug/L	<0.50	1.0	11/29/17 08:04	
sec-Butylbenzene	ug/L	<2.2	5.0	11/29/17 08:04	
Styrene	ug/L	<0.50	1.0	11/29/17 08:04	
tert-Butylbenzene	ug/L	<0.18	1.0	11/29/17 08:04	
Tetrachloroethene	ug/L	<0.50	1.0	11/29/17 08:04	
Toluene	ug/L	<0.50	1.0	11/29/17 08:04	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	11/29/17 08:04	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	11/29/17 08:04	
Trichloroethene	ug/L	<0.33	1.0	11/29/17 08:04	
Trichlorofluoromethane	ug/L	<0.18	1.0	11/29/17 08:04	
Vinyl chloride	ug/L	<0.18	1.0	11/29/17 08:04	
4-Bromofluorobenzene (S)	%	97	61-130	11/29/17 08:04	
Dibromofluoromethane (S)	%	103	67-130	11/29/17 08:04	
Toluene-d8 (S)	%	97	70-130	11/29/17 08:04	

LABORATORY CONTROL SAMPLE: 1619379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.9	96	70-130	
1,1,2-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	53.9	108	71-132	
1,1-Dichloroethene	ug/L	50	50.6	101	75-130	
1,2,4-Trichlorobenzene	ug/L	50	46.9	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,2-Dichloroethane	ug/L	50	50.8	102	70-131	
1,2-Dichloropropane	ug/L	50	48.6	97	80-120	
1,3-Dichlorobenzene	ug/L	50	49.3	99	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

LABORATORY CONTROL SAMPLE: 1619379

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.4	99	70-130	
Benzene	ug/L	50	51.6	103	73-145	
Bromodichloromethane	ug/L	50	46.6	93	70-130	
Bromoform	ug/L	50	42.8	86	67-130	
Bromomethane	ug/L	50	31.3	63	26-128	
Carbon tetrachloride	ug/L	50	48.3	97	70-133	
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroethane	ug/L	50	43.4	87	58-120	
Chloroform	ug/L	50	51.2	102	80-121	
Chloromethane	ug/L	50	38.2	76	40-127	
cis-1,2-Dichloroethene	ug/L	50	48.7	97	70-130	
cis-1,3-Dichloropropene	ug/L	50	43.5	87	70-130	
Dibromochloromethane	ug/L	50	44.0	88	70-130	
Dichlorodifluoromethane	ug/L	50	32.6	65	20-135	
Ethylbenzene	ug/L	50	51.7	103	87-129	
Isopropylbenzene (Cumene)	ug/L	50	54.0	108	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	48.5	97	66-143	
Methylene Chloride	ug/L	50	50.6	101	70-130	
o-Xylene	ug/L	50	51.6	103	70-130	
Styrene	ug/L	50	52.4	105	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Toluene	ug/L	50	49.8	100	82-130	
trans-1,2-Dichloroethene	ug/L	50	53.4	107	75-132	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	70-130	
Trichloroethene	ug/L	50	51.5	103	70-130	
Trichlorofluoromethane	ug/L	50	45.5	91	76-133	
Vinyl chloride	ug/L	50	45.1	90	57-136	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			103	67-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620332 1620333

Parameter	Units	40161315005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.6	55.3	111	111	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	51.8	54.3	104	109	70-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	53.2	53.3	106	107	70-130	0	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	56.3	56.9	113	114	71-133	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	55.1	57.5	110	115	75-136	4	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	51.5	53.8	103	108	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	46.6	47.8	93	96	63-123	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.5	52.9	105	106	70-130	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620332 1620333

Parameter	Units	40161315005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.5	54.7	103	109	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	54.3	55.6	109	111	70-131	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	52.1	52.4	104	105	80-120	0	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	51.8	52.9	104	106	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	51.9	53.6	104	107	70-130	3	20	
Benzene	ug/L	<0.50	50	50	53.9	55.2	108	110	73-145	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.6	49.6	99	99	70-130	0	20	
Bromoform	ug/L	<0.50	50	50	46.5	46.7	93	93	67-130	1	20	
Bromomethane	ug/L	<2.4	50	50	35.0	37.5	70	75	26-129	7	20	
Carbon tetrachloride	ug/L	<0.50	50	50	50.8	52.1	102	104	70-134	2	20	
Chlorobenzene	ug/L	<0.50	50	50	53.5	53.9	107	108	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	45.0	46.7	90	93	58-120	4	20	
Chloroform	ug/L	<2.5	50	50	54.5	54.7	109	109	80-121	0	20	
Chloromethane	ug/L	<0.50	50	50	41.0	40.8	82	82	40-128	0	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	51.4	52.6	103	105	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	46.8	47.5	94	95	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	47.4	49.1	95	98	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	35.1	34.6	70	69	20-146	1	20	
Ethylbenzene	ug/L	<0.50	50	50	55.3	55.9	111	112	87-129	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	58.2	57.4	116	115	70-130	2	20	
m&p-Xylene	ug/L	<1.0	100	100	112	112	112	112	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	52.1	52.2	104	104	66-143	0	20	
Methylene Chloride	ug/L	<0.23	50	50	52.2	53.9	104	108	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	54.8	55.4	110	111	70-130	1	20	
Styrene	ug/L	<0.50	50	50	56.4	56.1	113	112	70-130	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	50.7	50.9	101	102	70-130	0	20	
Toluene	ug/L	<0.50	50	50	53.2	53.6	106	107	82-131	1	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	55.7	56.1	111	112	75-135	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	46.1	46.4	92	93	70-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	55.2	55.0	110	110	70-130	0	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	52.6	54.1	105	108	76-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	47.1	47.0	94	94	56-143	0	20	
4-Bromofluorobenzene (S)	%						103	102	61-130			
Dibromofluoromethane (S)	%						107	105	67-130			
Toluene-d8 (S)	%						100	100	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

QC Batch: 275529 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40161315021

METHOD BLANK: 1620474 Matrix: Water
Associated Lab Samples: 40161315021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	11/29/17 08:05	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	11/29/17 08:05	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	11/29/17 08:05	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	11/29/17 08:05	
1,1-Dichloroethane	ug/L	<0.24	1.0	11/29/17 08:05	
1,1-Dichloroethene	ug/L	<0.41	1.0	11/29/17 08:05	
1,1-Dichloropropene	ug/L	<0.44	1.0	11/29/17 08:05	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	11/29/17 08:05	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	11/29/17 08:05	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	11/29/17 08:05	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	11/29/17 08:05	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	11/29/17 08:05	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	11/29/17 08:05	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	11/29/17 08:05	
1,2-Dichloroethane	ug/L	<0.17	1.0	11/29/17 08:05	
1,2-Dichloropropane	ug/L	<0.23	1.0	11/29/17 08:05	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	11/29/17 08:05	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	11/29/17 08:05	
1,3-Dichloropropane	ug/L	<0.50	1.0	11/29/17 08:05	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	11/29/17 08:05	
2,2-Dichloropropane	ug/L	<0.48	1.0	11/29/17 08:05	
2-Chlorotoluene	ug/L	<0.50	1.0	11/29/17 08:05	
4-Chlorotoluene	ug/L	<0.21	1.0	11/29/17 08:05	
Benzene	ug/L	<0.50	1.0	11/29/17 08:05	
Bromobenzene	ug/L	<0.23	1.0	11/29/17 08:05	
Bromochloromethane	ug/L	<0.34	1.0	11/29/17 08:05	
Bromodichloromethane	ug/L	<0.50	1.0	11/29/17 08:05	
Bromoform	ug/L	<0.50	1.0	11/29/17 08:05	
Bromomethane	ug/L	<2.4	5.0	11/29/17 08:05	
Carbon tetrachloride	ug/L	<0.50	1.0	11/29/17 08:05	
Chlorobenzene	ug/L	<0.50	1.0	11/29/17 08:05	
Chloroethane	ug/L	<0.37	1.0	11/29/17 08:05	
Chloroform	ug/L	<2.5	5.0	11/29/17 08:05	
Chloromethane	ug/L	<0.50	1.0	11/29/17 08:05	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	11/29/17 08:05	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	11/29/17 08:05	
Dibromochloromethane	ug/L	<0.50	1.0	11/29/17 08:05	
Dibromomethane	ug/L	<0.43	1.0	11/29/17 08:05	
Dichlorodifluoromethane	ug/L	<0.22	1.0	11/29/17 08:05	
Diisopropyl ether	ug/L	<0.50	1.0	11/29/17 08:05	
Ethylbenzene	ug/L	<0.50	1.0	11/29/17 08:05	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

METHOD BLANK: 1620474 Matrix: Water
Associated Lab Samples: 40161315021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	11/29/17 08:05	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	11/29/17 08:05	
m&p-Xylene	ug/L	<1.0	2.0	11/29/17 08:05	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	11/29/17 08:05	
Methylene Chloride	ug/L	<0.23	1.0	11/29/17 08:05	
n-Butylbenzene	ug/L	<0.50	1.0	11/29/17 08:05	
n-Propylbenzene	ug/L	<0.50	1.0	11/29/17 08:05	
Naphthalene	ug/L	<2.5	5.0	11/29/17 08:05	
o-Xylene	ug/L	<0.50	1.0	11/29/17 08:05	
p-Isopropyltoluene	ug/L	<0.50	1.0	11/29/17 08:05	
sec-Butylbenzene	ug/L	<2.2	5.0	11/29/17 08:05	
Styrene	ug/L	<0.50	1.0	11/29/17 08:05	
tert-Butylbenzene	ug/L	<0.18	1.0	11/29/17 08:05	
Tetrachloroethene	ug/L	<0.50	1.0	11/29/17 08:05	
Toluene	ug/L	<0.50	1.0	11/29/17 08:05	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	11/29/17 08:05	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	11/29/17 08:05	
Trichloroethene	ug/L	<0.33	1.0	11/29/17 08:05	
Trichlorofluoromethane	ug/L	<0.18	1.0	11/29/17 08:05	
Vinyl chloride	ug/L	<0.18	1.0	11/29/17 08:05	
4-Bromofluorobenzene (S)	%	85	61-130	11/29/17 08:05	
Dibromofluoromethane (S)	%	104	67-130	11/29/17 08:05	
Toluene-d8 (S)	%	104	70-130	11/29/17 08:05	

LABORATORY CONTROL SAMPLE: 1620475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.2	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.7	101	70-130	
1,1,2-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1-Dichloroethane	ug/L	50	54.8	110	71-132	
1,1-Dichloroethene	ug/L	50	55.6	111	75-130	
1,2,4-Trichlorobenzene	ug/L	50	39.0	78	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.9	96	63-123	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	43.2	86	70-130	
1,2-Dichloroethane	ug/L	50	53.7	107	70-131	
1,2-Dichloropropane	ug/L	50	51.7	103	80-120	
1,3-Dichlorobenzene	ug/L	50	45.8	92	70-130	
1,4-Dichlorobenzene	ug/L	50	46.5	93	70-130	
Benzene	ug/L	50	54.8	110	73-145	
Bromodichloromethane	ug/L	50	51.2	102	70-130	
Bromoform	ug/L	50	45.7	91	67-130	
Bromomethane	ug/L	50	38.6	77	26-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

LABORATORY CONTROL SAMPLE: 1620475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	55.5	111	70-133	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	53.3	107	58-120	
Chloroform	ug/L	50	52.0	104	80-121	
Chloromethane	ug/L	50	39.8	80	40-127	
cis-1,2-Dichloroethene	ug/L	50	50.4	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Dibromochloromethane	ug/L	50	49.4	99	70-130	
Dichlorodifluoromethane	ug/L	50	39.9	80	20-135	
Ethylbenzene	ug/L	50	52.7	105	87-129	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	53.9	108	66-143	
Methylene Chloride	ug/L	50	50.3	101	70-130	
o-Xylene	ug/L	50	52.5	105	70-130	
Styrene	ug/L	50	46.7	93	70-130	
Tetrachloroethene	ug/L	50	46.9	94	70-130	
Toluene	ug/L	50	51.2	102	82-130	
trans-1,2-Dichloroethene	ug/L	50	54.5	109	75-132	
trans-1,3-Dichloropropene	ug/L	50	46.5	93	70-130	
Trichloroethene	ug/L	50	51.8	104	70-130	
Trichlorofluoromethane	ug/L	50	53.4	107	76-133	
Vinyl chloride	ug/L	50	51.0	102	57-136	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			104	67-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620631 1620632

Parameter	Units	40161380001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	56.6	58.2	113	116	70-134	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	55.8	54.3	112	109	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	52.7	54.0	105	108	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	57.9	58.8	116	118	71-133	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	56.9	58.1	114	116	75-136	2	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	42.8	42.6	86	85	70-130	0	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	50.9	49.4	102	99	63-123	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	52.1	51.9	104	104	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	47.3	47.2	95	94	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	54.2	54.7	108	109	70-131	1	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	54.5	55.0	109	110	80-120	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	48.9	49.1	98	98	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.6	49.4	99	99	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1620631 1620632

Parameter	Units	40161380001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	57.2	58.4	114	117	73-145	2	20	
Bromodichloromethane	ug/L	<0.50	50	50	54.6	55.1	109	110	70-130	1	20	
Bromoform	ug/L	<0.50	50	50	46.3	46.9	93	94	67-130	1	20	
Bromomethane	ug/L	<2.4	50	50	40.4	41.8	81	84	26-129	3	20	
Carbon tetrachloride	ug/L	<0.50	50	50	58.2	58.8	116	118	70-134	1	20	
Chlorobenzene	ug/L	<0.50	50	50	52.5	52.9	105	106	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	55.8	56.7	112	113	58-120	2	20	
Chloroform	ug/L	<2.5	50	50	54.1	55.1	108	110	80-121	2	20	
Chloromethane	ug/L	<0.50	50	50	41.1	41.5	81	82	40-128	1	20	
cis-1,2-Dichloroethene	ug/L	0.45J	50	50	53.0	54.2	105	107	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	49.5	49.8	99	100	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	52.5	52.9	105	106	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	40.2	41.3	80	83	20-146	3	20	
Ethylbenzene	ug/L	<0.50	50	50	55.3	56.5	111	113	87-129	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	55.3	56.4	111	113	70-130	2	20	
m&p-Xylene	ug/L	<1.0	100	100	113	114	113	114	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	57.2	56.6	114	113	66-143	1	20	
Methylene Chloride	ug/L	<0.23	50	50	54.1	54.4	108	109	70-130	0	20	
o-Xylene	ug/L	<0.50	50	50	54.9	55.3	110	111	70-130	1	20	
Styrene	ug/L	<0.50	50	50	49.0	50.3	98	101	70-130	3	20	
Tetrachloroethene	ug/L	1.2	50	50	52.2	53.4	102	104	70-130	2	20	
Toluene	ug/L	<0.50	50	50	53.7	55.1	107	110	82-131	3	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	58.0	58.9	116	118	75-135	2	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	48.3	48.9	97	98	70-130	1	20	
Trichloroethene	ug/L	3.1	50	50	57.8	59.3	109	112	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	55.4	57.2	111	114	76-150	3	20	
Vinyl chloride	ug/L	<0.18	50	50	52.5	53.9	105	108	56-143	3	20	
4-Bromofluorobenzene (S)	%						98	97	61-130			
Dibromofluoromethane (S)	%						105	105	67-130			
Toluene-d8 (S)	%						101	102	70-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FORMER TRENT TUBE PLANT 1 TT1
Pace Project No.: 40161315

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161315001	**MW-1R**	EPA 8260	275230		
40161315002	**MW-2**	EPA 8260	275230		
40161315003	**MW-4**	EPA 8260	275230		
40161315004	**MW-7**	EPA 8260	275230		
40161315005	**MW-11**	EPA 8260	275230		
40161315006	**MW-12**	EPA 8260	275230		
40161315007	**MW-15**	EPA 8260	275230		
40161315008	**MW-16**	EPA 8260	275230		
40161315009	**MW-17R**	EPA 8260	275230		
40161315010	**MW-19**	EPA 8260	275230		
40161315011	**MW-20**	EPA 8260	275230		
40161315012	**MW-25**	EPA 8260	275230		
40161315013	**MW-27**	EPA 8260	275230		
40161315014	**MW-29**	EPA 8260	275230		
40161315015	**MW-37**	EPA 8260	275230		
40161315016	**OP-2**	EPA 8260	275230		
40161315017	**OP-3**	EPA 8260	275230		
40161315018	**OP-9**	EPA 8260	275230		
40161315019	**DUP-1**	EPA 8260	275230		
40161315020	**DUP-2**	EPA 8260	275230		
40161315021	**TRIP BLANK**	EPA 8260	275529		

40161315

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	RJRudy LLC	Report To:	Rick Rudy (rickrudy@rjrudyllc.com)	Attention:	Rick Rudy
Address:	500 Ridge Rd	Copy To:	Cary Hudson (chudson@rjrudyllc.com)	Company Name:	RJRudy LLC
	Ward, CO 80481			Address:	500 Ridge Road, Ward CO 80481
Email:	rickrudy@rjrudyllc.com	Purchase Order #:		Pace Quote:	
Phone:	(303) 570-5604 Fax (303) 459-0164	Project Name:	Former Trent Tube Plant 1 (TT1)	Pace Project Manager:	Chris Hyska
Requested Due Date:	STANDARD TAT	Project #:	—	Pace Profile #:	

Regulatory Agency	State / Location
	WI

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: VOC by 8260	Residual Chlorine (Y/N)
1	MW-1R 001	WT	G			11/21/17	1115		3				3					N	X	3-40mW B
2	MW-2 002	WT	G			11/21/17	1055		3				3						X	
3	MW-4 003	WT	G			11/20/17	1615		3				3						X	
~~4~~	~~MW-6~~	~~WT~~							—				—						X	
5	MW-7 004	WT	G			11/20/17	1605		3				3						X	
6	MW-11 005	WT	G			11/21/17	1030		3				3						X	
7	MW-12 006	WT	G			11/20/17	1550		3				3						X	
8	MW-15 007	WT	G			11/20/17	1555		3				3						X	
9	MW-16 008	WT	G			11/20/17	1620		3				3						X	
10	MW-17R 009	WT	G			11/20/17	1625		3				3						X	
11	MW-19 010	WT	G			11/21/17	1000		3				3						X	
12	MW-20 011	WT	G			11/20/17	1600		3				3						X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MATTHEW BAAKE / SAMPLER	11/22/17	700	Mary Fannin	11/22/17	11:45				
	Mary Fannin	11/22/17	1330	Robert Lee Rau	11/22/17	1330				
	Robert Lee Rau	11/22/17	1450	Kate Holsen Pace	11/22/17	1450	RU	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MATTHEW BAAKE

SIGNATURE of SAMPLER: Matthew Baake DATE Signed: 11/21/17

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

40161315

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	RJRudy LLC	Report To:	Rick Rudy (rickrudy@rjrudyllc.com)	Attention:	Rick Rudy
Address:	500 Ridge Rd	Copy To:	Cary Hudson (chudson@rjrudyllc.com)	Company Name:	RJRudy LLC
	Ward, CO 80481			Address:	500 Ridge Road, Ward CO 80481
Email:	rickrudy@rjrudyllc.com	Purchase Order #:		Pace Quote:	
Phone:	(303) 570-5604 Fax (303) 459-0164	Project Name:	Former Trent Tube Plant 1 (TT1)	Pace Project Manager:	Chris Hyska
Requested Due Date:	STANDARD TAT	Project #:	—	Pace Profile #:	

Regulatory Agency	
State / Location	WI

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: VOC by 8260	Residual Chlorine (Y/N)	
~~13~~	~~MW-23~~		~~WT~~				—	—		1				1						*		
14	MW-25	012	WT	G			11/21/17	1200		3				3						X		3-40mlvB
15	MW-27	013	WT	G			11/21/17	1220		3				3						X		
16	MW-29	014	WT	G			11/21/17	1245		3				3						X		
17	MW-37	015	WT	G			11/20/17	1630		3				3						X		
18	OP-2	016	WT	G			11/20/17	1610		3				3						X		
19	OP-3	017	WT	G			11/20/17	1345		3				3						X		
20	OP-9	018	WT	G			11/20/17	1330		3				3						X		
21	DUP-1	019	WT	G			11/21/17	—		3				3						X		
22	DUP-2	020	WT	G			11/21/17	—		3				3						X		
23	Trip Blank	021	WT				11/20/17	—		2				2						X		2-40mlvB
24																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	MATTHEW BAAKE/SAMPLER	11/22/17	700	Mary Fannin	11/22/17	11:45				
	Mary Fannin	11/22/17	1330	Rachel Lu Rae	11/22/17	1330				
	Rachel Lu Rae	11/22/17	1450	Kathi Johnson-Pace	11/22/17	1450	R01	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: MATTHEW BAAKE

SIGNATURE of SAMPLER: [signature] DATE Signed: 11/21/17

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project # **WO# : 40161315**

40161315

Client Name: RJ Ruby LLC

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☑ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: 2.0 1 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☑ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 11/22/17
Initials: RMN

			Comments:
Chain of Custody Present:	☑Yes	☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No	Date/Time: RMN 11/22/17
Short Hold Time Analysis (<72hr): RMN 11/22/17	☒Yes	☐No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume: 11/27/17	☑Yes	☐No ☐N/A	8. NO MS/MSD RMN 11/22/17
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
-Pace IR Containers Used:	☐Yes	☐No ☑N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDRO/W, Phenolics, OTHER:	☑Yes	☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☑No ☐N/A	14.
Trip Blank Present:	☑Yes	☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 388			

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 11/27/17

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-1R Date Sampled: 11/21/17

Previous Well Sampled: MW-2 Time Sampled: 1115

Ambient Temperature (°F): 40 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended: --

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): -- from ground surface

Depth to Water: 13.98 feet below top of casing

Depth to Bottom: 25.12 feet below top of casing

Length of Water: 11.14 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 7 gallons

Volume Purged: 7 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: -- Purge Time Ended: --

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

DUP-1

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-2 Date Sampled: 11/21/17

Previous Well Sampled: MW-11 Time Sampled: 1055

Ambient Temperature (°F): 40 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended: --

WELL DATA

Water Level Instrument: Heron H.Oil

(Stick-Up) or Down (if measured): ~ from ground surface

Depth to Water: 11.25 feet below top of casing

Depth to Bottom: 18.95 feet below top of casing

Length of Water: 7.70 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 5 gallons

Volume Purged: 5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: -- Purge Time Ended: --

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

DUP-2

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-4 Date Sampled: 11/20/17

Previous Well Sampled: OP-2 Time Sampled: 1615

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS Comments

Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended: --

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 14.17 feet below top of casing

Depth to Bottom: 22.02 feet below top of casing

Length of Water: 7.85 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 5 gallons

Volume Purged: 5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: —

Well Number: MW-6 Date Sampled: ~~11/21/17~~

Previous Well Sampled: — Time Sampled: —

Ambient Temperature (°F): — [ ] Humid [ ] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS Comments

Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 19.20 feet below top of casing (*)

Depth to Bottom: 19.59 feet below top of casing

Length of Water: 0.39 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 0.25 gallons (*) → LIKELY CONDENSATION TRAPPED IN WELL TIP; NOT ACTUAL GROUNDWATER

Volume Purged: ~300mL ~~gallons~~

Could Well Bail Dry? [X] Yes [ ] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [ ] None [ ] Moderate [ ] Low [ ] High

Odor:

Color:

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

DRY ON 11/21/17 → NOT SAMPLED

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-7 Date Sampled: 11/20/17

Previous Well Sampled: MW-20 Time Sampled: 1605

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	WIGGLES
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 6.91 feet below top of casing

Depth to Bottom: 13.83 feet below top of casing

Length of Water: 6.92 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 4.5 gallons

Volume Purged: 4.5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI | Job Number: --

Location: East Troy, WI | Sampler: MTB

Well Number: MW-11 | Date Sampled: 11/21/17

Previous Well Sampled: MW-19 | Time Sampled: 1030

Ambient Temperature (°F): 40 | [ ] Humid | [X] Windy | [ ] Rainy | [ ] Snowy

WELL CONDITIONS

			Comments
Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	NO BOLTS ; EXPANDABLE CAP IS LOCKED

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or (Down) (if measured): — from ground surface

Depth to Water: 12.05 feet below top of casing

Depth to Bottom: 18.50 feet below top of casing

Length of Water: 6.45 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 4 gallons

Volume Purged: 4 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-12 Date Sampled: 11/30/17

Previous Well Sampled: OP-3 Time Sampled: 1550

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

			Comments
Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 14.09 feet below top of casing

Depth to Bottom: 20.68 feet below top of casing

Length of Water: 6.59 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 4.5 gallons

Volume Purged: 4.5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-15 Date Sampled: 11/29/17

Previous Well Sampled: MW-12 Time Sampled: 1555

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X]	OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X]	OK	[ ] Damaged / Missing	
Well Cap:	[X]	OK	[ ] Damaged / Missing	
Bolts / Lock:	[X]	OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 16.02 feet below top of casing

Depth to Bottom: 18.92 feet below top of casing

Length of Water: 2.90 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 2 gallons

Volume Purged: ≈ 2 gallons

Could Well Bail Dry? [X] Yes [ ] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [ ] None [ ] Moderate [X] Low [ ] High

Odor: NONE

Color: CLEAR-ISH

[X] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-16 Date Sampled: 11/20/17

Previous Well Sampled: MW-4 Time Sampled: 1620

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS Comments

Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 12.59 feet below top of casing

Depth to Bottom: 26.57 feet below top of casing

Length of Water: 13.98 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 9 gallons

Volume Purged: 9 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: H_2S

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-17R Date Sampled: 11/20/17

Previous Well Sampled: MW-16 Time Sampled: 1625

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended: --

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): -- from ground surface

Depth to Water: 7.50 feet below top of casing

Depth to Bottom: 19.25 feet below top of casing

Length of Water: 11.75 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 7.5 gallons

Volume Purged: 7.5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: -- Purge Time Ended: --

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: H_2S

Color: CLEAR

[ ] Opaque?

Comments:

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-19 Date Sampled: 11/21/17

Previous Well Sampled: — Time Sampled: 1000

Ambient Temperature (°F): 40 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	WIGGLES
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 4.79 feet below top of casing

Depth to Bottom: 10.39 feet below top of casing

Length of Water: 5.60 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 3.5 gallons

Volume Purged: ≈1.5 gallons

Could Well Bail Dry? [X] Yes [ ] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [ ] None [X] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-20 Date Sampled: 11/20/17

Previous Well Sampled: MW-15 Time Sampled: 1600

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS Comments

Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended: --

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): -- from ground surface

Depth to Water: 5.75 feet below top of casing

Depth to Bottom: 11.38 feet below top of casing

Length of Water: 5.63 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 4 gallons

Volume Purged: 4 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: -- Purge Time Ended: --

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

Comments: --

SAMPLES COLLECTED

VOCs	[X]	[ ]
Metals	[ ]	[ ]
PAHs	[ ]	[ ]
PVOCs	[ ]	[ ]
	[ ]	[ ]

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: —

Well Number: MW-23 Date Sampled: ~~11/21/17~~

Previous Well Sampled: — Time Sampled: —

Ambient Temperature (°F): ____ [ ] Humid [ ] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[ ] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[ ] OK	[ ]	Damaged / Missing	
Well Cap:	[ ] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[ ] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended: ____

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): ____ from ground surface

Depth to Water: ____ feet below top of casing

Depth to Bottom: ____ feet below top of casing

Length of Water: ____ feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: ____ gallons

Volume Purged: ____ gallons

Could Well Bail Dry? [ ] Yes [ ] No

Purge Time Started: ____ Purge Time Ended: ____

Decon Method: --

OBSERVATIONS

Turbidity: [ ] None [ ] Moderate [ ] Low [ ] High

Odor: ____

Color: ____

[ ] Opaque?

Comments: NOT SAMPLED

UNABLE TO LOCATE — MISSING WELL

SAMPLES COLLECTED

VOCs	[X]	[ ]
Metals	[ ]	[ ]
PAHs	[ ]	[ ]
PVOCs	[ ]	[ ]
	[ ]	[ ]

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-25 Date Sampled: 11/21/17

Previous Well Sampled: MW-1R Time Sampled: 1200

Ambient Temperature (°F): 40 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS Comments

Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 6.08 feet below top of casing

Depth to Bottom: 14.97 feet below top of casing

Length of Water: 8.89 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 6 gallons

Volume Purged: 6 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: H_2S OR METHANE

Color: CLEAR

[ ] Opaque?

Comments:

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-27 Date Sampled: 11/21/17

Previous Well Sampled: MW-25 Time Sampled: 1220

Ambient Temperature (°F): 40 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 4.06 feet below top of casing

Depth to Bottom: 14.10 feet below top of casing

Length of Water: 10.04 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 6.5 gallons

Volume Purged: 6.5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: H_2S OR METHANE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI Job Number: –

Location: East Troy, WI Sampler: MTB

Well Number: MW-29 Date Sampled: 11/21/17

Previous Well Sampled: MW-27 Time Sampled: 1245

Ambient Temperature (°F): 40 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ] Damaged / Missing		
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing		
Well Cap:	[X] OK	[ ] Damaged / Missing		
Bolts / Lock:	[X] OK	[ ] Damaged / Missing		

Maintenance performed or recommended: –

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): – from ground surface

Depth to Water: 8.20 feet below top of casing

Depth to Bottom: 14.96 feet below top of casing

Length of Water: 6.76 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: – feet

PURGING / SAMPLING

Purging Device: (Bailer) or Peristaltic Pump

Sampling Device: (Bailer) or Peristaltic Pump

Volume Required: 4.5 gallons

Volume Purged: 4.5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: – Purge Time Ended: –

Decon Method: –

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: H_2S OR METHANE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: MW-37 Date Sampled: 11/20/17

Previous Well Sampled: MW-17R Time Sampled: 1630

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 8.18 feet below top of casing

Depth to Bottom: 20.82 feet below top of casing

Length of Water: 12.64 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 8 gallons

Volume Purged: 8 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: H_2S

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TTI Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: OP-2 Date Sampled: 11/20/17

Previous Well Sampled: MW-7 Time Sampled: 1610

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

			Comments
Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): -- from ground surface

Depth to Water: 18.65 feet below top of casing

Depth to Bottom: 22.54 feet below top of casing

Length of Water: 3.89 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 2.5 gallons

Volume Purged: 2.5 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: -- Purge Time Ended: --

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: OP-3 Date Sampled: 11/20/17

Previous Well Sampled: OP-9 Time Sampled: 1345

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS Comments

Surface Seal:	[X] OK	[ ] Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ] Damaged / Missing	
Well Cap:	[X] OK	[ ] Damaged / Missing	
Bolts / Lock:	[X] OK	[ ] Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 16.40 feet below top of casing

Depth to Bottom: 19.50 feet below top of casing

Length of Water: 3.10 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or (Peristaltic Pump)

Sampling Device: Bailer or (Peristaltic Pump)

Volume Required: 2 gallons

Volume Purged: 2 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE

Color: CLEAR

[ ] Opaque?

Comments:

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Groundwater Sampling Sheet

Project Name: TT1 Job Number: --

Location: East Troy, WI Sampler: MTB

Well Number: OP-9 Date Sampled: 11/20/17

Previous Well Sampled: — Time Sampled: 1330

Ambient Temperature (°F): 50 [ ] Humid [X] Windy [ ] Rainy [ ] Snowy

WELL CONDITIONS

				Comments
Surface Seal:	[X] OK	[ ]	Damaged / Missing	
Pro-Top / Flush-Mount:	[X] OK	[ ]	Damaged / Missing	
Well Cap:	[X] OK	[ ]	Damaged / Missing	
Bolts / Lock:	[X] OK	[ ]	Damaged / Missing	

Maintenance performed or recommended:

WELL DATA

Water Level Instrument: Heron H.Oil

Stick-Up or Down (if measured): — from ground surface

Depth to Water: 13.28 feet below top of casing

Depth to Bottom: 27.20 feet below top of casing

Length of Water: 13.92 feet

Free Product Observed: [ ] Yes [X] No If yes, thickness: -- feet

PURGING / SAMPLING

Purging Device: Bailer or Peristaltic Pump

Sampling Device: Bailer or Peristaltic Pump

Volume Required: 9 gallons

Volume Purged: 9 gallons

Could Well Bail Dry? [ ] Yes [X] No

Purge Time Started: — Purge Time Ended: —

Decon Method: --

OBSERVATIONS

Turbidity: [X] None [ ] Moderate [ ] Low [ ] High

Odor: NONE OR SLIGHT H_2S

Color: CLEAR

[ ] Opaque?

SAMPLES COLLECTED

VOCs	X	
Metals		
PAHs		
PVOCs		

Comments:

Groundwater Sampling Summary Sheet – Field Parameters and Measurements

Project Name: TTI
Project Number: NA
Sampler: MTB / CMR

Well ID	Sample Date and Time	Depth to Groundwater (feet btoc)	Depth to Bottom (feet btoc)	Amount of Groundwater Purged (gallons) TARGET / ACTUAL	Dissolved Oxygen (mg/l)	ORP (mV)	Conductivity (mS/cm)	Temperature (°Celcius)	pH	Color, Turbidity, Odor
MW-1R (DUP-1)	11/21/17 1115	13.98	25.12	7 / 7	2.12	-31.8	1.371	12.87	7.17	CLEAR, NO TURB, NO ODOR
MW-2 (DUP-2)	11/21/17 1055	11.25	18.95	5 / 5	3.43	-24.7	1.223	11.91	7.13	CLEAR NO TURB, NO ODOR
MW-4	11/20/17 1615	14.17	22.02	5 / 5	2.49	-16.7	0.657	12.52	6.98	CLEAR NO TURB NO ODOR
MW-6	—	19.20	19.59	0.25 DRY @ ≈300mL	—	—	—	—	—	DRY ON 11/21/17 → NOT SAMPLED
MW-7	11/20/17 1605	6.91	13.83	4.5 / 4.5	1.46	-19.8	1.842	9.65	6.88	CLEAR NO TURB NO ODOR
MW-11	11/21/17 1030	12.05	18.50	4 / 4	0.95	-181.2	1.207	11.14	6.89	CLEAR NO TURB NO ODOR
MW-12	11/20/17 1550	14.09	20.68	4.5 / 4.5	1.12	-165.3	0.912	12.19	6.89	CLEAR NO TURB NO ODOR
MW-15	11/20/17 1555	16.02	18.92	2 @ 2 DRY	1.3	-64.7	0.784	11.27	6.81	OPAQUE LOW TURB NO ODOR
MW-16	11/20/17 1680	12.59	26.57	9 / 9	1.7	-10.1	0.754	12.94	7.05	CLEAR NO TURB H_2S ODOR
MW-17R	11/20/17 1625	7.50	19.25	7.5 / 7.5	0.66	-199.8	0.778	12.7	10.9	CLEAR NO TURB H_2S ODOR
MW-19	11/21/17 1000	4.79	10.39	3.5 @ DRY 3.5	5.77	-114.6	0.861	10.63	6.69	CLEAR MOD TURB NO ODOR
MW-20	11/20/17 1600	5.75	11.38	4 / 4	1.8	-43.7	1.054	10.19	6.89	CLEAR NO TURB NO ODOR
MW-23	—	—	—	—	—	—	—	—	—	MISSING WELL — UNABLE TO LOCATE
MW-25	11/21/17 1200	6.08	14.97	6 /	1.52	-105.6	3.112	11.29	7.06	CLEAR NO TURB H_2S OR METHANE ODOR

Groundwater Sampling Summary Sheet – Field Parameters and Measurements

Project Name: TTI
Project Number: NA
Sampler: MTB/CMR

TARGET / ACTUAL

Well ID	Sample Date and Time	Depth to Groundwater (feet btoc)	Depth to Bottom (feet btoc)	Amount of Groundwater Purged (gallons)	Dissolved Oxygen (mg/l)	ORP (mV)	Conductivity (mS/cm)	Temperature (°Celcius)	pH	Color, Turbidity, Odor
MW-27	11/21/17 1220	4.06	14.10	6.5 / 6.5	1.03	-139.8	2.078	11.54	7.15	CLEAR, NO TURB, H_2S ODOR OR METHANE
MW-29	11/01/17 1245	8.20	14.96	4.5 / 4.5	5.17	-34.4	1.833	10.12	7.16	CLEAR, NO TURB, H_2S ODOR OR METHANE
MW-37	11/20/17 1630	8.18	20.82	8 / 8	8.21	8.5	0.513	13.63	7.16	CLEAR NO TURB H_2S ODOR
OP-2	11/20/17 1610	18.65	22.54	2.5 / 2.5	1.66	16.4	0.945	12.6	6.89	CLEAR NO TURB NO ODOR
OP-3	11/2/17 1345	16.40	19.50	2 / 2	2.95	-24.6	0.931	11.36	7.34	CLEAR NO TURB. NO ODOR
OP-9	11/20/17 1320	13.28	27.20	9 / 9	2.82	-169	2.448	11.07	7.15	CLEAR NO TURB NO ODOR OR SLIGHT H_2S

FIELD ENVIRONMENTAL INSTRUMENTS, INC.
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(412) 436-2600 Local
(412) 436-2616 Fax

YSI 556 MPS Calibration Certificate

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 7 @ 25C	F103-12	4/19/2018	7.64	7.00	(6.86 to 7.14)
			pH mV value	-37.0	(0 mV +/-50mV)

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 4 @ 25C	E362-04	12/29/2017	3.98	4.00	(3.92 to 4.08)
			pH mV value	133.2	(128mV to 143mV)

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
PH 10 @ 25C	F099-05	4/25/2018	9.89	10.00	(9.80 to 10.20)
			pH mV value	-204.3	(-202mV to -217mV)

Cal Standard	Lot #	Expiration	Pre-Cal Reading	Post-Cal Reading	Acceptable Range
Conductivity	E113-11	4/25/2018	1.432	1.409	(1.338 to 1.479)
			Gain	0.980	(0.9 to 1.10)

Check Standard	Temp ©	Reading	Acceptable Range
ORP	22.4	237.5	(+/- 2.0mV)
	mV Offset	47.06	(0 +/- 100)

	% Saturation	mg/L	
Dissolved Oxygen	100.0	8.72	Acceptable Range
Gain	0.89		(.7 to 1.4)

New DO Membrane: (•) Yes ( ) No

DO Cap Color: ( ) Black (•) Blue ( ) Yellow

Model	556-4 MPS
S/N	09F101784
Barcode	U83991X
Cable	81169
Order #	354451

Calibrated By: Steven Bryant

Date of Calibration: 11/17/2017 EB

*Solutions provided by LabChem (412-826-5230)

CALIBRATED AGAIN ON 11/21/17

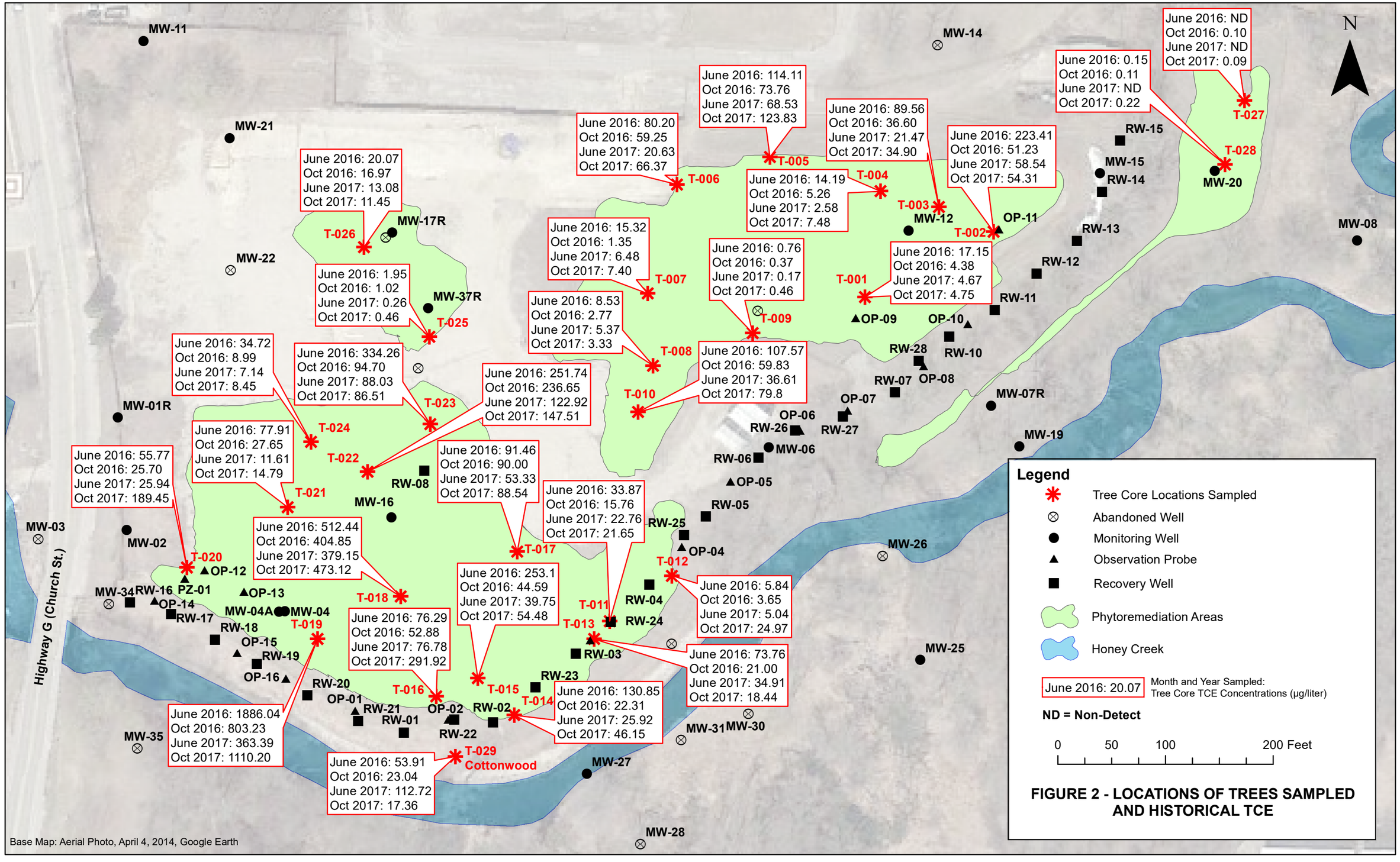
STANDARD	READING
pH 4	4.00
pH 7	7.00
pH 10	10.00
ORP 229±5	229
SpC 1.409	1.408

MTB

All calibrations performed by FEI conform to manufacturer's specifications. Please report any issues within 24 hours of receiving equipment.
All calibration solutions used are traceable to NIST. Additional documentation is available upon request.

Attachment C - Phytoremediation Analytical Data

Figure 2 - Locations of Trees Sampled and Historical TCE
Table C.1 - Tree Core Analytical Summary June 2016 - Oct 2017
Table C.2 - Tree Core Sample Results June 2016 - Oct 2017
Table C.3 - Tree Growth Comparison June 2016 - Oct 2017
Table C.4 - October 2017 UWRL Tree Core Sample Laboratory Report


N
MW-11
MW-14
MW-21
MW-22
MW-17R
MW-37R
MW-01R
MW-03
MW-02
MW-34
MW-35
MW-16
MW-08
MW-26
MW-25
MW-07R
MW-19
MW-06
MW-27
MW-28
MW-31
MW-30
MW-20
MW-15
MW-12
MW-04
MW-04A
RW-01
RW-02
RW-03
RW-04
RW-05
RW-06
RW-07
RW-08
RW-10
RW-11
RW-12
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RW-14
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RW-17
RW-18
RW-19
RW-20
RW-21
RW-22
RW-23
RW-24
RW-25
RW-26
RW-27
RW-28
OP-01
OP-02
OP-04
OP-05
OP-06
OP-07
OP-08
OP-09
OP-10
OP-11
OP-12
OP-13
OP-14
OP-15
OP-16
PZ-01
T-001
T-002
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T-010
T-011
T-012
T-013
T-014
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T-018
T-019
T-020
T-021
T-022
T-023
T-024
T-025
T-026
T-027
T-028
T-029
Cottonwood
Highway G (Church St.)
June 2016: 20.07
Oct 2016: 16.97
June 2017: 13.08
Oct 2017: 11.45
June 2016: 1.95
Oct 2016: 1.02
June 2017: 0.26
Oct 2017: 0.46
June 2016: 34.72
Oct 2016: 8.99
June 2017: 7.14
Oct 2017: 8.45
June 2016: 334.26
Oct 2016: 94.70
June 2017: 88.03
Oct 2017: 86.51
June 2016: 55.77
Oct 2016: 25.70
June 2017: 25.94
Oct 2017: 189.45
June 2016: 77.91
Oct 2016: 27.65
June 2017: 11.61
Oct 2017: 14.79
June 2016: 512.44
Oct 2016: 404.85
June 2017: 379.15
Oct 2017: 473.12
June 2016: 1886.04
Oct 2016: 803.23
June 2017: 363.39
Oct 2017: 1110.20
June 2016: 80.20
Oct 2016: 59.25
June 2017: 20.63
Oct 2017: 66.37
June 2016: 15.32
Oct 2016: 1.35
June 2017: 6.48
Oct 2017: 7.40
June 2016: 8.53
Oct 2016: 2.77
June 2017: 5.37
Oct 2017: 3.33
June 2016: 251.74
Oct 2016: 236.65
June 2017: 122.92
Oct 2017: 147.51
June 2016: 91.46
Oct 2016: 90.00
June 2017: 53.33
Oct 2017: 88.54
June 2016: 76.29
Oct 2016: 52.88
June 2017: 76.78
Oct 2017: 291.92
June 2016: 53.91
Oct 2016: 23.04
June 2017: 112.72
Oct 2017: 17.36
June 2016: 114.11
Oct 2016: 73.76
June 2017: 68.53
Oct 2017: 123.83
June 2016: 14.19
Oct 2016: 5.26
June 2017: 2.58
Oct 2017: 7.48
June 2016: 89.56
Oct 2016: 36.60
June 2017: 21.47
Oct 2017: 34.90
June 2016: 0.76
Oct 2016: 0.37
June 2017: 0.17
Oct 2017: 0.46
June 2016: 107.57
Oct 2016: 59.83
June 2017: 36.61
Oct 2017: 79.8
June 2016: 33.87
Oct 2016: 15.76
June 2017: 22.76
Oct 2017: 21.65
June 2016: 253.1
Oct 2016: 44.59
June 2017: 39.75
Oct 2017: 54.48
June 2016: 130.85
Oct 2016: 22.31
June 2017: 25.92
Oct 2017: 46.15
June 2016: 223.41
Oct 2016: 51.23
June 2017: 58.54
Oct 2017: 54.31
June 2016: 17.15
Oct 2016: 4.38
June 2017: 4.67
Oct 2017: 4.75
June 2016: 5.84
Oct 2016: 3.65
June 2017: 5.04
Oct 2017: 24.97
June 2016: 73.76
Oct 2016: 21.00
June 2017: 34.91
Oct 2017: 18.44
June 2016: 0.15
Oct 2016: 0.11
June 2017: ND
Oct 2017: 0.22
June 2016: ND
Oct 2016: 0.10
June 2017: ND
Oct 2017: 0.09
Legend
Tree Core Locations Sampled
Abandoned Well
Monitoring Well
Observation Probe
Recovery Well
Phytoremediation Areas
Honey Creek
June 2016: 20.07
Month and Year Sampled:
Tree Core TCE Concentrations (µg/liter)
ND = Non-Detect
0
50
100
200 Feet
FIGURE 2 - LOCATIONS OF TREES SAMPLED AND HISTORICAL TCE
Base Map: Aerial Photo, April 4, 2014, Google Earth

RJRudyLLC

Table C.1
Tree Core Analytical Summary June 2016 - October 2017

Sample Date	TCE	1,1 DCA	cis 1,2 DCE	PCE	1,1 DCE	trans 1,2-DCE	1,2 DCA	VC
June 2016	0.15 - 1886.04	0.08 - 462.58	0.18 - 16.18	0.04 - 20.25	0.04 - 6.54	0.03 - 2.19	0.21 (T022)	Non-Detect
Number of 29 Trees w/ Detections	28	28	24	27	16	10	1	0
October 2016	0.37 - 803.23	0.12 - 907.43	0.06 - 47.40	0.15 - 6.28	0.04 - 14.45	0.11 - 1.11	0.17 - 0.52	0.59 (T019)
Number of 29 Trees w/ Detections	29	19	24	19	13	7	3	0
June 2017	0.17 - 1452.41	0.10 - 701.12	0.07 - 20.52	0.10 - 15.06	0.06 - 9.42	0.09 - 1.85	NA	0.43 - 1.47
Number of 29 Trees w/ Detections	27	20	25	22	11	9	NA	2
October 2017	0.09 - 1311.91	0.09 - 1092.60	0.11 - 188.16	0.13 - 16.45	0.11 - 9.28	0.05 - 2.94	0.09 - 0.48	1.09 - 3.78
Number of 29 Trees w/ Detections	29	21	28	18	17	12	3	4

** all results reported in ug compound/kg fresh core weight*
**All ranges include DUP sample data*

Table C.2
Tree Core Sample Results June 2016 - October 2017

Tree ID	TCE				1,1 DCA				cis 1,2 DCE				PCE			
	June 16	Oct 16	June 17	Oct 17	June 16	Oct 16	June 17	Oct 17	June 16	Oct 16	June 17	Oct 17	June 16	Oct 16	June 17	Oct 17
1	17.15	4.38	4.67	4.75	<EQL	<EQL	<EQL	<EQL	0.98	0.47	0.42	0.84	0.60	0.17	0.12	0.13
2	223.41	51.23	58.54	54.31	<EQL	<EQL	<EQL	0.12	1.89	0.71	1.30	1.63	2.99	0.60	1.13	0.77
3	89.56	36.6	21.47	34.90	0.25	0.12	0.10	0.34	4.53	1.61	0.56	3.87	0.64	0.20	0.10	0.20
4	14.19	5.26	2.58	7.48	<EQL	<EQL	<EQL	<EQL	0.91	0.3	<EQL	0.86	0.67	0.24	0.12	0.38
5	114.11	73.76	68.53	123.83	<EQL	0.23	0.11	0.37	3.71	4.15	1.73	5.87	1.30	0.63	0.66	1.13
6	80.20	59.25	20.63	66.37	0.08	0.17	<EQL	0.13	0.62	1.41	0.14	3.42	1.32	0.55	0.20	0.76
7	15.32	1.35	6.48	7.40	<EQL	<EQL	<EQL	<EQL	1.37	0.06	3.08	0.86	0.19	<EQL	<EQL	<EQL
8	8.53	2.77	5.37	3.33	0.17	<EQL	<EQL	<EQL	0.74	0.30	1.14	0.36	0.13	<EQL	<EQL	<EQL
9	0.76	0.37	0.17	0.46	<EQL	<EQL	14.00	<EQL	0.98	0.36	0.77	0.77	<EQL	<EQL	<EQL	<EQL
10	107.57	59.83	36.61	79.80	0.19	0.15	0.13	0.49	1.07	0.67	0.67	1.97	1.84	0.74	0.33	0.81
11	33.87	15.76	22.76	21.65	0.30	0.60	0.63	1.56	0.58	0.49	0.55	1.40	0.44	0.15	<EQL	<EQL
12	5.84	3.65	5.04	24.97	0.16	0.16	0.34	6.22	<EQL	0.15	0.11	1.55	0.15	<EQL	<EQL	0.23
13	73.76	21.00	34.91	18.44	2.96	10.40	3.97	4.33	3.20	4.84	3.60	2.62	0.69	<EQL	0.14	<EQL
14	130.85	22.31	25.92	46.15	3.42	2.69	2.32	6.83	2.97	1.43	0.65	1.76	1.00	<EQL	0.10	0.13
15	253.1	44.59	39.75	54.48	1.92	11.05	13.41	27.58	3.76	8.44	5.49	21.95	2.97	0.54	0.57	1.11
16	76.29	52.88	76.78	291.92	2.39	6.74	11.29	36.82	1.89	1.29	1.97	13.46	4.02	1.69	1.94	4.26
17	91.46	90.00	53.33	88.54	4.60	38.30	14.32	82.72	6.18	11.91	7.17	28.91	4.7	2.29	1.78	4.23
18	512.44	404.85	379.15	473.12	9.94	28.60	13.70	28.55	16.18	47.4	18.30	47.36	15.03	5.98	13.56	16.45
19	1886.04	803.23	363.39	1110.20	5.70	26.61	9.04	64.97	9.38	6.79	3.36	10.69	20.25	6.28	2.69	9.52
20	55.77	25.70	25.94	189.45	<EQL	0.17	0.07	0.31	0.08	0.12	<EQL	1.51	3.17	1.05	0.43	3.45
21	77.91	27.65	11.61	14.79	0.14	0.23	0.07	0.12	0.12	0.13	0.07	0.31	5.20	1.54	0.75	1.20
22	251.74	236.65	122.92	147.51	462.58	907.43	701.12	1696.27	6.6	36.32	18.67	188.16	3.07	2.00	2.31	2.12
23	334.26	94.70	88.03	86.51	2.46	2.18	1.71	6.50	3.84	1.9	2.27	10.90	3.50	1.01	0.70	1.13
24	34.72	8.99	7.14	8.45	0.38	0.58	0.28	1.03	0.18	<EQL	<EQL	0.26	0.79	0.30	0.21	0.29
25	1.95	1.02	0.26	0.46	0.15	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	0.11	0.19	<EQL	<EQL	<EQL
26	20.07	16.97	13.08	11.45	0.43	0.39	0.45	0.58	5.43	2.18	4.78	7.55	2.38	1.48	1.10	1.32
27	<EQL	0.10	<EQL	0.09	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	2.31	<EQL	0.04	<EQL	<EQL	<EQL
28	0.15	0.11	<EQL	0.22	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	0.24	<EQL	<EQL	<EQL	<EQL
29	53.91	23.04	112.72	17.36	5.93	1.54	6.48	20.43	12.34	1.99	8.95	75.95	0.32	0.15	0.42	0.12

** all results reported in ug compound/kg fresh core weight*

Table C.2
Tree Core Sample Results June 2016 - October 2017

Tree ID	1,1 DCE				trans 1,2-DCE				1,2 DCA				VC			
	June 16	Oct 16	June 17	Oct 17	June 16	Oct 16	June 17	Oct 17	June 16	Oct 16	June 17	Oct 17	June 16	Oct 16	June 17	Oct 17
1	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
2	<EQL	0.30	0.14	0.41	0.23	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
3	0.45	172.26	<EQL	0.33	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
4	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
5	0.04	0.19	<EQL	0.40	0.34	0.47	0.49	1.39	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
6	0.07	0.27	<EQL	0.27	0.03	<EQL	<EQL	0.12	<EQL	<EQL	NA	<EQL	<EQL	<EQL	0.43	<EQL
7	0.06	<EQL	<EQL	<EQL	0.11	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
8	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
9	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
10	<EQL	<EQL	<EQL	0.12	0.17	0.14	0.11	0.19	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
11	<EQL	<EQL	<EQL	0.16	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
12	<EQL	<EQL	<EQL	0.11	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
13	1.70	1.07	0.89	0.21	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
14	0.30	<EQL	<EQL	0.25	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
15	0.34	0.90	0.58	1.01	0.28	0.16	0.08	0.24	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
16	0.52	0.17	0.23	1.10	<EQL	<EQL	0.10	0.56	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
17	1.75	1.32	1.31	1.24	<EQL	0.11	<EQL	0.24	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	0.93
18	5.33	3.92	2.99	4.42	0.26	0.35	0.27	0.36	<EQL	0.17	NA	<EQL	<EQL	<EQL	<EQL	<EQL
19	1.06	3.18	2.41	5.71	2.19	1.11	1.02	2.94	<EQL	0.32	NA	0.27	<EQL	0.59	1.47	2.16
20	<EQL	0.04	<EQL	0.26	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
21	0.12	0.20	0.06	0.11	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
22	6.54	14.45	9.42	9.28	<EQL	0.12	0.08	0.72	0.21	0.52	NA	0.48	<EQL	<EQL	<EQL	0.72
23	0.40	<EQL	0.08	0.31	<EQL	<EQL	<EQL	0.05	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
24	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
25	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
26	0.08	<EQL	<EQL	<EQL	0.15	<EQL	0.14	0.13	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
27	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
28	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	NA	<EQL	<EQL	<EQL	<EQL	<EQL
29	0.16	<EQL	0.17	0.38	0.41	<EQL	0.21	1.05	<EQL	<EQL	NA	0.09	<EQL	<EQL	<EQL	0.67

** all results reported in ug compound/kg fresh core weight*

Table C.3
Tree Growth Comparison June 2016 - October 2017

Tree ID	June 2016 Circum.	October 2016 Circum.	June 2017 Circum.	October 2017 Circum.
001	36	38	43	46
002	35	37	45	47
003	38	38	43	47
004	46	48	43	58
005	33	40	44	49
006	55	59	63	64
007	33	35	40	44
008	34	35	39	43
009	34	35	39	43
010	40	42	50	51
011	26	29	34	42
012	25	26	30	40
013	25	23	26	29
014	22	24	27	20
015	43	44	48	55
016	40	42	44	54
017	43	50	52	59
018	70	78	84	92
019	46	52	57	56
020	36	47	39	46
021	43	50	49	55
022	81	88	90	94
023	28	30	33	33
024	48	50	49	56
025	36	35	39	40
026	34	38	42	47
027	51	60	60	70
028	45	53	57	63
029	NM	NM	260	NM

**All results reported in centimeters*
**NM = Not Measured*

Table C.4
October 2017 UWRL Tree Core Sample Laboratory Report
**All results reported in micrograms per kilogram (µg/kg)*

Tree ID	Date Collected	Sample Time	Sample Weight (g)	Sample Height (cm)	Circum (cm)	Sample Wetness	Sample Direction	Latitude	Longitude	Vinyl Chloride	Chloroethane	1,1 DCE	trans 1,2-DCE	1,1 DCA	cis 1,2 DCE	1,2 DCA	111 TCA	TCE	PCE
001	10/20/17	8:36	1.194	42	46	W	W	42.78125784	-88.40257538	<EQL	6.04	<EQL	<EQL	<EQL	0.84	<EQL	<EQL	4.75	0.13
002	10/20/17	8:43	1.217	39	47	W	W	42.78184986	-88.40159990	<EQL	7.23	0.41	<EQL	0.10	1.63	<EQL	<EQL	54.31	0.77
003	10/20/17	8:45	1.806	48	47	W	W	42.78181650	-88.40186854	<EQL	1.18	0.33	<EQL	0.19	3.87	<EQL	<EQL	34.90	0.20
004	10/20/17	8:55	1.259	46	58	W	W	42.78187215	-88.40208706	<EQL	2.40	<EQL	<EQL	<EQL	0.86	<EQL	<EQL	7.48	0.38
005	10/20/17	9:00	1.245	40	49	W	W	42.78200643	-88.40245552	<EQL	2.91	0.40	1.39	0.30	5.87	<EQL	0.75	123.83	1.13
006	10/20/17	9:05	1.498	50	64	W	W	42.78188288	-88.40269910	<EQL	2.24	0.27	0.12	0.09	3.42	<EQL	0.27	66.37	0.76
007	10/20/17	9:11	0.850	45	44	W 1/2	W	42.78166403	-88.40280605	<EQL	3.01	<EQL	<EQL	<EQL	0.86	<EQL	<EQL	7.40	<EQL
008	10/20/17	9:18	1.105	50	43	W	W	42.78155590	-88.40281351	<EQL	<EQL	<EQL	<EQL	<EQL	0.36	<EQL	<EQL	3.33	<EQL
009	10/20/17	9:25	1.108	46	43	W	W	42.78163075	-88.40249483	<EQL	<EQL	<EQL	<EQL	<EQL	0.77	<EQL	<EQL	0.46	<EQL
010	10/20/17	9:30	1.093	51	51	W	W	42.78134124	-88.40281636	<EQL	10.14	0.12	0.19	0.45	1.97	<EQL	0.33	79.80	0.81
011	10/20/17	9:38	1.037	46	42	W	NW	42.78090949	-88.40279692	<EQL	<EQL	0.16	<EQL	1.51	1.40	<EQL	0.52	21.65	<EQL
012	10/20/17	9:44	1.302	50	40	W	W	42.78089046	-88.40267010	<EQL	<EQL	0.11	<EQL	4.78	1.55	<EQL	6.64	24.97	0.23
013	10/20/17	9:50	0.695	26	29	W	W	42.78063230	-88.40312130	<EQL	2.65	0.21	<EQL	6.23	2.62	<EQL	7.52	18.44	<EQL
014	10/20/17	9:55	0.973	37	20	W	E	42.78055234	-88.40325457	<EQL	5.05	0.25	<EQL	7.02	1.76	<EQL	8.20	46.15	0.13
015	10/20/17	10:00	1.374	53	55	W	W	42.78077002	-88.40341852	<EQL	3.88	1.01	0.24	20.07	21.95	<EQL	168.84	54.48	1.11
016	10/20/17	10:05	1.179	36	54	W	W	42.78067857	-88.40361390	<EQL	4.10	1.10	0.56	31.23	13.46	<EQL	254.43	291.92	4.26
017	10/20/17	10:14	1.404	52	59	W	W	42.78098694	-88.40320897	0.93	6.83	1.24	0.24	58.93	28.91	<EQL	160.53	88.54	4.23
018	10/20/17	10:19	1.153	51	92	W	W	42.78088460	-88.40352941	<EQL	12.81	4.42	0.36	24.76	47.36	<EQL	926.30	473.12	16.45
018 DUP	10/20/17	12:20	1.214	60	94	W	W	42.78088460	-88.40352941	<EQL	4.00	5.50	0.43	44.76	55.98	0.15	982.16	466.23	11.19
018 HEIGHT	10/20/17	12:23	1.444	120	74	W	W	42.78088460	-88.40352941	<EQL	2.42	5.56	0.43	40.75	52.78	0.11	982.09	467.91	13.64

Table C.4
October 2017 UWRL Tree Core Sample Laboratory Report
**All results reported in micrograms per kilogram (µg/kg)*

Tree ID	Date Collected	Sample Time	Sample Weight (g)	Sample Height (cm)	Circum (cm)	Sample Wetness	Sample Direction	Latitude	Longitude	Vinyl Chloride	Chloroethane	1,1 DCE	trans 1,2-DCE	1,1 DCA	cis 1,2 DCE	1,2 DCA	111 TCA	TCE	PCE
019	10/20/17	10:28	1.753	63	56	W	W	42.78080623	-88.40390048	2.16	1.16	5.71	2.94	37.06	10.69	0.27	23.30	1110.20	9.52
019 DUP	10/20/17	12:09	1.477	53	59	-	-	42.78080623	-88.40390048	1.98	1.72	5.62	2.92	42.43	10.57	0.29	19.67	1085.37	9.97
019 HEIGHT	10/20/17	12:15	1.329	122	53	W	W	42.78080623	-88.40390048	1.47	2.67	4.00	2.87	27.69	11.40	0.21	83.31	1311.91	14.10
019 FIELD BLANK	10/20/17	12:12	-0.005	-	-	-	-	42.78080623	-88.40390048	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL
020	10/20/17	10:34	0.927	57	46	W	W	42.78091896	-88.40443499	<EQL	5.19	0.26	<EQL	0.33	1.51	<EQL	1.11	189.45	3.45
021	10/20/17	10:41	1.188	53	55	W	W	42.78117897	-88.40395211	<EQL	5.54	0.11	<EQL	0.10	0.31	<EQL	0.81	14.79	1.20
022	10/20/17	10:48	1.553	61	94	W	W	42.78120252	-88.40361072	0.72	9.00	9.28	0.72	1092.60	188.16	0.48	1300.48	147.51	2.12
023	10/20/17	10:55	1.058	43	33	W	W	42.78134418	-88.40360770	<EQL	2.67	0.31	0.05	6.14	10.90	<EQL	15.53	86.51	1.13
024	10/20/17	11:00	1.114	63	56	W	W	42.78126614	-88.40402260	<EQL	16.13	<EQL	<EQL	0.92	0.26	<EQL	0.92	8.45	0.29
025	10/20/17	11:07	1.211	59	40	W	W	42.78159295	-88.40352187	<EQL	1.83	<EQL	<EQL	<EQL	0.11	<EQL	<EQL	0.46	<EQL
026	10/20/17	11:12	0.949	53	47	W	W	42.78173972	-88.40381431	<EQL	3.63	<EQL	0.13	0.61	7.55	<EQL	0.24	11.45	1.32
027	10/20/17	11:30	1.625	63	70	W	NE	42.78213057	-88.40070689	<EQL	1.34	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	0.09	<EQL
028	10/20/17	11:53	1.272	53	63	W	NE	42.78192253	-88.40080840	<EQL	<EQL	<EQL	<EQL	<EQL	0.24	<EQL	<EQL	0.22	<EQL
029	10/20/17	12:03	1.609	126	-	W	NE	42.78040155	-88.40336965	0.67	14.37	0.38	1.05	12.70	75.95	0.09	22.47	17.36	0.12
Trip Blank 1	-	-	0.001	-	-	-	-	-	-	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL
Trip Blank 2	-	-	0.000	-	-	-	-	-	-	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL
Extra Vial 1	-	-	0.002	-	-	-	-	-	-	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL	<EQL
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