

February 1, 2019

Shelly Billingsley, MBA, PE
Director of Public Works
City of Kenosha
625 52nd Street, Room 305
Kenosha, WI 53140

**Subject: November 2018 Groundwater Sampling Summary
Former Mankowski Property, 2600 50th Street, Kenosha, Wisconsin
BRRS # 02-30-554934**

Dear Ms. Billingsley,

AECOM conducted the first of four groundwater sampling events on November 7 and 8, 2018, as part of the semi-annual groundwater monitoring plan for 2018 and 2019 at the former Mankowski property (Property). The sampling was conducted as described in Task Order 125-051418 for the City of Kenosha (May 14, 2018). The purpose of this letter is to transmit the results of the November 2018 sampling event.

Site History

The Property (parcel number 09-222-36-134-003) is approximately 4 acres located north of 50th Street and west of 26th Avenue. The property was formerly part of a larger parcel previously owned by the Chrysler Corporation. The property is bounded to the north by an elementary school and residential properties to the east, south and west. The site location is depicted in Figure 1.

The Property was subject to a number of investigations and several focused remedial actions. After confirmatory soil borings with groundwater sampling indicated that contamination remained despite the remedial action, the WDNR conducted further investigation which identified several areas of chlorinated volatile organic compound impacts in the vadose zone for remediation. Soil treatment and removal in these areas was conducted in 2017. Groundwater monitoring is being conducted to evaluate if the groundwater contamination continues to be stable or are reducing as a result of the soil remediation.

Groundwater Sampling

During the November 2018 sampling event, 21 of the 23 planned groundwater monitoring wells/piezometers were sampled. Monitoring wells MW-16 and MW-18 were not located at this time and were not sampled. Figure 2 depicts the site layout and monitoring well/piezometer locations.

Prior to sample collection, groundwater elevation measurements were collected from the monitoring wells and piezometers for the evaluation of groundwater flow at the Property. Depth to groundwater measurements and calculated elevations are provided in Table 1.

Groundwater samples were collected from the monitoring wells and piezometers using low-flow sampling techniques with a peristaltic pump and new tubing for each well. Field parameters, including pH, conductivity, oxygen reducing potential, dissolved oxygen, and temperature, were measured during well purging and recorded following stabilization of each parameter. The field parameter measurements are included in Table 2.

Groundwater samples from the 21 wells were submitted to Pace Analytical Services, Inc. (Pace), in Green Bay, Wisconsin, and analyzed for volatile organic compounds (VOCs - SW846 Method 8260B).

Groundwater Results

Contoured groundwater elevations in the fill material from the November 2018 measurements depict groundwater flow to the east-northeast (Figure 3). The observed flow direction differs slightly from earlier groundwater contour maps from 2011 and 2012; but remains consistent with the flow direction determined by AECOM in 2016 and the May 2018 sampling event.

The groundwater analytical results were compared to Wisconsin Administrative Code Ch. NR 140.10, Table 1, Public Health Groundwater Quality Standards, and are summarized in Table 3 and depicted on Figure 4. Laboratory analytical reports are also attached. The lab data were validated for compliance with holding times and other quality control parameters. The duplicates were evaluated for precision and the sample results were with the acceptance criteria. A copy of the memo is attached.

Five chlorinated VOCs were detected above the PAL or ES; 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), trichloroethene (TCE) and vinyl chloride (VC). The wells with exceedances were:

<u>VOC</u>	<u>Wells Exceeding the ES</u>	<u>Wells Exceeding the PAL</u>
1,1-Dichloroethene	PZ-9	MW-19, MW-20, and MW-21
Cis-1,2-Dichloroethene	MW-9R, PZ-9, MW-19, MW-20, MW-21, MW-22, MW-23, and MW-27	PZ-9B, MW-25, MW-26, and SMW-2
Trichloroethene	MW-9R, PZ-9, PZ-9B, MW-19, MW-21, MW-23, MW-24, MW-25, MW-27, and SMW-2	MW-26, SMW-3 and TW-2
Vinyl chloride	MW-9R, PZ-9, MW-19, MW-20, MW-21, MW-22, MW-23, MW-25, MW-26, and MW-27	No exceedances

Groundwater analytical data from the November 2018 sampling event is similar to previous groundwater sampling events completed at the Property. Enforcement Standard (ES) exceedances for VOCs were detected in 12 of the 21 wells, near the center of the Property. Preventive Action Limit (PAL) exceedances for VOCs were detected in seven of the same locations as the ES exceedances and at two additional locations (SMW-3 and TW-2). The extent of VOC groundwater plume is similar to what was identified previously. TCE was detected below standards and at an estimated value between the reporting limit and method detection limit, in downgradient monitoring well MW-15. VOCs were not detected in downgradient monitoring well MW-14R.

The overall relationship between TCE concentrations and groundwater elevations was assessed at three monitoring wells (MW-9R, MW-19 and MW-21) and one piezometer (PZ-9). Figures 5 through 8 depict TCE concentrations and groundwater elevations over time. A linear trend line has been added to each TCE concentration graph. TCE appears to be stable or decreasing at the monitoring well locations and increasing at the piezometer location. Soil remediation was completed in 2017 to remove the source of contamination, and TCE concentrations will be monitored during future sampling events.

Conclusions

The overall groundwater plume appears to be stable although TCE was detected below the PAL in MW-15 (downgradient to the northeast and previously not detected) and in TW-2 above the PAL (downgradient and to the southeast). Further evaluation will be conducted with the future groundwater sampling events.

Please contact us if you have questions about this letter.

Yours sincerely,

AECOM Technical Services, Inc.



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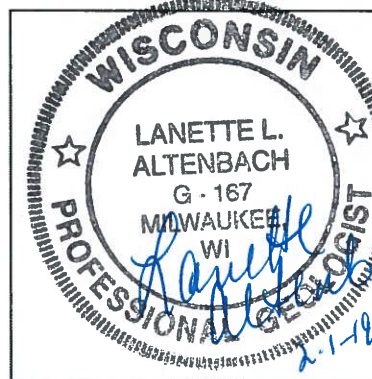
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In conformance with NR 712.09 submittal certification requirements:

"I, Lanette Altenbach, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



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Attachments

Tables

- Table 1 – Groundwater Measurements and Elevations
- Table 2 – Groundwater – Measured Field Parameters
- Table 3 – Detected VOCs in Groundwater

Figures

- Figure 1 – Site Location
- Figure 2 – Site Layout
- Figure 3 – Water Table Contour Map – November 2018
- Figure 4 – Groundwater Analytical Summary ES Exceedances – November 2018
- Figure 5 – MW-9R - TCE Concentrations and Groundwater Elevations over Time
- Figure 6 – PZ-9 - TCE Concentrations and Groundwater Elevations over Time
- Figure 7 – MW-19 - TCE Concentrations and Groundwater Elevations over Time
- Figure 8 – MW-21 - Analyte Concentrations and Groundwater Elevations over Time

Laboratory Analytical Report

Cc: Mark Drews, WDNR Project Manager
Christine Haag, WDNR (by email)

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-8		MW-9R		PZ-9		PZ-9B		MW-12	
Date Installed	~ 2001		unknown		~ 2001		March 2002		~ 2001	
Ground Elevation (ft)	620.63		621.53		621.04		621.25		618.97	
Top of PVC Casing Elevation (ft MSL)	620.40		621.31		621.04		621.26		618.53	
Screen Length (ft)	10		10		10		5		10	
TOC to Bottom of Well (ft) ^A	19.24		12.55		19.43		35.38		16.86	
Top of Screen (ft-MSL)							590.76		611.53	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	8.36	612.04	6.92	614.39	6.69	614.35	NI	--	8.81	609.72
3/2/2002	9.19	611.21	8.68	612.63	8.51	612.53	7.52	613.74	8.86	609.67
4/15/2002	7.34	613.06	7.79	613.52	7.62	613.42	11.79	609.47	8.04	610.49
4/22/2002	7.49	612.91	7.58	613.73	7.43	613.61	10.02	611.24	7.31	611.22
7/19/2002	8.56	611.84	8.35	612.96	7.30	613.74	7.39	613.87	8.88	609.65
10/24/2002	11.18	609.22	10.98	610.33	9.91	611.13	8.35	612.91	10.15	608.38
1/7/2003	9.66	610.74	11.59	609.72	10.83	610.21	9.29	611.97	9.20	609.33
8/30/2004	10.10	610.30	9.35	611.96	9.15	611.89	8.46	612.80	7.82	610.71
10/11/2004	10.94	609.46	9.57	611.74	9.39	611.65	9.40	611.86	8.46	610.07
10/14/2004	10.90	609.50	9.65	611.66	9.41	611.63	9.39	611.87	8.72	609.81
11/2/2005	10.95	609.45	10.08	611.23	9.52	611.52	11.15	610.11	7.78	610.75
2/22/2006	--	--	8.09	613.22	7.89	613.15	9.30	611.96	8.60	609.93
11/1/2007	9.30	611.10	7.64	613.67	7.69	613.35	7.42	613.84	8.85	609.68
11/5/2008	8.67	611.73	7.70	613.61	7.51	613.53	7.70	613.56	8.72	609.81
7/21/2011	9.62	610.78	6.71	614.60	6.43	614.61	7.90	613.36	9.14	609.39
4/11/2012	8.81	611.59	7.20	614.11	--	--	--	--	8.91	609.62
4/18/2012	8.05	612.35	8.43	612.88	--	--	--	--	7.47	611.06
7/12/2012	--	--	--	--	8.16	612.88	9.00	612.26	--	--
7/5/2016	8.89	611.51	7.20	614.11	6.96	614.08	8.11	613.15	8.73	609.80
5/23/2018	--	--	5.85	615.46	5.60	615.44	8.27	612.99	6.60	611.93
11/7/2018	7.83	612.57	6.38	614.93	6.16	614.88	6.57	614.69	7.26	611.27

ft MSL= feet mean sea level
ft = feet NI = Not Installed
^A = as measured inside well
-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-13		MW-14/MW-14R		PZ-14		MW-15		MW-16	
Date Installed	~ 2001		~2001/April 2012		~2001		March 2002		March 2002	
Ground Elevation (ft)	620.32		617.48		617.58		619.95		622.44	
Top of PVC Casing Elevation (ft MSL)	620.03		617.48		617.34		619.49		622.04	
Screen Length (ft)	10		10		5		10		10	
TOC to Bottom of Well (ft) ^A	19.75		15.29		19.86		15.26		15.28	
Top of Screen (ft-MSL)	610.13		614.48		602.34		613.49		616.04	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	9.39	610.64	8.06	609.42	15.24	602.10	NI	--	NI	--
3/2/2002	8.60	611.43	7.45	610.03	8.48	608.86	11.84	607.65	8.39	613.65
4/15/2002	7.76	612.27	4.03	613.45	5.13	612.21	11.36	608.13	7.24	614.80
4/22/2002	7.67	612.36	3.94	613.54	5.12	612.22	11.75	607.74	7.17	614.87
7/19/2002	9.96	610.07	8.02	609.46	8.32	609.02	11.75	607.74	7.31	614.73
10/24/2002	11.64	608.39	8.96	608.52	11.03	606.31	12.28	607.21	8.06	613.98
1/7/2003	10.12	609.91	9.09	608.39	11.16	606.18	12.51	606.98	9.14	612.90
8/30/2004	9.25	610.78	--	--	--	--	12.44	607.05	--	--
10/11/2004	10.84	609.19	7.47	610.01	8.04	609.30	12.76	606.73	9.94	612.10
10/14/2004	10.82	609.21	7.80	609.68	8.26	609.08	12.71	606.78	9.94	612.10
11/2/2005	10.98	609.05	5.98	611.50	6.99	610.35	12.54	606.95	9.06	612.98
2/22/2006	9.17	610.86	7.15	610.33	7.41	609.93	12.20	607.29	8.29	613.75
11/1/2007	9.91	610.12	5.70	611.78	6.64	610.70	11.80	607.69	8.43	613.61
11/5/2008	9.02	611.01	7.82	609.66	8.18	609.16	11.63	607.86	8.46	613.58
7/21/2011	10.86	609.17	--	--	8.82	608.52	12.30	607.19	7.56	614.48
4/11/2012	9.22	610.81	--	--	8.28	609.06	12.22	607.27	9.14	612.90
4/18/2012	9.43	610.60	--	--	--	--	12.09	607.40	--	--
7/12/2012	11.48	608.55	9.03	608.45	9.35	607.99	--	--	--	--
7/5/2016	11.02	609.01	7.62	609.86	8.33	609.01	12.02	607.47	8.08	613.96
5/23/2018	3.40	616.63	3.75	613.73	5.07	612.27	11.45	608.04	--	--
11/7/2018	4.67	615.36	4.75	612.73	6.02	611.32	11.37	608.12	--	--

ft MSL= feet mean sea level
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-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-18		MW-19		MW-20		MW-21		MW-22	
Date Installed	October 2004		October 2004		October 2004		October 2004		October 2004	
Ground Elevation (ft)	622.16		621.82		621.25		621.60		620.66	
Top of PVC Casing Elevation (ft MSL)	621.59		621.50		620.79		621.00		620.06	
Screen Length (ft)	10		10		10		10		10	
TOC to Bottom of Well (ft) ^A	17.28		17.28		17.33		17.45		17.05	
Top of Screen (ft-MSL)	613.59		613.50		612.79		613.00		612.06	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--	NI	--
10/11/2004	9.77	611.73	9.83	611.67	9.76	611.03	9.27	611.73	9.05	611.01
10/14/2004	9.82	611.68	9.85	611.65	9.79	611.00	9.28	611.72	9.07	610.99
11/2/2005	10.21	611.29	10.26	611.24	10.38	610.41	9.70	611.30	10.27	609.79
2/22/2006	8.41	613.09	8.31	613.19	8.23	612.56	7.77	613.23	7.58	612.48
11/1/2007	7.94	613.56	7.78	613.72	7.78	613.01	7.33	613.67	7.30	612.76
11/5/2008	8.05	613.45	7.88	613.62	7.11	613.68	10.38	610.62	7.38	612.68
7/21/2011	7.05	614.45	7.02	614.48	6.71	614.08	6.42	614.58	6.40	613.66
4/11/2012	--	--	7.37	614.13	--	--	--	--	--	--
4/18/2012	--	--	--	--	--	--	--	--	--	--
7/12/2012	8.75	612.75	8.73	612.77	8.43	612.36	8.10	612.90	7.95	612.11
7/5/2016	7.50	614.00	7.47	614.03	7.31	613.48	6.87	614.13	6.73	613.33
5/23/2018	--	--	6.30	615.20	6.44	614.35	5.54	615.46	5.39	614.67
11/7/2018	--	--	6.82	614.68	6.81	613.98	6.13	614.87	6.15	613.91

ft MSL= feet mean sea level
ft = feet NI = Not Installed
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-- not measured; no elevation

Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	MW-23		MW-24		MW-25		MW-26		MW-27	
Date Installed	October 2004		October 2004		September 2005		September 2005		September 2005	
Ground Elevation (ft)	620.66		620.08		623.38		621.40		620.16	
Top of PVC Casing Elevation (ft MSL)	619.92		619.95		622.91		621.01		619.86	
Screen Length (ft)	10		10		10		10		10	
TOC to Bottom of Well (ft) ^A	18.4		17.44		16.32		16.36		16.29	
Top of Screen (ft-MSL)	610.92				615.91		614.01		612.86	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--	NI	--
10/11/2004	10.22	609.70	11.46	608.49	NI	--	NI	--	NI	--
10/14/2004	10.22	609.70	11.46	608.49	NI	--	NI	--	NI	--
11/2/2005	10.65	609.27	10.75	609.20	11.11	611.80	10.74	610.27	11.94	607.92
2/22/2006	8.76	611.16	10.63	609.32	8.32	614.59	8.71	612.30	10.85	609.01
11/1/2007	7.52	612.40	9.78	610.17	8.74	614.17	7.92	613.09	9.31	610.55
11/5/2008	7.78	612.14	9.80	610.15	8.51	614.40	8.12	612.89	9.71	610.15
7/21/2011	7.01	612.91	10.03	609.92	8.15	614.76	7.13	613.88	9.20	610.66
4/11/2012	--	--	--	--	7.68	615.23	7.59	613.42	--	--
4/18/2012	--	--	--	--	--	--	--	--	--	--
7/12/2012	8.45	611.47	10.30	609.65	9.71	613.20	8.85	612.16	10.40	609.46
7/5/2016	7.44	612.48	10.40	609.55	8.34	614.57	7.53	613.48	10.80	609.06
5/23/2018	6.73	613.19	10.30	609.65	4.75	618.16	6.47	614.54	9.11	610.75
11/7/2018	7.20	612.72	10.43	609.52	6.09	616.82	6.32	614.69	9.90	609.96

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Table 1
Depth to Groundwater Measurements and Calculated Groundwater Elevations
Mankowski Property, 50th Street and 26th Avenue
Kenosha, Wisconsin

Well Number	SMW-2		SMW-3		TW-1		TW-2	
Date Installed	July 2011		July 2012					
Ground Elevation (ft)	622.78		623.19		622.27		621.69	
Top of PVC Casing Elevation (ft MSL)	622.46		622.96		623.49		623.85	
Screen Length (ft)	10		10		10		10	
TOC to Bottom of Well (ft) ^A	15.65		16.21		8		17.57	
Top of Screen (ft-MSL)	616.61		616.71		616.14		613.85	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
7/2/2001	NI	--	NI	--	NI	--	NI	--
3/2/2002	NI	--	NI	--	NI	--	NI	--
4/15/2002	NI	--	NI	--	NI	--	NI	--
4/22/2002	NI	--	NI	--	NI	--	NI	--
7/19/2002	NI	--	NI	--	NI	--	NI	--
10/24/2002	NI	--	NI	--	NI	--	NI	--
1/7/2003	NI	--	NI	--	NI	--	NI	--
8/30/2004	NI	--	NI	--	NI	--	NI	--
10/11/2004	NI	--	NI	--	NI	--	NI	--
10/14/2004	NI	--	NI	--	NI	--	NI	--
11/2/2005	NI	--	NI	--	NI	--	NI	--
2/22/2006	NI	--	NI	--	NI	--	NI	--
11/1/2007	NI	--	NI	--	NI	--	NI	--
11/5/2008	NI	--	NI	--	NI	--	NI	--
7/21/2011	8.00	614.46	NI	--	8.15	615.34	16.10	607.75
4/11/2012	7.73	614.73	NI	--	8.06	615.43	15.95	607.90
4/18/2012	--	--	NI	--	--	--	--	--
7/12/2012	9.54	612.92	9.46	613.50	DRY	--	13.92	609.93
7/5/2016	8.21	614.25	8.18	614.78	6.96	616.53	13.60	610.25
5/23/2018	6.01	616.45	4.77	618.19	2.60	620.89	12.11	611.74
11/7/2018	7.08	615.38	6.04	616.92	4.96	618.53	12.33	611.52

ft MSL= feet mean sea level

ft = feet NI = Not Installed

^A = as measured inside well

-- not measured; no elevation

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
MW-8	7/21/2011	7.50	0.73	36	NM	13.2
	4/11/2012	7.00	1.00	44	NM	10.4
MW-9R	7/21/2011	7.00	0.5	15	NM	15.5
	7/12/2012	7.00	1	-93	NM	14.8
	7/6/2016	6.80	0.48	7.3	907	15.4
	5/24/2018	6.63	1.15	71.3	772	12.7
	11/8/2018	6.66	0.09	16.5	1104	14.0
MW-12	7/21/2011	7.20	0.1	-89	NM	12.9
	4/11/2012	7.80	1	60	NM	11.0
	5/23/2018	6.43	0.91	120.9	536	13.4
	11/7/2018	6.66	0.12	47.4	849	15.2
MW-13	7/21/2011	7.30	0.1	-86	NM	10.9
	4/11/2012	7.70	3.2	70	NM	10.3
	5/23/2018	6.63	2.54	121.3	459	12.8
	11/7/2018	6.56	2.38	17.9	730	13.1
MW-14R	4/13/2012	7.20	2.6	-65	NM	10.1
	7/6/2016	7.00	0.91	-116.8	784	17.1
	5/23/2018	6.63	0.37	82.2	478	14.0
	11/7/2018	6.69	0.17	-42.6	640	13.7
MW-15	7/21/2011	7.60	0.43	-38	NM	13.7
	4/11/2012	7.40	1.8	40	NM	9.8
	5/23/2018	6.84	2.5	128.5	557	14.3
	11/7/2018	7.02	6.3	27.3	580	12.1
MW-16	7/21/2011	7.20	0.2	-109	NM	13.1
	4/12/2012	7.30	1.7	21	NM	10.8
MW-17	7/21/2011	7.30	0.2	-141	NM	12.4
	4/12/2012	7.40	1.2	-85	NM	11.0
	7/5/2016	6.97	1.39	-26.9	1701	16.1
MW-18	7/21/2011	7.00	0.2	-72	NM	14.3
	4/12/2012	7.40	6	50	NM	11.1
	7/5/2016	6.99	0.69	-101.2	1114	17.9

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (μS/cm)	Temperature (° Celcius)
MW-19	7/21/2011	7.30	0.03	-82	NM	12.6
	4/11/2012	7.80	1	-40	NM	10.9
	7/6/2016	7.04	0.42	-46.6	1293	17.0
	5/24/2018	6.91	0.21	11	1044	15.4
	11/8/2018	6.88	0.14	-38.1	1217	13.5
MW-20	7/21/2011	7.20	0.02	-108	NM	12.7
	4/12/2012	7.00	2	-104	NM	10.7
	7/6/2016	6.73	0.64	-70.7	981	18.2
	5/23/2018	6.95	0.32	-22.6	967	16.0
	11/7/2018	6.32	2.62	-6.7	934	14.4
MW-21	7/21/2011	7.00	0.3	-106	NM	14.4
	4/12/2012	7.00	2	-100	NM	10.9
	7/6/2016	6.80	1.52	-90.5	1021	16.6
	5/24/2018	6.59	0.38	-17	866	13.4
	11/8/2018	6.50	0.16	-53.6	1201	14.0
MW-22	7/21/2011	7.10	0.1	-124	NM	13.0
	4/12/2012	7.60	1.20	-180	NM	11.0
	7/6/2016	6.88	1.05	-125	1292	16.0
	5/24/2018	6.77	0.24	-95.7	972	14.2
	11/8/2018	6.65	0.13	-89.5	1307	14.8
MW-23	7/21/2011	7.40	0.11	-85	NM	12.2
	4/12/2012	7.10	1	-96	NM	10.7
	7/6/2016	6.81	0.94	-94.1	1071	16.2
	5/23/2018	6.68	0.44	-50.8	925	13.1
	11/7/2018	6.45	0.08	-61.6	1300	14.8
MW-24	7/21/2011	7.40	0.06	-64	NM	12.6
	4/12/2012	7.20	0.8	83	NM	10.3
	7/12/2012	7.10	1.7	180	NM	14.2
	5/24/2018	6.77	0.82	104.6	977	16.5
	11/8/2018	6.58	0.15	39.7	1408	14.2
MW-25	7/21/2011	7.10	0.3	-126	NM	12.0
	4/11/2012	7.40	2	-40	NM	10.0
	5/23/2018	6.50	0.38	-14.9	1164	13.6
	11/8/2018	6.25	NM	-24.9	1412	12.6

Table 2
Groundwater Field Parameters
Mankowski Property, 2600 50th Street
Kenosha, Wisconsin

	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Specific Conductivity (µS/cm)	Temperature (° Celcius)
MW-26	7/21/2011	7.30	0.02	-137	NM	12.6
	4/11/2012	7.20	0.6	-1	NM	10.6
	7/6/2016	6.56	1.02	-2.3	499	17.0
	5/24/2018	6.28	0.45	77.3	360	13.4
	11/8/2018	6.29	NM	36.2	487	13.7
MW-27	7/21/2011	7.40	0.21	-78	NM	13.6
	4/12/2012	7.10	0.5	-92	NM	9.8
	7/6/2016	6.81	1.43	-84.1	1134	16.4
	5/24/2018	6.69	0.38	-49.8	872	14.1
	11/8/2018	6.60	0.12	-65.2	1018	15.3
PZ-9	7/21/2011	6.90	0.5	22	NM	12.6
	4/12/2012	7.20	0.7	-11	NM	10.9
	7/6/2016	6.81	0.45	-64.4	1348	15.1
	5/24/2018	6.50	0.32	1.6	870	12.6
	11/8/2018	6.42	0.13	-52.5	1355	12.7
PZ-9B	7/21/2011	7.70	0.1	-143	NM	11.9
	4/13/2012	7.80	1.4	-28	NM	12.4
	7/6/2016	7.42	0.46	-87.5	438	15.2
	5/24/2018	6.80	0.81	73.4	339	15.1
	11/8/2018	6.99	1.19	-35.9	474	13.2
PZ-14	7/21/2011	7.40	0.6	-65	NM	11.6
	4/11/2012	7.50	2	92	NM	11.0
	5/23/2018	6.98	0.65	120.7	741	14.4
	11/7/2018	6.99	2.67	61.3	1004	13.8
SMW-2	7/21/2011	7.70	0.25	-70	NM	12.2
	4/13/2012	7.30	1.40	-30	NM	10.3
	7/5/2016	7.01	0.89	-102.8	1349	16.0
	5/24/2018	6.92	0.33	42.9	1024	14.9
	11/8/2018	6.95	NM	-34.7	1163	12.9
SMW-3	7/6/2016	6.89	1.52	-139.1	1589	14.9
	5/23/2018	6.95	4.11	100.5	497	14.7
	11/7/2018	6.69	0.17	-13.0	1699	11.3
TW-1	7/21/2011	7.30	0.44	-74	NM	12.4
	4/11/2012	7.00	--	--	NM	--
	5/23/2018	6.09	4.69	197	666	16.0
	11/7/2018	6.66	1.1	-16.5	990	13.2
TW-2	7/21/2011	7.20	0.5	-12	NM	12.6
	4/11/2012	7.00	--	13	NM	10.5
	5/23/2018	6.53	5.19	161	556	13.6
	11/7/2018	6.97	6.81	39.2	458	14.6

Notes: mg/l = milligrams per liter. msl = mean sea level
ft = feet NM = Not Measured

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylene Chloride µg/L	Tetrachloro- ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-8	5/19/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	< 0.5
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	0.09 ^{JB}	< 0.5	< 0.5
	7/23/2002	0.03	NPD	< 0.5	< 0.5	0.3	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.1 ^{JB}	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.19 ^{JB}	< 0.5	< 0.5	NPD	0.26 ^{JB}	< 0.5	< 0.5
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.56
	2/7/2011	< 0.2	NPD	< 0.25	0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 1.2
	6/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 0.3
7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.742	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9	
MW-9R	3/19/2002	<u>2</u>	NPD	< 0.5	450	56,000	520	<u>310</u>	0	<u>3</u>	13	< 0.5	NPD	28,000	8,300	17
	4/22/2002	< 1300	NPD	< 1300	360	51,000	400	<u>250</u>	440	250^{JB}	150	< 1300	NPD	31,000	6,200	< 1300
	7/23/2002	< 630	NPD	< 630	200	31,000	280	<u>210</u>	230^{JB}	< 630	90 ^{JB}	< 630	NPD	22,000	< 630	< 630
	10/14/2004	<u>1</u>	NPD	< 0.5	210	570,000	200	<u>230^E</u>	< 0.5	<u>1.8</u>	14	< 0.5	NPD	16,000	5,100	21
	2/23/2006	< 2500	NPD	< 2500	< 2500	58,000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	NPD	4,400	4,100	< 2500
	12/20/2006	< 50	NPD	< 100	170	63,000	260	88	< 200	< 80	< 70	< 80	NPD	2,000	3,700	NA
	2/1/2007	<u>1</u>	NPD	NA	182	27,600	274	<u>260</u>	< 0.53	<u>3.9</u>	11	NA	NPD	21,000	3,770	22
	12/12/2007	< 500	NPD	< 980	< 600	50,000	< 790	< 780	< 1100	NA	< 530	< 850	NPD	590^J	4,900	< 1900
	3/5/2011	<u>1</u>	NPD	< 0.5	< 1300	440,000	< 1300	< 1300	< 0.5	<u>0.9</u>	10	< 0.5	NPD	9,700	4,200	11
	5/7/2011	< 100	NPD	< 130	< 120	34,000	< 100	< 100	1930	< 130	< 140	< 150	NPD	2,710	2,710	< 280
	5/8/2011	< 200	NPD	< 120	< 270	44,100	< 230	< 220	< 500	< 110	< 180	< 170	NPD	1,440	3,870	< 580
	7/22/2011	< 50	NPD	< 98	< 60	28,000	< 78	< 110	< 110	< 44	< 53	< 85	NPD	1,290	2,010	< 190
	7/6/2016	< 125	< 125	< 60.4	< 103	24,800	<u>91.4</u>	< 125	< 58.1	< 125	< 125	< 125	< 49.3	373	2,590	< 375
5/24/2018	< 125	< 125	< 60.4	< 103	26,300	120^J	< 125	< 58.1	< 125	< 125	< 125	< 49.3	1,210	1,390	< 375	
11/8/2018	< 61.6	< 547	< 68.1	< 61.2	19,100	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	490	1,230	< 375	
MW-9R DUP	3/19/2002	< 1300	NPD	< 1300	300	56,000	450	<u>270</u>	250^{JB}	< 1300	<u>280^{JB}</u>	< 1300	NPD	26,000	6,100	< 1300
	2/23/2006	< 250	NPD	< 250	170	51000^D	340	120	< 250	< 250	< 250	< 250	NPD	5,900	8,400	< 250
PZ-9	7/1/2001	<u>2</u>	NPD	NA	138	21,400	272	<u>180</u>	< 0.53	25	21	NA	NPD	21,000	3,770	18
	3/19/2002	<u>2</u>	NPD	< 0.5	490	62,000	670	<u>360</u>	0	19	14	< 0.5	NPD	82,000	4,300	10
	4/22/2002	77	NPD	< 1800	360	50,000	520	<u>230</u>	730	170	<u>200^{JB}</u>	< 1800	NPD	71,000	3,400	< 1800
	7/23/2002	< 6300	NPD	< 6300	< 6300	65,000	< 6300	< 6300	3100	< 6300	< 6300	< 6300	NPD	230,000	3,900	< 6300
	10/14/2004	<u>1</u>	NPD	< 0.5	150	42,000	180	130 ^E	< 0.5	19	18	< 0.5	NPD	62,000	2,900	9
	2/23/2006	< 2500	NPD	< 2500	< 2500	37,000	< 2500	< 2500	< 2500	< 2500	< 2500	< 2500	NPD	71,000	1,900	< 2500
	12/21/2006	< 50	NPD	< 100	260	69,000	480	<u>160</u>	< 200	< 80	< 70	< 80	NPD	130,000	2,500	NA
	3/5/2011	< 6300	NPD	< 6300	< 6300	65,000	< 6300	< 6300	< 6300	< 6300	< 6300	< 6300	NPD	140,000	< 6300	< 6300
	5/7/2011	< 200	NPD	< 250	< 230	24,700	< 200	< 200	< 1000	< 250	< 270	< 290	NPD	49,700	< 340	< 560
	5/8/2011	< 400	NPD	< 240	< 540	60,000	< 450	< 430	< 1000	< 220	< 350	< 330	NPD	95,800	2,240	< 1200
	7/21/2011	< 1480	NPD	< 1960	< 1200	88,000	< 1580	< 1560	< 2200	< 880	< 1060	< 1700	NPD	114,000	3,800	< 3800
	4/12/2012	< 500	NPD	< 980	< 600	97,000	< 790	< 780	< 1100	< 440	< 530	< 850	NPD	103,000	3,160	< 1900
	7/6/2016	< 500	< 500	< 242	< 410	97,700	536	< 500	< 233	< 500	< 500	< 500	< 197	79,200	5,030	< 1500
5/24/2018	< 500	< 500	< 242	569^J	107,000	739^J	< 500	< 233	< 500	< 500	< 500	< 197	97,700	5,080	< 1500	
11/8/2018	< 246	< 2190	< 273	247^J	89,100	< 1090	< 218	< 581	< 326	< 172	< 245	< 552	93,600	4,390	< 1500	
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylene Chloride µg/L	Tetrachloro ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L	
PZ-9B	3/18/2002	0	NPD	< 0.5	< 0.5	1	0	0	0.2 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	<u>4</u>	< 0.5	0	
	4/4/2002	< 0.5	NPD	< 0.5	< 0.5	1	0	< 0.5	0.2 ^{JB}	< 0.5	0.06 ^{JB}	< 0.5	NPD	<u>2</u>	0	< 0.5	
	7/23/2002	0	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.06 ^{JB}	< 0.5	NPD	<u>3</u>	< 0.5	< 0.5	
	10/14/2004	< 0.5	NPD	< 0.5	0	1.3 ^D	1	0	< 0.5	< 0.5	0	< 0.5	NPD	37	3	< 0.5	
	2/23/2006	< 0.5	NPD	< 0.5	< 0.5	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	<u>1</u>	< 0.5	< 0.5	
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	<u>2</u>	< 1	NA
	3/5/2011	< 0.5	NPD	< 0.5	< 0.5	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	<u>1</u>	< 0.5	< 0.5
	5/7/2011	< 0.2	NPD	< 0.25	< 0.23	1	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	< 0.29	NPD	<u>1</u>	< 0.34	< 0.56
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	1	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/21/2011	< 0.5	NPD	< 0.98	< 0.6	1.25 ^J	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.85	NPD	<u>1.32^J</u>	< 0.18	< 1.9
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	0.85	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.85	NPD	<u>2.11</u>	< 0.18	< 1.9
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	1.1	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	NPD	<u>4.6</u>	< 0.18	< 1.5
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	0.80 ^J	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	NPD	9.1	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	<u>7.7</u>	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	NPD	22.9	< 0.17	< 1.5
	MW-12	5/18/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	1
3/18/2002		< 0.5	NPD	< 0.5	< 0.5	0.06 ^{JB}	< 0.5	< 0.5	0.1 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	0.08 ^{JB}	< 0.5	< 0.5	
7/23/2002		0	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.08 ^{JB}	< 0.5	NPD	< 0.5	< 0.5	< 0.5	
10/14/2004		< 0.5	NPD	< 0.5	0	3	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0	1	< 0.5	
2/22/2006		< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5	
12/20/2006		< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA	
1/7/2011		< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56	
2/5/2011		< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5	
5/8/2011		< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2	
7/22/2011		< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.85	NPD	< 0.47	< 0.18	< 1.9
5/23/2018		< 0.50	0.54 ^J	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	NPD	< 0.33	< 0.18	< 1.5
11/7/2018		< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	NPD	< 0.26	< 0.17	< 1.5
MW-13	5/18/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	<u>1</u>	< 0.17	< 0.5	
	3/18/2002	< 0.5	NPD	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	< 0.5	0.1 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	0.4 ^{JB}	< 0.5	< 0.5	
	7/23/2002	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.2 ^{JB}	< 0.5	0.1 ^{JB}	< 0.5	NPD	0	< 0.5	< 0.5	
	10/14/2004	< 0.5	NPD	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.22 ^{JB}	< 0.5	< 0.5	NPD	0.39 ^{JB}	< 0.5	< 0.5	
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5	
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA	
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56	
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5	
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2	
7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.85	NPD	< 0.47	< 0.18	< 1.9	
5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	NPD	< 0.33	< 0.18	< 1.5	
11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	NPD	<u>0.42^J</u>	< 0.17	< 1.5	
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000	
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400	

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylene Chloride µg/L	Tetrachloro ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-14R	4/12/2012	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	< 0.26	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	< 0.33	< 0.18	< 1.5
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
PZ-14	7/2/2001	< 0.5	NPD	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.53	< 0.5	< 0.5	NA	NPD	< 0.5	< 0.17	< 0.5
	3/19/2002	0	NPD	< 0.5	< 0.5	0.4 ^{JB}	< 0.5	0	0.1 ^{JB}	< 0.5	0.2 ^{JB}	< 0.5	NPD	2	< 0.5	0
	7/23/2002	0	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.1 ^{JB}	< 0.5	0.05 ^{JB}	< 0.5	NPD	0	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0.25 ^{JB}	< 0.5	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	1	NPD	< 1	< 1	NA
	1/7/2011	< 0.2	NPD	< 0.25	< 0.23	< 0.28	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	< 0.38	< 0.34	< 0.56
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
MW-15	3/19/2002	< 0.5	NPD	< 0.5	< 0.5	0.03 ^{JB}	< 0.5	< 0.5	0.1 ^{JB}	< 0.5	0.1 ^{JB}	< 0.5	NPD	0.09 ^{JB}	< 0.5	< 0.5
	7/23/2002	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.1 ^{JB}	< 0.5	0.06 ^{JB}	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	10/14/2004	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.18 ^{JB}	< 0.5	< 0.5	NPD	0.23 ^{JB}	< 0.5	< 0.5
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	12/20/2006	< 0.5	NPD	< 1	< 0.8	< 0.8	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	< 1	< 1	NA
	2/5/2011	< 0.5	NPD	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	< 0.5	< 0.5	< 0.5
	5/8/2011	< 0.4	NPD	< 0.24	< 0.54	< 0.2	< 0.45	< 0.43	< 0.43	< 0.22	< 0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2
	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	7/25/2016	< 0.5	< 0.5	< 0.24	< 0.41	< 0.26	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	< 0.33	< 0.18	< 1.5
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	0.34 ^J	< 0.17	< 1.5	
MW-19	10/14/2004	27	NPD	< 0.5	5	270	5	4	0	4.8 ^B	8	< 0.5	NPD	1,000	29	2
	11/2/2005	< 50	NPD	< 50	< 50	660	< 50	< 50	< 50	< 50	< 50	< 50	NPD	3,500	50	< 50
	2/22/2006	< 42	NPD	< 42	< 42	470	< 42	< 42	< 42	< 42	< 42	< 42	NPD	1,100	59	< 42
	12/20/2006	14	NPD	< 5	16	2,500	19	< 4	< 10	< 4	5	< 4	NPD	3,000	530	NA
	11/2/2007	6	NPD	< 5	< 4.6	1,280	10	< 4	52.2 ^{JB}	< 5.0	< 5.4	< 5.8	NPD	1,130	619	< 11
	11/5/2008	9	NPD	< 4.8	19	1,650	< 9	< 8.6	< 20	< 4.4	< 7	< 6.6	NPD	1,590	436	< 23
	7/25/2011	< 50	NPD	< 98	< 60	11,700	< 79	< 78	< 110	< 44	< 53	< 85	NPD	6,900	1,220	< 190
	4/11/2012	< 50	NPD	< 98	< 60	3,400	< 79	< 78	< 110	< 44	< 53	< 85	NPD	3,500	420	< 190
	7/6/2016	< 10	< 10	< 4.8	< 8.2	2,030	92	< 10	5	< 10	< 10	< 10	< 3.9	1,740	199	< 30
	5/24/2018	< 5.0	< 5.0	< 2.4	5.4 ^J	345	17.0	< 5.0	< 2.3	< 5.0	< 5.0	< 5.0	< 2.0	1,030	22	< 15.0
11/8/2018	< 2.5	< 21.9	< 2.7	4.7 ^J	401	15.3 ^J	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	1,270	22.1	< 15.0	
MW-19D DUP	7/6/2016	< 12.5	< 12.5	< 6	< 10.3	2,780	86	< 12.5	< 5.8	< 12.5	< 12.5	< 12.5	< 4.9	2,040	236	< 37.5
	5/24/2018	< 5.0	< 5.0	< 2.4	4.2 ^J	369	22	< 5.0	< 2.3	< 5.0	< 5.0	< 5.0	< 2.0	1,190	26	< 15.0
	11/8/2018	< 2.5	< 21.9	< 2.7	4.6 ^J	372	14.2 ^J	< 2.2	< 5.8	< 3.3	< 1.7	< 2.4	< 5.5	1,180	20.4	< 15.0
NR 140 ES	5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000	
NR 140 PAL	0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400	

Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylene Chloride µg/L	Tetrachloro ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
MW-20	10/14/2004	5	NPD	< 0.5	11	1,500	11	0	< 0.5	< 0.5	4	< 0.5	NPD	110	3,400	1
	11/2/2005	2	NPD	< 0.5	5	880	25	< 0.5	< 0.5	< 0.5	2	< 0.5	NPD	83	1,100	1
	2/22/2006	< 31	NPD	< 31	< 31	1,100	< 31	< 31	< 31	< 31	< 31	< 31	NPD	34	600	< 31
	12/20/2006	1	NPD	< 1	< 0.8	290	1	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	2	270	NA
	11/1/2007	1	NPD	< 0.25	< 0.23	37	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	1	96	< 0.56
	11/1/2007 (Dup)	1	NPD	< 0.25	< 0.23	27	0	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	1	89	< 0.56
	11/5/2008	1	NPD	< 0.24	2	301	2	< 0.43	< 1	< 0.22	1	< 0.33	NPD	2	264	< 1.2
	7/25/2011	< 0.89 J	NPD	< 0.98	< 0.6	49	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	< 0.47	194	< 1.9
	4/12/2012	< 10	NPD	< 19.6	< 12	3,140	22.4 J	< 15.6	< 22	< 8.8	< 10.6	< 17	NPD	< 9.4	590	< 38
	7/6/2016	< 25	< 25	< 12.1	< 20.5	5,860	20	< 25	< 11.6	< 25	< 25	< 25	< 9.9	< 16.5	1,080	< 75
	5/23/2018	< 62.5	< 62.5	< 30.2	< 51.3	6,560	< 32.1	< 62.5	< 29.1	< 62.5	< 62.5	< 62.5	< 24.7	< 41.3	966	< 188
	11/7/2018	< 1.2	< 10.9	< 1.4	1.9 J	800	< 5.5	< 1.1	< 2.9	< 1.6	< 0.86	< 1.2	< 2.8	< 1.3	132	< 7.5
MW-21	10/14/2004	0	NPD	0	200	6,100	170	5	< 0.5	4	1	< 0.5	NPD	20,000	1,100	1
	11/3/2005	0	NPD	< 0.5	160	8,900	150	2	< 0.5	3	1	< 0.5	NPD	20,000	1,400	1
	2/22/2006	< 50	NPD	< 50	27	2,500	28	< 50	< 50	< 50	< 50	< 50	NPD	4,200	500	< 50
	12/20/2006	< 0.5	NPD	< 1	2	240	4	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	210	62	NA
	11/5/2007	< 1	NPD	< 1.3	4	416	7	< 1	< 5	< 1.3	< 1.4	< 1.5	NPD	94	60	< 2.8
	11/5/2008	< 0.8	NPD	< 0.48	< 1.1	101	< 0.9	< 0.86	< 2	< 0.44	< 0.7	< 0.66	NPD	125	95	< 2.3
	7/25/2011	< 25	NPD	< 49	< 30	1,890	< 39.5	< 39	< 55	< 22	< 26.5	< 42.5	NPD	228	1,720	< 95
	4/12/2012	< 10	NPD	< 19.6	< 12	1,310	20.4 J	< 15.6	< 22	< 8.8	< 10.6	< 17	NPD	1,690	560	< 38
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	65	0.79	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	9.2	31	< 1.5
	5/24/2018	< 20.0	< 20.0	< 9.7	< 16.4	1,520	31.4 J	< 20.0	< 9.3	< 20.0	< 20.0	< 20.0	< 7.9	2,650	383	< 60.0
	11/8/2018	< 0.49	< 4.4	< 0.55	1.5 J	238	3.0 J	< 0.44	< 1.2	< 0.65	< 0.34	< 0.49	< 1.1	206	52.2	< 3.0
	MW-22	10/14/2004	0	NPD	0	14	1,600	16	0	< 0.5	< 0.5	0	< 0.5	NPD	320	520
11/2/2005		< 63	NPD	< 63	< 63	1,800	< 63	< 63	< 63	< 63	< 63	< 63	NPD	45	1,700	< 63
2/22/2006		< 50	NPD	< 50	< 50	3,100	15	< 50	< 50	< 50	< 50	< 50	NPD	120	2,400	< 50
12/20/2006		< 5	NPD	< 10	22	9,700	26	< 8	< 20	< 8	< 7	< 8	NPD	100	3,200	NA
11/2/2007		< 40	NPD	< 50	< 46	9,500	< 40	< 40	633 JB	< 50	< 54	< 58	NPD	107	3,710	< 110
11/5/2008		< 80	NPD	< 48	< 110	14,800	< 90	< 86	< 200	< 44	< 70	< 66	NPD	231	3,690	< 230
7/25/2011		< 25	NPD	< 49	< 30	9,800	94 J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	50 J	3,140	< 95
4/12/2012		< 25	NPD	< 49	< 30	10,900	88 J	< 39	< 55	< 22	< 26.5	< 42.5	NPD	37 J	2,500	< 95
7/6/2016		< 100	< 100	< 48.3	< 82	22,600	77	< 100	< 46.5	< 100	< 100	< 100	< 39.5	< 66.1	6,930	< 300
5/24/2018		< 200	< 200	< 96.6	< 164	20,000	< 103	< 200	< 93.0	< 200	< 200	< 200	< 79.0	< 132	5,130	< 600
11/8/2018		< 98.6	< 876	< 109	< 97.9	19,400	< 436	< 87.3	< 232	< 131	< 68.8	< 97.9	< 221	< 102	3,540	< 600
MW-23		10/14/2004	4	NPD	< 0.5	266	51,000	120	25	< 0.5	1	32	< 0.5	NPD	2,500	4,000
	11/2/2005	< 25	NPD	< 25	99	29,000	260	< 25	< 25	< 25	19	< 25	NPD	3,000	1,900	< 25
	2/22/2006	< 1300	NPD	< 1300	< 1300	34,000	< 1300	< 1300	< 1300	< 1300	< 1300	< 1300	NPD	1,800	2,000	< 1300
	2/22/2006 (Dup)	< 1300	NPD	< 1300	< 1300	34,000	< 1300	< 1300	< 1300	< 1300	< 1300	< 1300	NPD	2,500	2,200	< 1300
	12/20/2006	< 10	NPD	< 20	44	27,000	56	< 16	< 40	< 16	< 14	< 16	NPD	32	1,100	NA
	11/2/2007	< 40	NPD	< 50	< 46	20,300	< 40	< 40	536 JB	< 50	< 54	< 58	NPD	866	2,870	< 110
	11/5/2008	< 200	NPD	< 120	< 270	23,400	< 230	< 220	< 500	< 110	80	< 170	NPD	5,370	2,390	< 580
	7/25/2011	< 50	NPD	< 98	< 60	13,100	< 79	< 78	< 110	< 44	< 53	< 85	NPD	< 47	1,490	< 190
	4/12/2012	< 50	NPD	< 98	< 60	8,400	< 79	< 78	< 100	< 44	< 53	< 85	NPD	< 47	1,200	< 190
	7/6/2016	< 50	< 50	< 24.2	< 41	9,840	42	< 50	< 23.3	< 50	< 50	< 50	< 19.7	< 33.1	1,340	< 150
	5/23/2018	< 125	< 125	< 60.4	< 103	19,000	< 64.1	< 125	< 58.1	< 125	< 125	< 125	< 49.3	2,000	1,330	< 375
	11/7/2018	< 24.6	< 219	< 27.3	< 24.5	8,930	< 109	< 21.8	< 58.1	< 32.6	< 17.2	< 24.5	< 55.2	114	1,160	< 150
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

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MW-24	10/14/2004	< 0.5	NPD	< 0.5	0	<u>22</u>	0.74	0.15	< 0.5	< 0.5	0.16	< 0.5	NPD	55	2	< 0.5	
	11/2/2005	< 0.5	NPD	< 0.5	< 0.5	0.78	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	1	< 0.5	< 0.5	
	11/2/2005 (Dup)	< 0.5	NPD	< 0.5	< 0.5	0.8	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	1	0	< 0.5	
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	0.83	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	2	< 0.5	< 0.5	
	12/20/2006	< 0.5	NPD	< 1	< 0.8	1	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	3	< 1	NA	
	11/1/2007	< 0.2	NPD	< 0.25	< 0.23	1.4	< 0.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	3	< 0.34	< 0.56	
	11/5/2008	< 0.4	NPD	< 0.24	< 0.54	0.8	< 0.45	< 0.43	< 1	< 0.22	0.35	< 0.33	NPD	< 0.32	< 0.3	< 1.2	
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	<u>16</u>	< 0.79	< 0.78	< 1.1	< 0.44	0.53	< 0.85	NPD	14	1	< 1.9	
	7/12/2012	< 0.5	NPD	< 0.98	< 0.6	2.4	< 0.79	< 0.78	< 1.1	NA	0.53	< 0.85	NPD	5	0.26^J	< 1.9	
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	3.8	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.20	8.5	< 0.18	< 1.5
11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	1.8	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	7.2	< 0.17	< 1.5		
MW-25	11/2/2005	< 0.5	NPD	< 0.5	< 0.5	1.4	0.17	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0.1	3	< 0.5	
	2/22/2006	< 0.5	NPD	< 0.5	< 0.5	<u>8</u>	1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	NPD	0.49	9	< 0.5	
	12/20/2006	< 0.5	NPD	< 1	< 0.8	<u>18</u>	3	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	4	4	NA	
	11/1/2007	< 0.2	NPD	< 0.25	< 0.23	<u>10</u>	1.2	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	2	9	< 0.56	
	11/5/2008	< 0.4	NPD	< 0.24	< 0.54	<u>8</u>	1.4	< 0.43	< 1	< 0.22	< 0.35	< 0.33	NPD	3	10	< 1.2	
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	<u>8</u>	1.92 ^J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	4	42	< 1.9	
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	<u>8</u>	1.94 ^J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	2	37	< 1.9	
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	<u>48</u>	10.0	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	77.1	1.8	< 1.5	
11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	<u>38.6</u>	4.6	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	15.2	23.2	< 1.5		
MW-26	11/2/2005	15	NPD	< 0.5	180	7,400	86	< 0.5	< 0.5	1	3.5	< 0.5	NPD	5,600	1,500	0	
	2/22/2006	< 63	NPD	< 63	31	2,100	16	< 63	< 63	< 63	< 63	< 63	NPD	930	980	< 63	
	12/20/2006	<u>1</u>	NPD	< 1	4	210	< 0.8	< 0.8	< 2	< 0.8	< 0.7	< 0.8	NPD	120	77	NA	
	11/1/2007	<u>1</u>	NPD	< 0.25	<u>3</u>	233	1.9	< 0.2	< 1	< 0.25	< 0.27	< 0.29	NPD	85	195	< 0.56	
	11/5/2008	< 0.8	NPD	< 0.48	<u>2</u>	138	1.5	< 0.86	< 1	< 0.44	< 0.7	< 0.66	NPD	69	62	< 2.3	
	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	<u>55</u>	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	7	10	< 1.9	
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	<u>69</u>	1.4 ^J	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	26	60	< 1.9	
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	124	1.7	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	4	65	< 1.5	
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	72.2	1.6	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	1.8	< 0.18	< 1.5	
11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	<u>57.5</u>	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	1.6	1.1	< 1.5		
MW-27	11/2/2005	7	NPD	< 0.5	150	27,000	190	0	< 0.5	< 0.5	7	< 0.5	NPD	< 630	3,200	5	
	2/22/2006	< 630	NPD	< 630	< 630	17,000	< 630	< 630	< 630	< 630	< 630	< 630	NPD	150	2,800	< 630	
	12/20/2006	< 5	NPD	< 10	36	14,000	<u>46</u>	< 8	< 20	< 8	< 7	< 8	NPD	84	860	NA	
	11/1/2007	< 40	NPD	< 50	< 46	16,400	<u>67</u>	< 40	< 40	486	< 50	< 54	< 58	NPD	79	2,300	< 110
	11/5/2008	< 80	NPD	< 48	< 110	17,300	< 90	< 86	< 200	< 44	< 70	< 66	NPD	64	2,080	< 230	
	7/25/2011	< 25	NPD	< 49	< 30	10,200	<u>55^J</u>	< 39	< 55	< 22	< 26.5	< 42.5	NPD	< 23.5	1,340	< 95	
	4/12/2012	< 50	NPD	< 98	< 60	10,300	<u>112^J</u>	< 78	< 110	< 44	< 53	< 85	NPD	< 47	960	< 190	
	7/6/2016	< 50	< 50	< 24.2	< 41	12,200	<u>54</u>	< 50	< 23.3	< 50	< 50	< 50	< 19.7	63	1,370	< 150	
	5/24/2018	< 100	< 100	< 48.3	< 82.0	12,000	<u>51.8^J</u>	< 100	< 46.5	< 100	< 100	< 100	< 39.5	127^J	1,310	< 300	
11/8/2018	< 49.3	< 438	< 54.5	< 49.0	12,000	< 218	< 43.6	< 116	< 65.3	< 34.4	< 49.0	< 110	132^J	1,260	< 300		
MW-27 DUP	12/20/2006	< 5	NPD	< 10	40	14,000	<u>45</u>	< 8	< 20	< 8	< 7	< 8	NPD	78	910	NA	
	5/24/2018	< 125	< 125	< 60.4	< 103	12,600	< 64.1	< 125	< 58.1	< 125	< 125	< 125	< 49.3	151^J	1,310	< 375	
	11/8/2018	< 61.6	< 547	< 68.1	< 61.2	11,900	< 273	< 54.5	< 145	< 81.6	< 43.0	< 61.2	< 138	139^J	1,290	< 375	
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	0	2000		
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	1	1	160	40	1	0	400		

**Table 3
Detected VOCs in Groundwater - Summary
Mankowski Property, 2600 50th Street
Kenosha, WI**

Sample Location	Sampling Date	Benzene µg/L	Chloro methane µg/L	1,1-DCA µg/L	1,1-DCE µg/L	cis-1,2- DCE µg/L	trans-1,2- DCE µg/L	Ethyl- benzene µg/L	Methylene Chloride µg/L	Tetrachloro- ethene µg/L	Toluene µg/L	1,1,1-TCA µg/L	1,1,2-TCA µg/L	Trichloro ethene µg/L	Vinyl Chloride µg/L	Xylene (Total) µg/L
SMW-2	6/28/2005	< 1	NPD	< 1	< 1	0.36 ^J	< 1	< 1	<u>3.4</u>	< 1	0.24 ^J	< 1	NPD	32	< 1	< 1
	7/22/2011	< 0.5	NPD	< 0.5	< 0.98	6	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	NPD	194	< 0.18	< 1.9
	4/12/2012	< 2.5	NPD	< 4.9	< 3	<u>8.4^J</u>	< 3.95	< 3.9	< 5.5	< 2.2	< 2.65	< 4.25	NPD	162	< 0.9	< 9.5
	7/5/2016	< 1.2	< 1.2	< 0.6	< 1	314	7	< 1.2	< 0.58	< 1.2	< 1.2	< 1.2	< 0.49	15.1	< 0.44	< 3.8
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	<u>50</u>	1.3	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	31.7	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	<u>28.5</u>	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	28	< 0.17	< 1.5
SMW-3	7/13/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	1.88	< 0.85	NPD	< 0.47	< 0.18	< 1.9
	7/6/2016	< 0.5	< 0.5	< 0.24	< 0.41	< 0.26	< 0.26	< 0.5	< 0.23	< 0.5	< 0.5	< 0.5	< 0.2	0.47	< 0.18	< 1.5
	5/23/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	2	< 0.18	< 1.5
	11/7/2018	< 0.25	< 2.2	< 0.27	< 0.24	< 0.27	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	<u>0.50^J</u>	< 0.17	< 1.5
TW-1	7/25/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	4/12/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	3.3	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	< 0.26	< 0.17	< 1.5
TW-2	7/22/2011	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	4/11/2012	< 0.5	NPD	< 0.98	< 0.6	< 0.74	< 0.79	< 0.78	< 1.1	< 0.44	< 0.53	< 0.85	< 0.47	< 0.47	< 0.18	< 1.9
	5/24/2018	< 0.50	< 0.50	< 0.24	< 0.41	< 0.26	< 0.26	< 0.50	< 0.23	< 0.50	< 0.50	< 0.50	< 0.20	< 0.33	< 0.18	< 1.5
	11/8/2018	< 0.25	< 2.2	< 0.27	< 0.24	0.60 ^J	< 1.1	< 0.22	< 0.58	< 0.33	< 0.17	< 0.24	< 0.55	<u>2.1</u>	< 0.17	< 1.5
NR 140 ES		5	7	850	7	70	100	700	5	5	800	200	5	5	0.2	2000
NR 140 PAL		0.5	0.7	85	0.7	7	20	140	0.5	0.5	160	40	0.5	0.5	0.02	400

Notes: Pre-2012 data with a value of 0 reported for the concentration was provided in that format from the prior consultants. Original lab data not available to verify results.

DCE - Dichloroethene NPD - Not previously detected (historic data from prior consultants)

µg/L = micrograms per liter ^J - Estimated concentration between reporting limit and method detection limit.

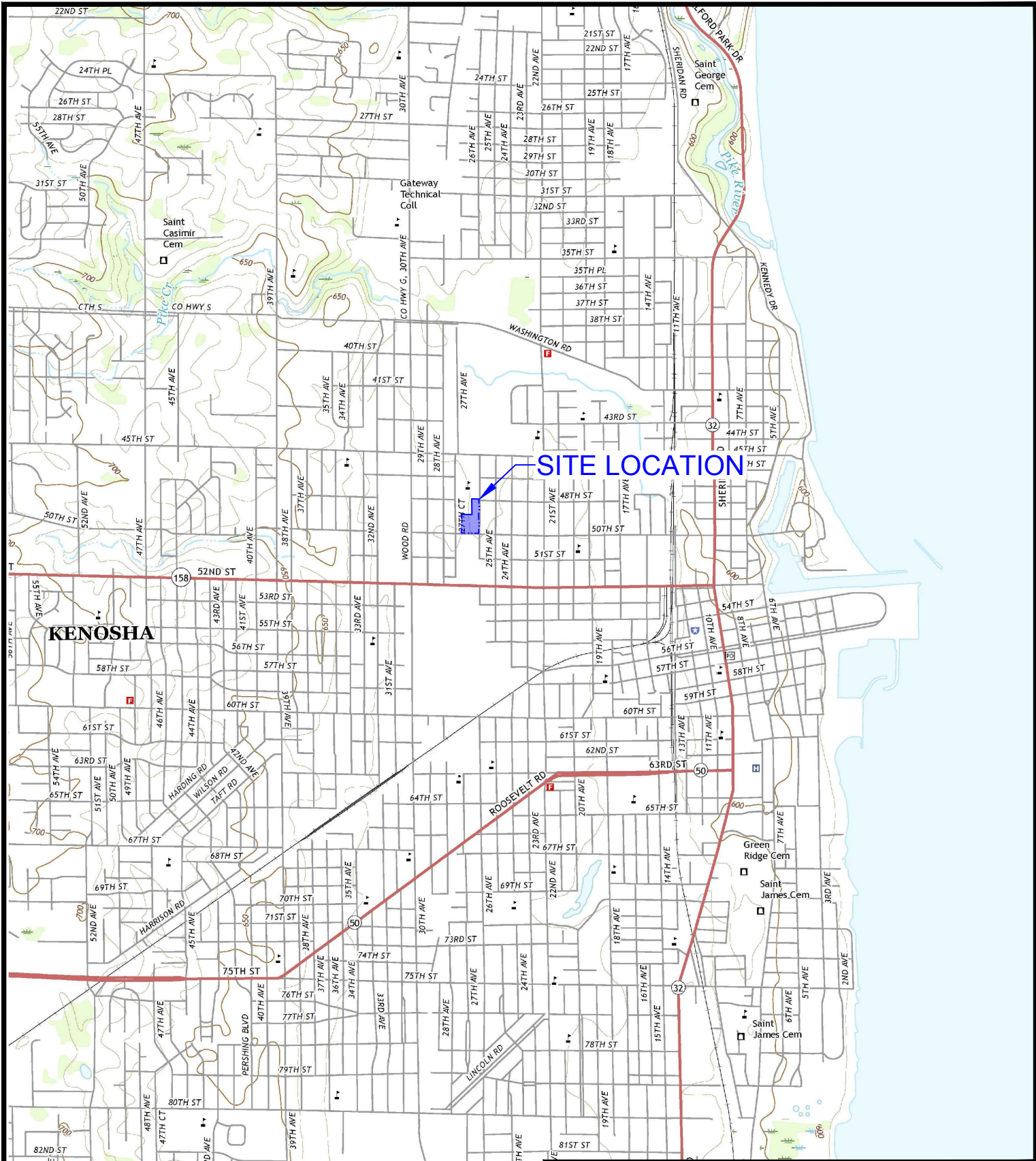
NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard, February 2017, Exceedances are **Bold**.

NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit, February 2017, Exceedances are Underlined Italics.

Exceedances: BOLD = concentration exceeds Chapter NR 140 PAL

Data prior to 2016 was collected by prior consultants and the data quality/data quality qualifiers are carried over from prior reports.

File: \\usmwmk1f8001\prod\Dat\Projects\60578356\900_00\Work\CAD\Mankowski_2018\Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED: November 27, 2018 - 9:37 AM



Notes:
1. TOPO map from <http://store.usgs.gov>
Kenosha quadrangle, dated: 2016

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1555 RiverCenter Dr
Milwaukee, WI
414.944.6080

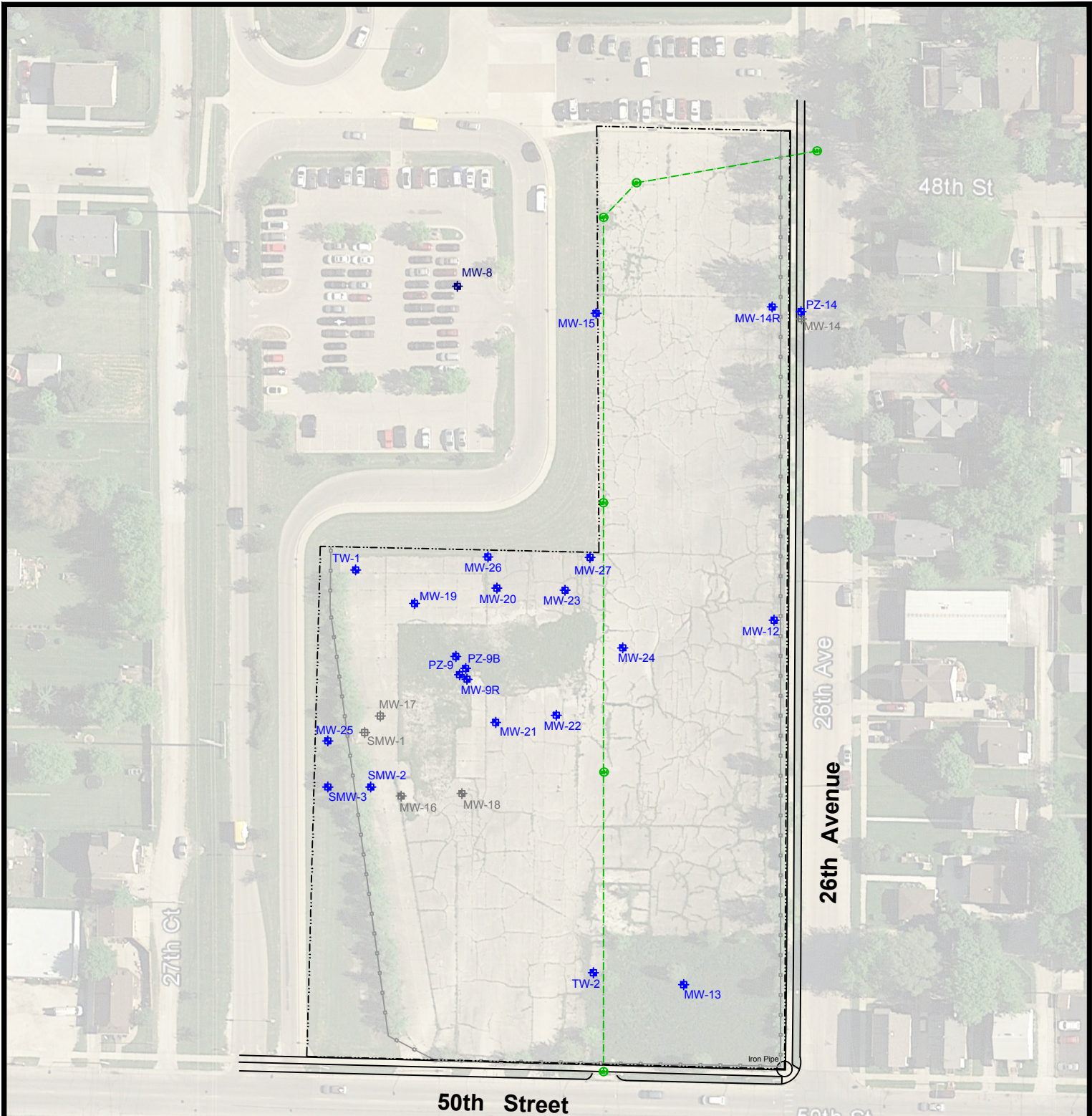


Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

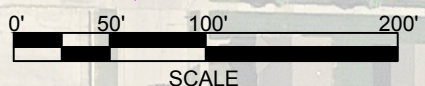
SITE LOCATION

Project Number: 60578356 Drawn By: SAE/ANM Date: 11/27/2018 Figure No. 1

File: \\usmwwk1f9001\prod\Dat\Projects\60578356\900_Work\CAD\Mankowski_2018\Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED November 27, 2018 - 9:41 AM



- NOTES:**
1. Base map from Sigma Group.
 2. Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.



- LEGEND:**
- MONITORING WELL
 - MONITORING WELL ABANDONED
 - MONITORING WELL (NOT SAMPLED 2018)
 - MONITORING WELL (NOT FOUND 2018)
 - FENCE
 - PROPERTY BOUNDARY
 - 78-INCH STORM SEWER
 - STORM SEWER MANHOLE



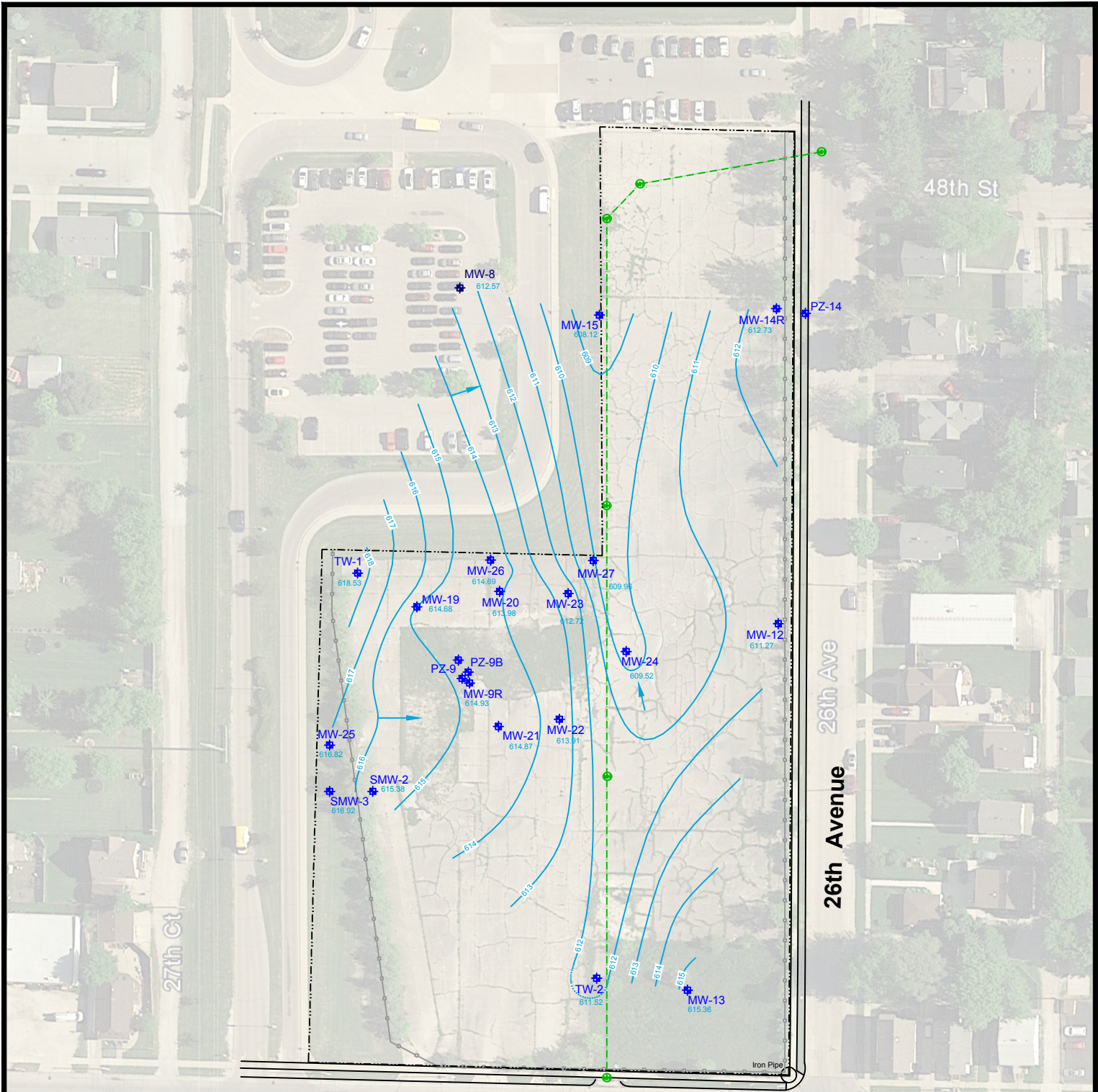
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Mankowski Site
50th Street and 26th Avenue
Kenosha, WI

SITE LAYOUT

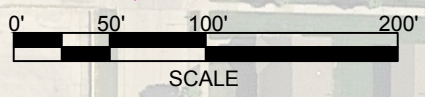


Project Number: 60578356 Drawn By: SAE/ANM Date: 11/27/2018 Figure No. 2



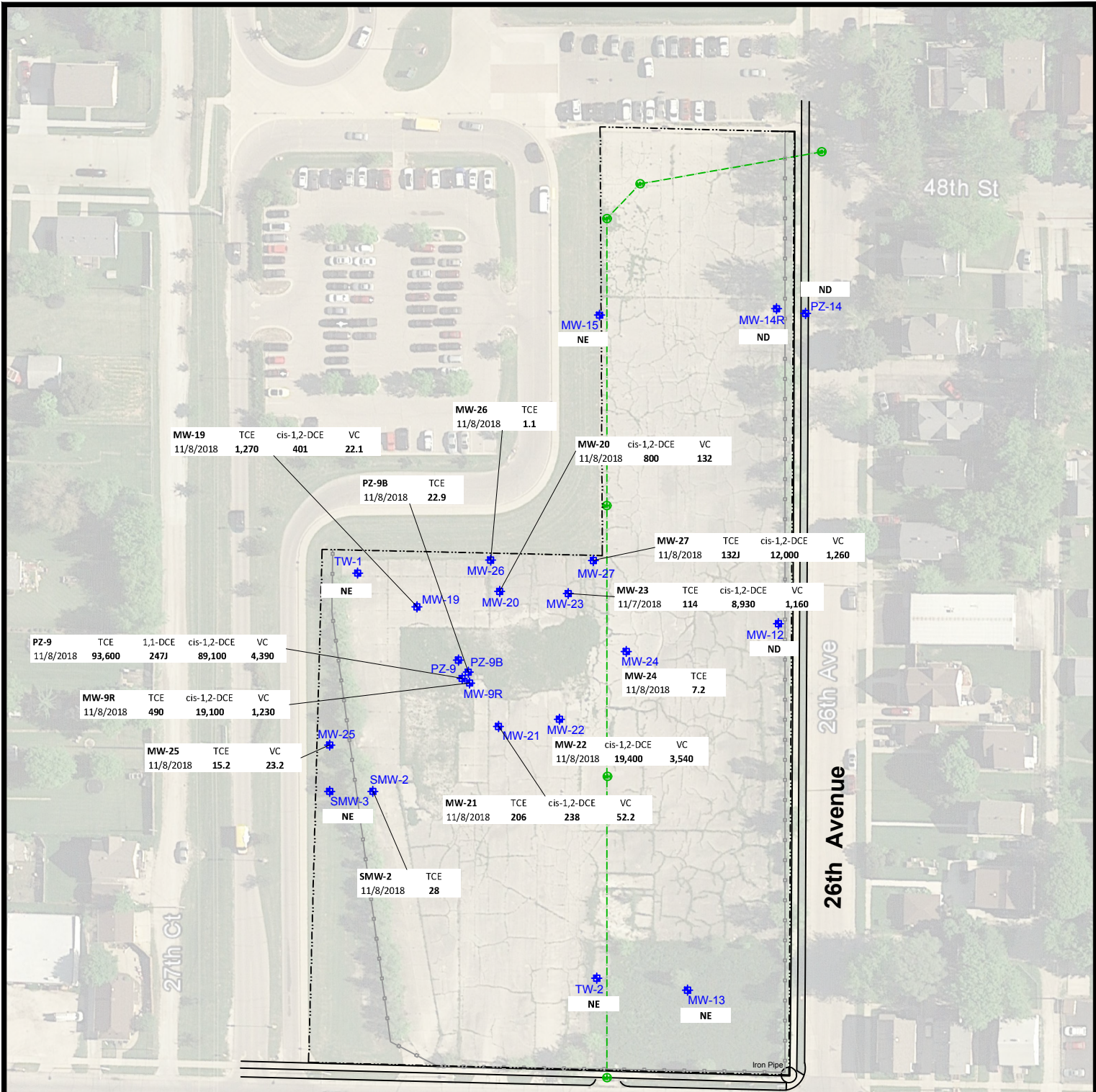
- NOTES:**
1. Base map from Sigma Group.
 2. Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.

- LEGEND:**
- + MONITORING WELL
 - 614 GROUNDWATER ELEVATION
 - ~ GROUNDWATER CONTOUR
 - GROUNDWATER FLOW
 - STORM SEWER (78")

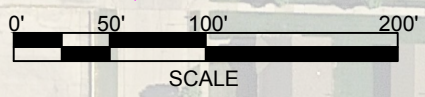


	AECOM Milwaukee Office 1555 RiverCenter Dr Milwaukee, WI 414.944.6080	Mankowski Site 50th Street and 26th Avenue Kenosha, WI
	WATER TABLE CONTOUR MAP (NOVEMBER 2018)	
	Project Number: 60578356	Drawn By: JSM
Date: 11/26/2018		Figure No. 3

File: \\usmwwk1f9001\prod\Dat\Projects\60578356\900_Work\CAD\Mankowski_2018\Nov.dwg; USER: MACKINNEY, JOEL; PLOTTED November 28, 2018 - 3:54 PM



- NOTES:
1. Base map from Sigma Group.
 2. Aerial photo from Google Earth Pro; image dated 6/2/2015; downloaded on 6/27/2016.
 3. TCE = Trichloroethene
 4. cis-12-DCE = cis-1,2-Dichloroethene
 5. VC = Vinyl Chloride



- LEGEND:
- FENCE
 - - - PROPERTY BOUNDARY
 - - - 78-INCH STORM SEWER
 - ⊕ STORM SEWER MANHOLE
 - ⊕ MONITORING WELL

- J ESTIMATED CONCENTRATION BETWEEN REPORTING LIMIT AND METHOD DETECTION LIMIT
- ND NONE DETECTED
- NE NO EXCEEDANCE



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Mankowski Site
 50th Street and 26th Avenue
 Kenosha, WI

GROUNDWATER ANALYTICAL SUMMARY
 ES EXCEEDANCES
 (November 2018)



Project Number: 60578356 Drawn By: JSM Date: 11/28/2018 Figure No. 4

FIGURE 5
MW-9R TCE Concentrations and
Groundwater Elevations over Time

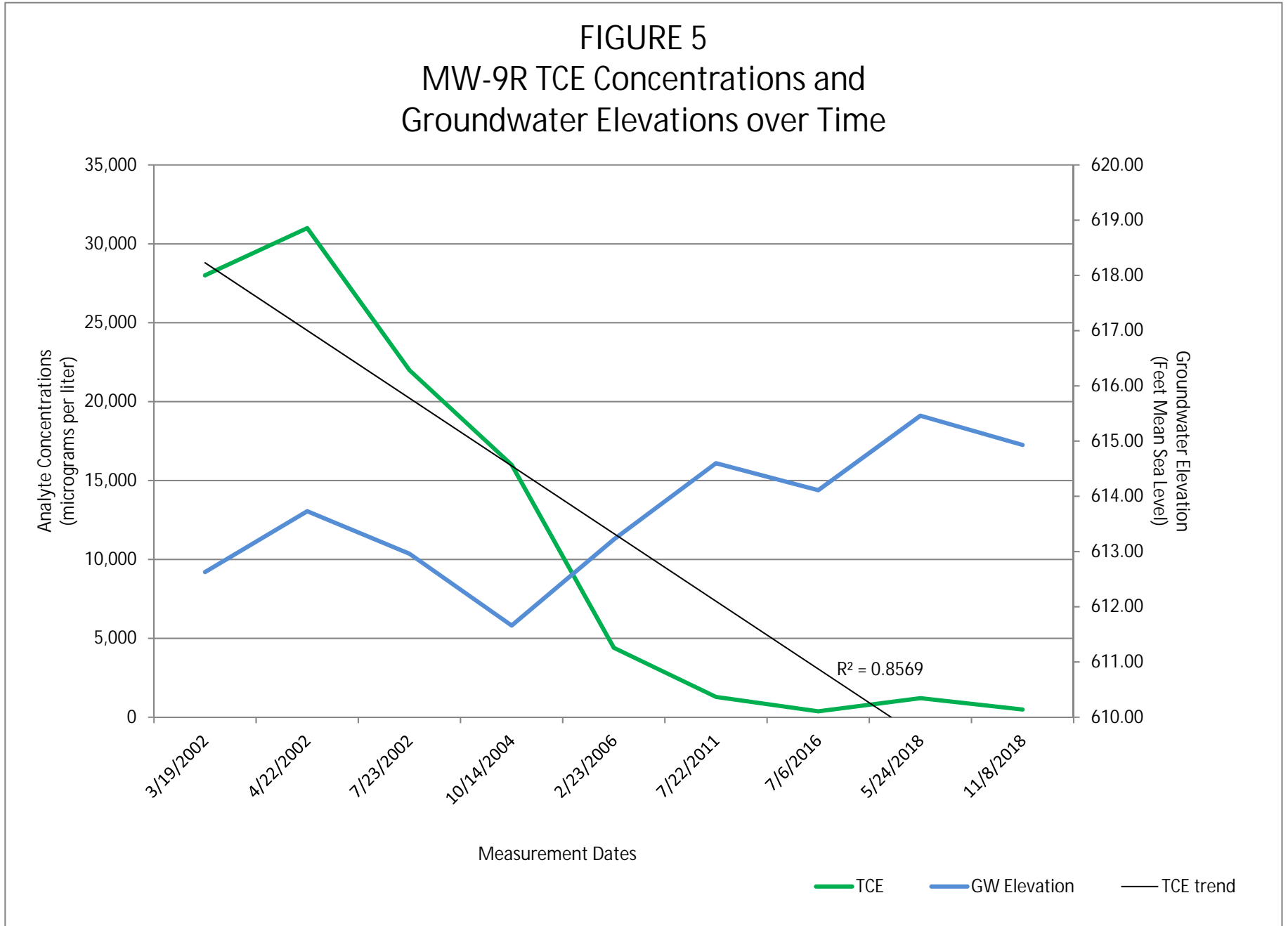


FIGURE 6
PZ-9 TCE Concentrations and
Groundwater Elevations over Time

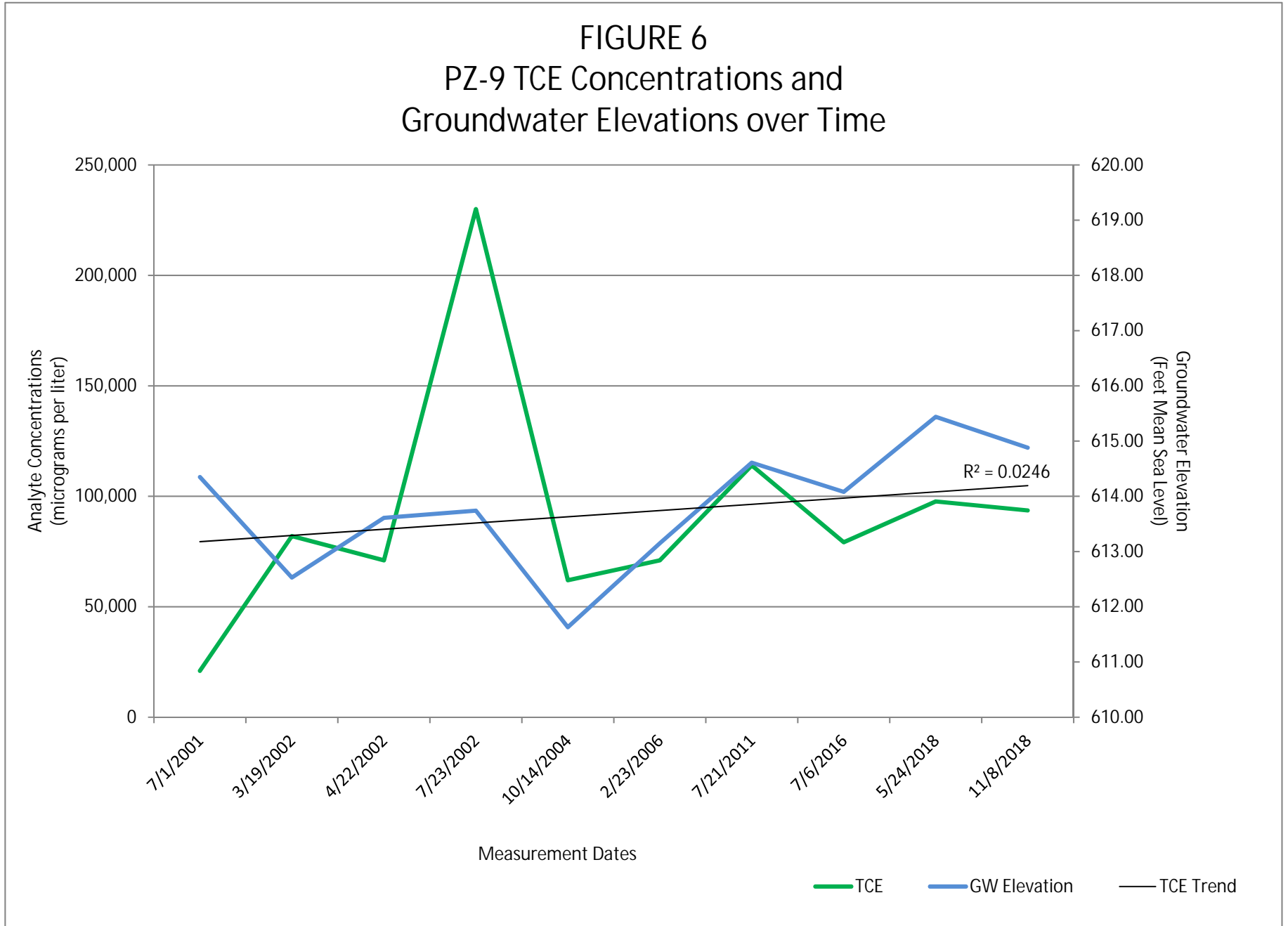


FIGURE 7
MW-19 TCE Concentrations and
Groundwater Elevations over Time

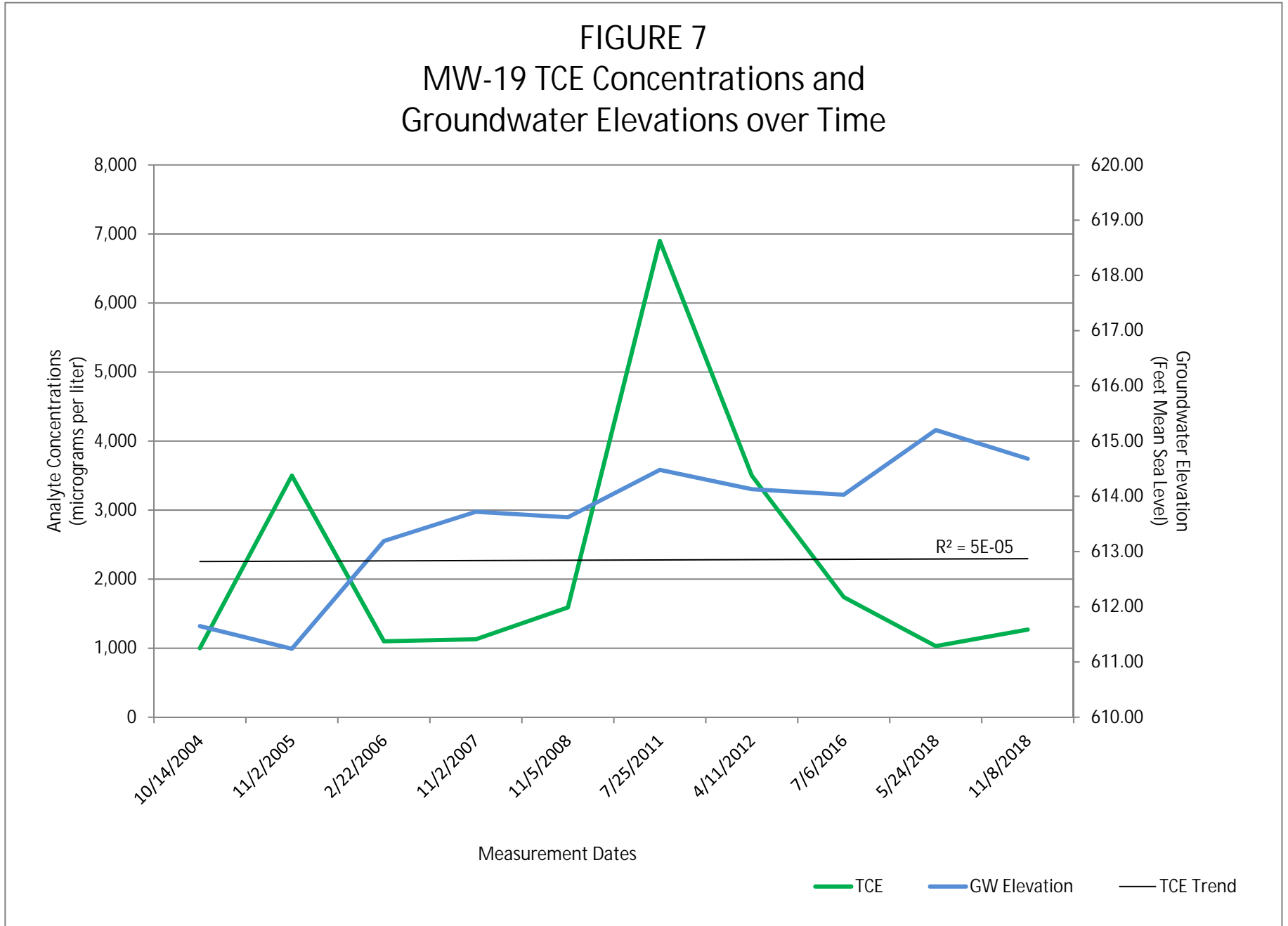
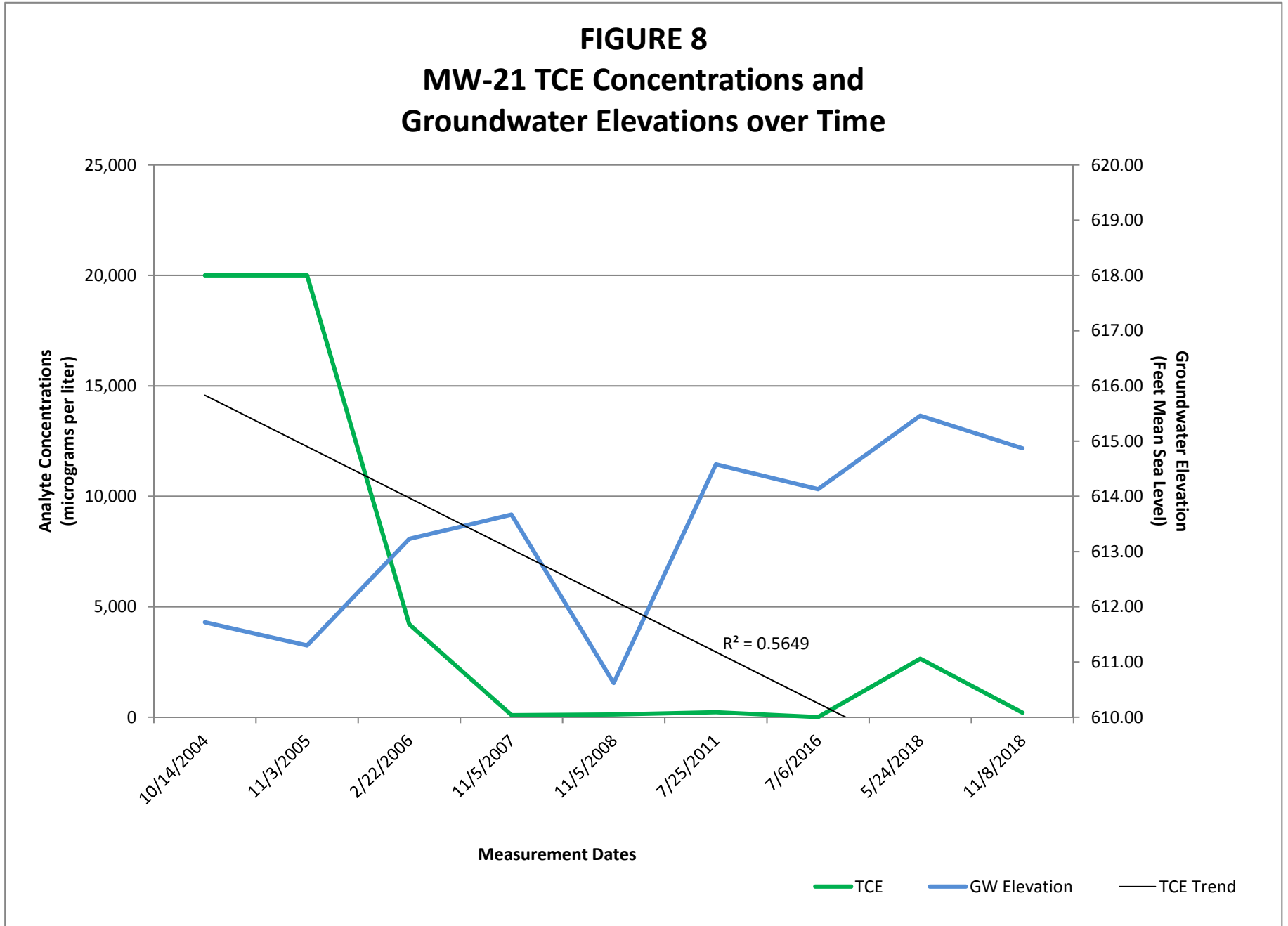


FIGURE 8
MW-21 TCE Concentrations and
Groundwater Elevations over Time



November 15, 2018

Lanette Altenbach
AECOM, Inc.
1555 N River Center Drive
Suite 214
Milwaukee, WI 53212

RE: Project: 60578356 MANKOWSKI
Pace Project No.: 40179444

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2018. 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@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60578356 MANKOWSKI
Pace Project No.: 40179444

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40179444001	TRIP BLANK	Water	11/07/18 08:00	11/10/18 09:00
40179444002	MW-13	Water	11/07/18 13:00	11/10/18 09:00
40179444003	MW-12	Water	11/07/18 13:20	11/10/18 09:00
40179444004	MW-14R	Water	11/07/18 14:10	11/10/18 09:00
40179444005	PZ-14	Water	11/07/18 14:15	11/10/18 09:00
40179444006	MW-15	Water	11/07/18 14:55	11/10/18 09:00
40179444007	MW-20	Water	11/07/18 15:10	11/10/18 09:00
40179444008	MW-23	Water	11/07/18 15:50	11/10/18 09:00
40179444009	SMW-3	Water	11/07/18 15:55	11/10/18 09:00
40179444010	TW-2	Water	11/08/18 09:05	11/10/18 09:00
40179444011	TW-1	Water	11/08/18 09:15	11/10/18 09:00
40179444012	MW-25	Water	11/08/18 10:00	11/10/18 09:00
40179444013	PZ-9	Water	11/08/18 10:05	11/10/18 09:00
40179444014	MW-24	Water	11/08/18 10:50	11/10/18 09:00
40179444015	MW-26	Water	11/08/18 11:00	11/10/18 09:00
40179444016	MW-21	Water	11/08/18 11:30	11/10/18 09:00
40179444017	SMW-2	Water	11/08/18 11:35	11/10/18 09:00
40179444018	MW-22	Water	11/08/18 13:55	11/10/18 09:00
40179444019	MW-27	Water	11/08/18 14:00	11/10/18 09:00
40179444020	MW-27D	Water	11/08/18 14:00	11/10/18 09:00
40179444021	MW-9R	Water	11/08/18 14:40	11/10/18 09:00
40179444022	MW-19	Water	11/08/18 14:45	11/10/18 09:00
40179444023	MW-19D	Water	11/08/18 14:45	11/10/18 09:00
40179444024	PZ-9B	Water	11/08/18 15:20	11/10/18 09:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40179444001	TRIP BLANK	EPA 8260	HNW	63	PASI-G
40179444002	MW-13	EPA 8260	HNW	63	PASI-G
40179444003	MW-12	EPA 8260	HNW	63	PASI-G
40179444004	MW-14R	EPA 8260	HNW	63	PASI-G
40179444005	PZ-14	EPA 8260	HNW	63	PASI-G
40179444006	MW-15	EPA 8260	HNW	63	PASI-G
40179444007	MW-20	EPA 8260	HNW	63	PASI-G
40179444008	MW-23	EPA 8260	HNW	63	PASI-G
40179444009	SMW-3	EPA 8260	HNW	63	PASI-G
40179444010	TW-2	EPA 8260	HNW	63	PASI-G
40179444011	TW-1	EPA 8260	HNW	63	PASI-G
40179444012	MW-25	EPA 8260	HNW	63	PASI-G
40179444013	PZ-9	EPA 8260	HNW	63	PASI-G
40179444014	MW-24	EPA 8260	HNW	63	PASI-G
40179444015	MW-26	EPA 8260	HNW	63	PASI-G
40179444016	MW-21	EPA 8260	HNW	63	PASI-G
40179444017	SMW-2	EPA 8260	HNW	63	PASI-G
40179444018	MW-22	EPA 8260	HNW	63	PASI-G
40179444019	MW-27	EPA 8260	HNW	63	PASI-G
40179444020	MW-27D	EPA 8260	HNW	63	PASI-G
40179444021	MW-9R	EPA 8260	HNW	63	PASI-G
40179444022	MW-19	EPA 8260	HNW	63	PASI-G
40179444023	MW-19D	EPA 8260	HNW	63	PASI-G
40179444024	PZ-9B	EPA 8260	HNW	63	PASI-G

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SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI
Pace Project No.: 40179444

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40179444002	MW-13					
EPA 8260	Trichloroethene	0.42J	ug/L	1.0	11/12/18 12:36	
40179444006	MW-15					
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	11/12/18 19:57	
40179444007	MW-20					
EPA 8260	1,1-Dichloroethene	1.9J	ug/L	5.0	11/12/18 23:18	
EPA 8260	cis-1,2-Dichloroethene	800	ug/L	5.0	11/12/18 23:18	
EPA 8260	Vinyl chloride	132	ug/L	5.0	11/12/18 23:18	
40179444008	MW-23					
EPA 8260	cis-1,2-Dichloroethene	8930	ug/L	100	11/12/18 23:41	
EPA 8260	Trichloroethene	114	ug/L	100	11/12/18 23:41	
EPA 8260	Vinyl chloride	1160	ug/L	100	11/12/18 23:41	
40179444009	SMW-3					
EPA 8260	Trichloroethene	0.50J	ug/L	1.0	11/12/18 20:19	
40179444010	TW-2					
EPA 8260	cis-1,2-Dichloroethene	0.60J	ug/L	1.0	11/12/18 20:42	
EPA 8260	Trichloroethene	2.1	ug/L	1.0	11/12/18 20:42	
40179444011	TW-1					
EPA 8260	cis-1,2-Dichloroethene	3.3	ug/L	1.0	11/12/18 21:04	
40179444012	MW-25					
EPA 8260	cis-1,2-Dichloroethene	38.6	ug/L	1.0	11/12/18 21:26	
EPA 8260	trans-1,2-Dichloroethene	4.6	ug/L	3.6	11/12/18 21:26	
EPA 8260	Trichloroethene	15.2	ug/L	1.0	11/12/18 21:26	
EPA 8260	Vinyl chloride	23.2	ug/L	1.0	11/12/18 21:26	
40179444013	PZ-9					
EPA 8260	1,1-Dichloroethene	247J	ug/L	1000	11/12/18 13:43	
EPA 8260	cis-1,2-Dichloroethene	89100	ug/L	1000	11/12/18 13:43	
EPA 8260	Trichloroethene	93600	ug/L	1000	11/12/18 13:43	
EPA 8260	Vinyl chloride	4390	ug/L	1000	11/12/18 13:43	
40179444014	MW-24					
EPA 8260	cis-1,2-Dichloroethene	1.8	ug/L	1.0	11/12/18 21:49	
EPA 8260	Trichloroethene	7.2	ug/L	1.0	11/12/18 21:49	
40179444015	MW-26					
EPA 8260	cis-1,2-Dichloroethene	57.5	ug/L	1.0	11/12/18 22:11	
EPA 8260	Trichloroethene	1.6	ug/L	1.0	11/12/18 22:11	
EPA 8260	Vinyl chloride	1.1	ug/L	1.0	11/12/18 22:11	
40179444016	MW-21					
EPA 8260	1,1-Dichloroethene	1.5J	ug/L	2.0	11/12/18 22:56	
EPA 8260	cis-1,2-Dichloroethene	238	ug/L	2.0	11/12/18 22:56	
EPA 8260	trans-1,2-Dichloroethene	3.0J	ug/L	7.3	11/12/18 22:56	
EPA 8260	Trichloroethene	206	ug/L	2.0	11/12/18 22:56	

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SUMMARY OF DETECTION

Project: 60578356 MANKOWSKI
Pace Project No.: 40179444

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40179444016	MW-21					
EPA 8260	Vinyl chloride	52.2	ug/L	2.0	11/12/18 22:56	
40179444017	SMW-2					
EPA 8260	cis-1,2-Dichloroethene	28.5	ug/L	1.0	11/12/18 22:34	
EPA 8260	Trichloroethene	28.0	ug/L	1.0	11/12/18 22:34	
40179444018	MW-22					
EPA 8260	cis-1,2-Dichloroethene	19400	ug/L	400	11/12/18 14:28	
EPA 8260	Vinyl chloride	3540	ug/L	400	11/12/18 14:28	
40179444019	MW-27					
EPA 8260	cis-1,2-Dichloroethene	12000	ug/L	200	11/12/18 14:51	
EPA 8260	Trichloroethene	132J	ug/L	200	11/12/18 14:51	
EPA 8260	Vinyl chloride	1260	ug/L	200	11/12/18 14:51	
40179444020	MW-27D					
EPA 8260	cis-1,2-Dichloroethene	11900	ug/L	250	11/12/18 15:13	
EPA 8260	Trichloroethene	139J	ug/L	250	11/12/18 15:13	
EPA 8260	Vinyl chloride	1290	ug/L	250	11/12/18 15:13	
40179444021	MW-9R					
EPA 8260	cis-1,2-Dichloroethene	19100	ug/L	250	11/14/18 12:30	
EPA 8260	Trichloroethene	490	ug/L	250	11/14/18 12:30	
EPA 8260	Vinyl chloride	1230	ug/L	250	11/14/18 12:30	
40179444022	MW-19					
EPA 8260	1,1-Dichloroethene	4.7J	ug/L	10.0	11/14/18 12:51	
EPA 8260	cis-1,2-Dichloroethene	401	ug/L	10.0	11/14/18 12:51	
EPA 8260	trans-1,2-Dichloroethene	15.3J	ug/L	36.4	11/14/18 12:51	
EPA 8260	Trichloroethene	1270	ug/L	10.0	11/14/18 12:51	
EPA 8260	Vinyl chloride	22.1	ug/L	10.0	11/14/18 12:51	
40179444023	MW-19D					
EPA 8260	1,1-Dichloroethene	4.6J	ug/L	10.0	11/14/18 13:13	
EPA 8260	cis-1,2-Dichloroethene	372	ug/L	10.0	11/14/18 13:13	
EPA 8260	trans-1,2-Dichloroethene	14.2J	ug/L	36.4	11/14/18 13:13	
EPA 8260	Trichloroethene	1180	ug/L	10.0	11/14/18 13:13	
EPA 8260	Vinyl chloride	20.4	ug/L	10.0	11/14/18 13:13	
40179444024	PZ-9B					
EPA 8260	cis-1,2-Dichloroethene	7.7	ug/L	1.0	11/14/18 13:34	
EPA 8260	Trichloroethene	22.9	ug/L	1.0	11/14/18 13:34	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: TRIP BLANK **Lab ID: 40179444001** Collected: 11/07/18 08:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 11:52	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 11:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 11:52	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 11:52	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 11:52	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 11:52	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 11:52	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 11:52	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 11:52	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 11:52	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 11:52	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 11:52	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 11:52	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 11:52	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 11:52	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 11:52	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 11:52	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 11:52	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 11:52	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 11:52	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 11:52	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 11:52	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 11:52	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 11:52	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 11:52	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 11:52	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 11:52	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 11:52	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 11:52	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 11:52	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 11:52	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 11:52	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 11:52	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 11:52	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 11:52	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 11:52	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 11:52	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 11:52	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 11:52	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 11:52	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 11:52	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 11:52	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 11:52	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 11:52	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 11:52	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 11:52	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: TRIP BLANK **Lab ID: 40179444001** Collected: 11/07/18 08:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 11:52	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 11:52	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 11:52	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 11:52	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 11:52	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 11:52	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 11:52	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/12/18 11:52	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 11:52	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 11:52	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 11:52	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 11:52	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 11:52	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 11:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/12/18 11:52	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/12/18 11:52	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/12/18 11:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-13 **Lab ID: 40179444002** Collected: 11/07/18 13:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 12:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 12:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 12:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 12:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 12:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 12:36	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 12:36	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 12:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 12:36	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 12:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 12:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 12:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 12:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 12:36	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 12:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 12:36	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 12:36	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 12:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 12:36	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 12:36	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 12:36	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 12:36	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 12:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 12:36	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 12:36	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 12:36	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 12:36	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 12:36	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 12:36	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 12:36	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 12:36	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 12:36	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 12:36	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 12:36	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 12:36	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 12:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 12:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 12:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 12:36	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 12:36	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 12:36	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 12:36	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 12:36	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 12:36	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 12:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 12:36	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-13 **Lab ID: 40179444002** Collected: 11/07/18 13:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 12:36	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 12:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 12:36	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 12:36	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 12:36	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 12:36	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 12:36	79-00-5	
Trichloroethene	0.42J	ug/L	1.0	0.26	1		11/12/18 12:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 12:36	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 12:36	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 12:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 12:36	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 12:36	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 12:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/12/18 12:36	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/12/18 12:36	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		11/12/18 12:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-12 **Lab ID: 40179444003** Collected: 11/07/18 13:20 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 15:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 15:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 15:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 15:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 15:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 15:36	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 15:36	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 15:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 15:36	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 15:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 15:36	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 15:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 15:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 15:36	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 15:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 15:36	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 15:36	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 15:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 15:36	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 15:36	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 15:36	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 15:36	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 15:36	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 15:36	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 15:36	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 15:36	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 15:36	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 15:36	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 15:36	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 15:36	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 15:36	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 15:36	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 15:36	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 15:36	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 15:36	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 15:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 15:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 15:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 15:36	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 15:36	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 15:36	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 15:36	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 15:36	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 15:36	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 15:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 15:36	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-12 **Lab ID: 40179444003** Collected: 11/07/18 13:20 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 15:36	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 15:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 15:36	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 15:36	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 15:36	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 15:36	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 15:36	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/12/18 15:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 15:36	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 15:36	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 15:36	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 15:36	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 15:36	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 15:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/12/18 15:36	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/12/18 15:36	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/12/18 15:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-14R **Lab ID: 40179444004** Collected: 11/07/18 14:10 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 19:12	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 19:12	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 19:12	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 19:12	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 19:12	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 19:12	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:12	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 19:12	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 19:12	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 19:12	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:12	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 19:12	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 19:12	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 19:12	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 19:12	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 19:12	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 19:12	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 19:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 19:12	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 19:12	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:12	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 19:12	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 19:12	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 19:12	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 19:12	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:12	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 19:12	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 19:12	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 19:12	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:12	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 19:12	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 19:12	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 19:12	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 19:12	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 19:12	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 19:12	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 19:12	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 19:12	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 19:12	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 19:12	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 19:12	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 19:12	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 19:12	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 19:12	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 19:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 19:12	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-14R **Lab ID: 40179444004** Collected: 11/07/18 14:10 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:12	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 19:12	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 19:12	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 19:12	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 19:12	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 19:12	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 19:12	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/12/18 19:12	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 19:12	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 19:12	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 19:12	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 19:12	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 19:12	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 19:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/12/18 19:12	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/12/18 19:12	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		11/12/18 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: PZ-14 **Lab ID: 40179444005** Collected: 11/07/18 14:15 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 19:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 19:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 19:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 19:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 19:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 19:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 19:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 19:34	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 19:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 19:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 19:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 19:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 19:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 19:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 19:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 19:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 19:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 19:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 19:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 19:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 19:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 19:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 19:34	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 19:34	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 19:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 19:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 19:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 19:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 19:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 19:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 19:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 19:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 19:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 19:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 19:34	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 19:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 19:34	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 19:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 19:34	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 19:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 19:34	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: PZ-14 **Lab ID: 40179444005** Collected: 11/07/18 14:15 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:34	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 19:34	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 19:34	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 19:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 19:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 19:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 19:34	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/12/18 19:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 19:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 19:34	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 19:34	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 19:34	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 19:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 19:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/12/18 19:34	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/12/18 19:34	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/12/18 19:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-15 **Lab ID: 40179444006** Collected: 11/07/18 14:55 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 19:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 19:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 19:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 19:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 19:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 19:57	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:57	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 19:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 19:57	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 19:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 19:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 19:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 19:57	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 19:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 19:57	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 19:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 19:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 19:57	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 19:57	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 19:57	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 19:57	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 19:57	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 19:57	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 19:57	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:57	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 19:57	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 19:57	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 19:57	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:57	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 19:57	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 19:57	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 19:57	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 19:57	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 19:57	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 19:57	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 19:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 19:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 19:57	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 19:57	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 19:57	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 19:57	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 19:57	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 19:57	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 19:57	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 19:57	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-15 **Lab ID: 40179444006** Collected: 11/07/18 14:55 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 19:57	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 19:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 19:57	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 19:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 19:57	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 19:57	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 19:57	79-00-5	
Trichloroethene	0.34J	ug/L	1.0	0.26	1		11/12/18 19:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 19:57	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 19:57	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 19:57	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 19:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 19:57	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 19:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/12/18 19:57	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/12/18 19:57	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		11/12/18 19:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-20 **Lab ID: 40179444007** Collected: 11/07/18 15:10 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<1.2	ug/L	5.0	1.2	5		11/12/18 23:18	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/12/18 23:18	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/12/18 23:18	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/12/18 23:18	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/12/18 23:18	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/12/18 23:18	74-83-9	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		11/12/18 23:18	104-51-8	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/12/18 23:18	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/12/18 23:18	98-06-6	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		11/12/18 23:18	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/12/18 23:18	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		11/12/18 23:18	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/12/18 23:18	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/12/18 23:18	74-87-3	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/12/18 23:18	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/12/18 23:18	106-43-4	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/12/18 23:18	96-12-8	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/12/18 23:18	124-48-1	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/12/18 23:18	106-93-4	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/12/18 23:18	74-95-3	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/12/18 23:18	95-50-1	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/12/18 23:18	541-73-1	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/12/18 23:18	106-46-7	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/12/18 23:18	75-71-8	
1,1-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/12/18 23:18	75-34-3	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/12/18 23:18	107-06-2	
1,1-Dichloroethene	1.9J	ug/L	5.0	1.2	5		11/12/18 23:18	75-35-4	
cis-1,2-Dichloroethene	800	ug/L	5.0	1.4	5		11/12/18 23:18	156-59-2	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		11/12/18 23:18	156-60-5	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/12/18 23:18	78-87-5	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/12/18 23:18	142-28-9	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/12/18 23:18	594-20-7	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/12/18 23:18	563-58-6	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/12/18 23:18	10061-01-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/12/18 23:18	10061-02-6	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/12/18 23:18	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		11/12/18 23:18	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		11/12/18 23:18	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		11/12/18 23:18	98-82-8	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		11/12/18 23:18	99-87-6	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/12/18 23:18	75-09-2	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/12/18 23:18	1634-04-4	
Naphthalene	<5.9	ug/L	25.0	5.9	5		11/12/18 23:18	91-20-3	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		11/12/18 23:18	103-65-1	
Styrene	<2.3	ug/L	7.8	2.3	5		11/12/18 23:18	100-42-5	
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/12/18 23:18	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-20 **Lab ID: 40179444007** Collected: 11/07/18 15:10 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/12/18 23:18	79-34-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		11/12/18 23:18	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		11/12/18 23:18	108-88-3	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		11/12/18 23:18	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/12/18 23:18	120-82-1	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		11/12/18 23:18	71-55-6	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/12/18 23:18	79-00-5	
Trichloroethene	<1.3	ug/L	5.0	1.3	5		11/12/18 23:18	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/12/18 23:18	75-69-4	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/12/18 23:18	96-18-4	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		11/12/18 23:18	95-63-6	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		11/12/18 23:18	108-67-8	
Vinyl chloride	132	ug/L	5.0	0.87	5		11/12/18 23:18	75-01-4	
Xylene (Total)	<7.5	ug/L	15.0	7.5	5		11/12/18 23:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		5		11/12/18 23:18	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		5		11/12/18 23:18	1868-53-7	
Toluene-d8 (S)	104	%	70-130		5		11/12/18 23:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-23 **Lab ID: 40179444008** Collected: 11/07/18 15:50 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<24.6	ug/L	100	24.6	100		11/12/18 23:41	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		11/12/18 23:41	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		11/12/18 23:41	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		11/12/18 23:41	75-27-4	
Bromoform	<397	ug/L	1320	397	100		11/12/18 23:41	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		11/12/18 23:41	74-83-9	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		11/12/18 23:41	104-51-8	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		11/12/18 23:41	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		11/12/18 23:41	98-06-6	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		11/12/18 23:41	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		11/12/18 23:41	108-90-7	
Chloroethane	<134	ug/L	500	134	100		11/12/18 23:41	75-00-3	
Chloroform	<127	ug/L	500	127	100		11/12/18 23:41	67-66-3	
Chloromethane	<219	ug/L	730	219	100		11/12/18 23:41	74-87-3	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		11/12/18 23:41	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		11/12/18 23:41	106-43-4	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		11/12/18 23:41	96-12-8	
Dibromochloromethane	<260	ug/L	867	260	100		11/12/18 23:41	124-48-1	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		11/12/18 23:41	106-93-4	
Dibromomethane	<93.7	ug/L	312	93.7	100		11/12/18 23:41	74-95-3	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		11/12/18 23:41	95-50-1	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		11/12/18 23:41	541-73-1	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		11/12/18 23:41	106-46-7	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		11/12/18 23:41	75-71-8	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		11/12/18 23:41	75-34-3	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		11/12/18 23:41	107-06-2	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		11/12/18 23:41	75-35-4	
cis-1,2-Dichloroethene	8930	ug/L	100	27.1	100		11/12/18 23:41	156-59-2	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		11/12/18 23:41	156-60-5	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		11/12/18 23:41	78-87-5	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		11/12/18 23:41	142-28-9	
2,2-Dichloropropane	<227	ug/L	755	227	100		11/12/18 23:41	594-20-7	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		11/12/18 23:41	563-58-6	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		11/12/18 23:41	10061-01-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		11/12/18 23:41	10061-02-6	
Diisopropyl ether	<189	ug/L	629	189	100		11/12/18 23:41	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		11/12/18 23:41	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		11/12/18 23:41	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		11/12/18 23:41	98-82-8	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		11/12/18 23:41	99-87-6	
Methylene Chloride	<58.1	ug/L	500	58.1	100		11/12/18 23:41	75-09-2	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		11/12/18 23:41	1634-04-4	
Naphthalene	<118	ug/L	500	118	100		11/12/18 23:41	91-20-3	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		11/12/18 23:41	103-65-1	
Styrene	<46.5	ug/L	155	46.5	100		11/12/18 23:41	100-42-5	
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		11/12/18 23:41	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-23 **Lab ID: 40179444008** Collected: 11/07/18 15:50 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		11/12/18 23:41	79-34-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		11/12/18 23:41	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		11/12/18 23:41	108-88-3	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		11/12/18 23:41	87-61-6	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/12/18 23:41	120-82-1	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		11/12/18 23:41	71-55-6	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		11/12/18 23:41	79-00-5	
Trichloroethene	114	ug/L	100	25.5	100		11/12/18 23:41	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		11/12/18 23:41	75-69-4	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		11/12/18 23:41	96-18-4	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		11/12/18 23:41	95-63-6	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		11/12/18 23:41	108-67-8	
Vinyl chloride	1160	ug/L	100	17.5	100		11/12/18 23:41	75-01-4	
Xylene (Total)	<150	ug/L	300	150	100		11/12/18 23:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		100		11/12/18 23:41	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		100		11/12/18 23:41	1868-53-7	
Toluene-d8 (S)	105	%	70-130		100		11/12/18 23:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: SMW-3 **Lab ID: 40179444009** Collected: 11/07/18 15:55 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 20:19	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 20:19	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 20:19	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 20:19	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 20:19	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 20:19	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 20:19	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 20:19	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 20:19	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 20:19	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 20:19	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 20:19	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 20:19	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 20:19	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 20:19	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 20:19	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 20:19	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 20:19	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 20:19	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 20:19	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 20:19	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 20:19	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 20:19	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 20:19	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 20:19	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 20:19	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 20:19	75-35-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/12/18 20:19	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 20:19	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 20:19	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 20:19	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 20:19	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 20:19	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 20:19	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 20:19	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 20:19	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 20:19	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 20:19	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 20:19	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 20:19	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 20:19	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 20:19	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 20:19	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 20:19	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 20:19	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 20:19	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: SMW-3 **Lab ID: 40179444009** Collected: 11/07/18 15:55 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 20:19	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 20:19	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 20:19	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 20:19	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 20:19	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 20:19	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 20:19	79-00-5	
Trichloroethene	0.50J	ug/L	1.0	0.26	1		11/12/18 20:19	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 20:19	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 20:19	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 20:19	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 20:19	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 20:19	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 20:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/12/18 20:19	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/12/18 20:19	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		11/12/18 20:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: TW-2 **Lab ID: 40179444010** Collected: 11/08/18 09:05 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 20:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 20:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 20:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 20:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 20:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 20:42	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 20:42	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 20:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 20:42	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 20:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 20:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 20:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 20:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 20:42	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 20:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 20:42	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 20:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 20:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 20:42	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 20:42	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 20:42	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 20:42	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 20:42	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 20:42	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 20:42	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 20:42	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 20:42	75-35-4	
cis-1,2-Dichloroethene	0.60J	ug/L	1.0	0.27	1		11/12/18 20:42	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 20:42	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 20:42	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 20:42	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 20:42	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 20:42	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 20:42	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 20:42	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 20:42	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 20:42	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 20:42	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 20:42	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 20:42	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 20:42	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 20:42	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 20:42	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 20:42	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 20:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 20:42	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: TW-2 **Lab ID: 40179444010** Collected: 11/08/18 09:05 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 20:42	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 20:42	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 20:42	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 20:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 20:42	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 20:42	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 20:42	79-00-5	
Trichloroethene	2.1	ug/L	1.0	0.26	1		11/12/18 20:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 20:42	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 20:42	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 20:42	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 20:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 20:42	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 20:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/12/18 20:42	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/12/18 20:42	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/12/18 20:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: TW-1 **Lab ID: 40179444011** Collected: 11/08/18 09:15 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 21:04	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 21:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 21:04	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 21:04	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 21:04	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 21:04	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:04	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 21:04	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 21:04	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 21:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 21:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 21:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 21:04	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 21:04	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 21:04	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 21:04	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 21:04	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 21:04	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 21:04	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:04	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 21:04	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 21:04	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 21:04	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 21:04	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:04	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 21:04	75-35-4	
cis-1,2-Dichloroethene	3.3	ug/L	1.0	0.27	1		11/12/18 21:04	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 21:04	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:04	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 21:04	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 21:04	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 21:04	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 21:04	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 21:04	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 21:04	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 21:04	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 21:04	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 21:04	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 21:04	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 21:04	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 21:04	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 21:04	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 21:04	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 21:04	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: TW-1 **Lab ID:** 40179444011 Collected: 11/08/18 09:15 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:04	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 21:04	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 21:04	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 21:04	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 21:04	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 21:04	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 21:04	79-00-5	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/12/18 21:04	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 21:04	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 21:04	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 21:04	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 21:04	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 21:04	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 21:04	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/12/18 21:04	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/12/18 21:04	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/12/18 21:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-25 **Lab ID: 40179444012** Collected: 11/08/18 10:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 21:26	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 21:26	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 21:26	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 21:26	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 21:26	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 21:26	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:26	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 21:26	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 21:26	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 21:26	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:26	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 21:26	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 21:26	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 21:26	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 21:26	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 21:26	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 21:26	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 21:26	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 21:26	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 21:26	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:26	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 21:26	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 21:26	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 21:26	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 21:26	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:26	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 21:26	75-35-4	
cis-1,2-Dichloroethene	38.6	ug/L	1.0	0.27	1		11/12/18 21:26	156-59-2	
trans-1,2-Dichloroethene	4.6	ug/L	3.6	1.1	1		11/12/18 21:26	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:26	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 21:26	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 21:26	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 21:26	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 21:26	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 21:26	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 21:26	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 21:26	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 21:26	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 21:26	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 21:26	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 21:26	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 21:26	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 21:26	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 21:26	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 21:26	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 21:26	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-25 **Lab ID: 40179444012** Collected: 11/08/18 10:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:26	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 21:26	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 21:26	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 21:26	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 21:26	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 21:26	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 21:26	79-00-5	
Trichloroethene	15.2	ug/L	1.0	0.26	1		11/12/18 21:26	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 21:26	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 21:26	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 21:26	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 21:26	108-67-8	
Vinyl chloride	23.2	ug/L	1.0	0.17	1		11/12/18 21:26	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 21:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		11/12/18 21:26	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/12/18 21:26	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/12/18 21:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: PZ-9 **Lab ID: 40179444013** Collected: 11/08/18 10:05 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<246	ug/L	1000	246	1000		11/12/18 13:43	71-43-2	
Bromobenzene	<241	ug/L	1000	241	1000		11/12/18 13:43	108-86-1	
Bromochloromethane	<362	ug/L	5000	362	1000		11/12/18 13:43	74-97-5	
Bromodichloromethane	<364	ug/L	1210	364	1000		11/12/18 13:43	75-27-4	
Bromoform	<3970	ug/L	13200	3970	1000		11/12/18 13:43	75-25-2	
Bromomethane	<971	ug/L	5000	971	1000		11/12/18 13:43	74-83-9	
n-Butylbenzene	<708	ug/L	2360	708	1000		11/12/18 13:43	104-51-8	
sec-Butylbenzene	<849	ug/L	5000	849	1000		11/12/18 13:43	135-98-8	
tert-Butylbenzene	<304	ug/L	1010	304	1000		11/12/18 13:43	98-06-6	
Carbon tetrachloride	<166	ug/L	1000	166	1000		11/12/18 13:43	56-23-5	
Chlorobenzene	<711	ug/L	2370	711	1000		11/12/18 13:43	108-90-7	
Chloroethane	<1340	ug/L	5000	1340	1000		11/12/18 13:43	75-00-3	
Chloroform	<1270	ug/L	5000	1270	1000		11/12/18 13:43	67-66-3	
Chloromethane	<2190	ug/L	7300	2190	1000		11/12/18 13:43	74-87-3	
2-Chlorotoluene	<926	ug/L	5000	926	1000		11/12/18 13:43	95-49-8	
4-Chlorotoluene	<756	ug/L	2520	756	1000		11/12/18 13:43	106-43-4	
1,2-Dibromo-3-chloropropane	<1760	ug/L	5880	1760	1000		11/12/18 13:43	96-12-8	
Dibromochloromethane	<2600	ug/L	8670	2600	1000		11/12/18 13:43	124-48-1	
1,2-Dibromoethane (EDB)	<829	ug/L	2760	829	1000		11/12/18 13:43	106-93-4	
Dibromomethane	<937	ug/L	3120	937	1000		11/12/18 13:43	74-95-3	
1,2-Dichlorobenzene	<705	ug/L	2350	705	1000		11/12/18 13:43	95-50-1	
1,3-Dichlorobenzene	<628	ug/L	2090	628	1000		11/12/18 13:43	541-73-1	
1,4-Dichlorobenzene	<944	ug/L	3150	944	1000		11/12/18 13:43	106-46-7	
Dichlorodifluoromethane	<500	ug/L	5000	500	1000		11/12/18 13:43	75-71-8	
1,1-Dichloroethane	<273	ug/L	1000	273	1000		11/12/18 13:43	75-34-3	
1,2-Dichloroethane	<280	ug/L	1000	280	1000		11/12/18 13:43	107-06-2	
1,1-Dichloroethene	247J	ug/L	1000	245	1000		11/12/18 13:43	75-35-4	
cis-1,2-Dichloroethene	89100	ug/L	1000	271	1000		11/12/18 13:43	156-59-2	
trans-1,2-Dichloroethene	<1090	ug/L	3640	1090	1000		11/12/18 13:43	156-60-5	
1,2-Dichloropropane	<283	ug/L	1000	283	1000		11/12/18 13:43	78-87-5	
1,3-Dichloropropane	<826	ug/L	2750	826	1000		11/12/18 13:43	142-28-9	
2,2-Dichloropropane	<2270	ug/L	7550	2270	1000		11/12/18 13:43	594-20-7	
1,1-Dichloropropene	<540	ug/L	1800	540	1000		11/12/18 13:43	563-58-6	
cis-1,3-Dichloropropene	<3630	ug/L	12100	3630	1000		11/12/18 13:43	10061-01-5	
trans-1,3-Dichloropropene	<4370	ug/L	14600	4370	1000		11/12/18 13:43	10061-02-6	
Diisopropyl ether	<1890	ug/L	6290	1890	1000		11/12/18 13:43	108-20-3	
Ethylbenzene	<218	ug/L	1000	218	1000		11/12/18 13:43	100-41-4	
Hexachloro-1,3-butadiene	<1180	ug/L	5000	1180	1000		11/12/18 13:43	87-68-3	
Isopropylbenzene (Cumene)	<393	ug/L	5000	393	1000		11/12/18 13:43	98-82-8	
p-Isopropyltoluene	<800	ug/L	2670	800	1000		11/12/18 13:43	99-87-6	
Methylene Chloride	<581	ug/L	5000	581	1000		11/12/18 13:43	75-09-2	
Methyl-tert-butyl ether	<1250	ug/L	4150	1250	1000		11/12/18 13:43	1634-04-4	
Naphthalene	<1180	ug/L	5000	1180	1000		11/12/18 13:43	91-20-3	
n-Propylbenzene	<811	ug/L	5000	811	1000		11/12/18 13:43	103-65-1	
Styrene	<465	ug/L	1550	465	1000		11/12/18 13:43	100-42-5	
1,1,1,2-Tetrachloroethane	<269	ug/L	1000	269	1000		11/12/18 13:43	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: PZ-9 **Lab ID: 40179444013** Collected: 11/08/18 10:05 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<275	ug/L	1000	275	1000		11/12/18 13:43	79-34-5	
Tetrachloroethene	<326	ug/L	1090	326	1000		11/12/18 13:43	127-18-4	
Toluene	<172	ug/L	5000	172	1000		11/12/18 13:43	108-88-3	
1,2,3-Trichlorobenzene	<626	ug/L	5000	626	1000		11/12/18 13:43	87-61-6	
1,2,4-Trichlorobenzene	<951	ug/L	5000	951	1000		11/12/18 13:43	120-82-1	
1,1,1-Trichloroethane	<245	ug/L	1000	245	1000		11/12/18 13:43	71-55-6	
1,1,2-Trichloroethane	<552	ug/L	5000	552	1000		11/12/18 13:43	79-00-5	
Trichloroethene	93600	ug/L	1000	255	1000		11/12/18 13:43	79-01-6	
Trichlorofluoromethane	<215	ug/L	1000	215	1000		11/12/18 13:43	75-69-4	
1,2,3-Trichloropropane	<591	ug/L	5000	591	1000		11/12/18 13:43	96-18-4	
1,2,4-Trimethylbenzene	<841	ug/L	2800	841	1000		11/12/18 13:43	95-63-6	
1,3,5-Trimethylbenzene	<873	ug/L	2910	873	1000		11/12/18 13:43	108-67-8	
Vinyl chloride	4390	ug/L	1000	175	1000		11/12/18 13:43	75-01-4	
Xylene (Total)	<1500	ug/L	3000	1500	1000		11/12/18 13:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1000		11/12/18 13:43	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1000		11/12/18 13:43	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1000		11/12/18 13:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-24 **Lab ID: 40179444014** Collected: 11/08/18 10:50 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 21:49	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 21:49	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 21:49	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 21:49	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 21:49	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 21:49	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:49	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 21:49	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 21:49	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 21:49	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:49	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 21:49	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 21:49	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 21:49	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 21:49	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 21:49	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 21:49	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 21:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 21:49	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 21:49	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 21:49	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 21:49	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 21:49	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 21:49	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 21:49	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:49	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 21:49	75-35-4	
cis-1,2-Dichloroethene	1.8	ug/L	1.0	0.27	1		11/12/18 21:49	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 21:49	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:49	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 21:49	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 21:49	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 21:49	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 21:49	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 21:49	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 21:49	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 21:49	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 21:49	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 21:49	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 21:49	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 21:49	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 21:49	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 21:49	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 21:49	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 21:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 21:49	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-24 **Lab ID: 40179444014** Collected: 11/08/18 10:50 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 21:49	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 21:49	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 21:49	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 21:49	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 21:49	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 21:49	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 21:49	79-00-5	
Trichloroethene	7.2	ug/L	1.0	0.26	1		11/12/18 21:49	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 21:49	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 21:49	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 21:49	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 21:49	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 21:49	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 21:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		11/12/18 21:49	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/12/18 21:49	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		11/12/18 21:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-26 **Lab ID: 40179444015** Collected: 11/08/18 11:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 22:11	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 22:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 22:11	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 22:11	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 22:11	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 22:11	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 22:11	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 22:11	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 22:11	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 22:11	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 22:11	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 22:11	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 22:11	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 22:11	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 22:11	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 22:11	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 22:11	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 22:11	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 22:11	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 22:11	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 22:11	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 22:11	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 22:11	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 22:11	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 22:11	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 22:11	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 22:11	75-35-4	
cis-1,2-Dichloroethene	57.5	ug/L	1.0	0.27	1		11/12/18 22:11	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 22:11	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 22:11	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 22:11	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 22:11	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 22:11	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 22:11	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 22:11	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 22:11	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 22:11	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 22:11	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 22:11	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 22:11	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 22:11	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 22:11	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 22:11	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 22:11	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 22:11	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 22:11	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-26 **Lab ID: 40179444015** Collected: 11/08/18 11:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 22:11	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 22:11	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 22:11	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 22:11	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 22:11	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 22:11	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 22:11	79-00-5	
Trichloroethene	1.6	ug/L	1.0	0.26	1		11/12/18 22:11	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 22:11	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 22:11	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 22:11	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 22:11	108-67-8	
Vinyl chloride	1.1	ug/L	1.0	0.17	1		11/12/18 22:11	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 22:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		11/12/18 22:11	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/12/18 22:11	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		11/12/18 22:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-21 **Lab ID: 40179444016** Collected: 11/08/18 11:30 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.49	ug/L	2.0	0.49	2		11/12/18 22:56	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		11/12/18 22:56	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		11/12/18 22:56	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		11/12/18 22:56	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		11/12/18 22:56	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		11/12/18 22:56	74-83-9	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		11/12/18 22:56	104-51-8	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		11/12/18 22:56	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		11/12/18 22:56	98-06-6	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		11/12/18 22:56	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		11/12/18 22:56	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		11/12/18 22:56	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		11/12/18 22:56	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		11/12/18 22:56	74-87-3	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		11/12/18 22:56	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		11/12/18 22:56	106-43-4	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		11/12/18 22:56	96-12-8	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		11/12/18 22:56	124-48-1	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		11/12/18 22:56	106-93-4	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		11/12/18 22:56	74-95-3	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		11/12/18 22:56	95-50-1	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		11/12/18 22:56	541-73-1	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		11/12/18 22:56	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		11/12/18 22:56	75-71-8	
1,1-Dichloroethane	<0.55	ug/L	2.0	0.55	2		11/12/18 22:56	75-34-3	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		11/12/18 22:56	107-06-2	
1,1-Dichloroethene	1.5J	ug/L	2.0	0.49	2		11/12/18 22:56	75-35-4	
cis-1,2-Dichloroethene	238	ug/L	2.0	0.54	2		11/12/18 22:56	156-59-2	
trans-1,2-Dichloroethene	3.0J	ug/L	7.3	2.2	2		11/12/18 22:56	156-60-5	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		11/12/18 22:56	78-87-5	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		11/12/18 22:56	142-28-9	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		11/12/18 22:56	594-20-7	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		11/12/18 22:56	563-58-6	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		11/12/18 22:56	10061-01-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		11/12/18 22:56	10061-02-6	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		11/12/18 22:56	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		11/12/18 22:56	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		11/12/18 22:56	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		11/12/18 22:56	98-82-8	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		11/12/18 22:56	99-87-6	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		11/12/18 22:56	75-09-2	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		11/12/18 22:56	1634-04-4	
Naphthalene	<2.4	ug/L	10.0	2.4	2		11/12/18 22:56	91-20-3	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		11/12/18 22:56	103-65-1	
Styrene	<0.93	ug/L	3.1	0.93	2		11/12/18 22:56	100-42-5	
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		11/12/18 22:56	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-21 **Lab ID: 40179444016** Collected: 11/08/18 11:30 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		11/12/18 22:56	79-34-5	
Tetrachloroethene	<0.65	ug/L	2.2	0.65	2		11/12/18 22:56	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		11/12/18 22:56	108-88-3	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		11/12/18 22:56	87-61-6	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		11/12/18 22:56	120-82-1	
1,1,1-Trichloroethane	<0.49	ug/L	2.0	0.49	2		11/12/18 22:56	71-55-6	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		11/12/18 22:56	79-00-5	
Trichloroethene	206	ug/L	2.0	0.51	2		11/12/18 22:56	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		11/12/18 22:56	75-69-4	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		11/12/18 22:56	96-18-4	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		11/12/18 22:56	95-63-6	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		11/12/18 22:56	108-67-8	
Vinyl chloride	52.2	ug/L	2.0	0.35	2		11/12/18 22:56	75-01-4	
Xylene (Total)	<3.0	ug/L	6.0	3.0	2		11/12/18 22:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		2		11/12/18 22:56	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		2		11/12/18 22:56	1868-53-7	
Toluene-d8 (S)	107	%	70-130		2		11/12/18 22:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: SMW-2 **Lab ID: 40179444017** Collected: 11/08/18 11:35 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/12/18 22:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/12/18 22:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/12/18 22:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/12/18 22:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/12/18 22:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/12/18 22:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 22:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/12/18 22:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/12/18 22:34	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/12/18 22:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 22:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/12/18 22:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/12/18 22:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/12/18 22:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/12/18 22:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/12/18 22:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/12/18 22:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/12/18 22:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/12/18 22:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/12/18 22:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/12/18 22:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/12/18 22:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/12/18 22:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/12/18 22:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 22:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 22:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/12/18 22:34	75-35-4	
cis-1,2-Dichloroethene	28.5	ug/L	1.0	0.27	1		11/12/18 22:34	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/12/18 22:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/12/18 22:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/12/18 22:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/12/18 22:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/12/18 22:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/12/18 22:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/12/18 22:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/12/18 22:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/12/18 22:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/12/18 22:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/12/18 22:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/12/18 22:34	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/12/18 22:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/12/18 22:34	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/12/18 22:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/12/18 22:34	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/12/18 22:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/12/18 22:34	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: SMW-2 **Lab ID: 40179444017** Collected: 11/08/18 11:35 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/12/18 22:34	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/12/18 22:34	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/12/18 22:34	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/12/18 22:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/12/18 22:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/12/18 22:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/12/18 22:34	79-00-5	
Trichloroethene	28.0	ug/L	1.0	0.26	1		11/12/18 22:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/12/18 22:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/12/18 22:34	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/12/18 22:34	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/12/18 22:34	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/12/18 22:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/12/18 22:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		11/12/18 22:34	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/12/18 22:34	1868-53-7	
Toluene-d8 (S)	108	%	70-130		1		11/12/18 22:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-22 **Lab ID: 40179444018** Collected: 11/08/18 13:55 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<98.6	ug/L	400	98.6	400		11/12/18 14:28	71-43-2	
Bromobenzene	<96.4	ug/L	400	96.4	400		11/12/18 14:28	108-86-1	
Bromochloromethane	<145	ug/L	2000	145	400		11/12/18 14:28	74-97-5	
Bromodichloromethane	<145	ug/L	485	145	400		11/12/18 14:28	75-27-4	
Bromoform	<1590	ug/L	5300	1590	400		11/12/18 14:28	75-25-2	
Bromomethane	<389	ug/L	2000	389	400		11/12/18 14:28	74-83-9	
n-Butylbenzene	<283	ug/L	944	283	400		11/12/18 14:28	104-51-8	
sec-Butylbenzene	<339	ug/L	2000	339	400		11/12/18 14:28	135-98-8	
tert-Butylbenzene	<122	ug/L	405	122	400		11/12/18 14:28	98-06-6	
Carbon tetrachloride	<66.3	ug/L	400	66.3	400		11/12/18 14:28	56-23-5	
Chlorobenzene	<284	ug/L	948	284	400		11/12/18 14:28	108-90-7	
Chloroethane	<537	ug/L	2000	537	400		11/12/18 14:28	75-00-3	
Chloroform	<510	ug/L	2000	510	400		11/12/18 14:28	67-66-3	
Chloromethane	<876	ug/L	2920	876	400		11/12/18 14:28	74-87-3	
2-Chlorotoluene	<370	ug/L	2000	370	400		11/12/18 14:28	95-49-8	
4-Chlorotoluene	<303	ug/L	1010	303	400		11/12/18 14:28	106-43-4	
1,2-Dibromo-3-chloropropane	<705	ug/L	2350	705	400		11/12/18 14:28	96-12-8	
Dibromochloromethane	<1040	ug/L	3470	1040	400		11/12/18 14:28	124-48-1	
1,2-Dibromoethane (EDB)	<332	ug/L	1110	332	400		11/12/18 14:28	106-93-4	
Dibromomethane	<375	ug/L	1250	375	400		11/12/18 14:28	74-95-3	
1,2-Dichlorobenzene	<282	ug/L	940	282	400		11/12/18 14:28	95-50-1	
1,3-Dichlorobenzene	<251	ug/L	837	251	400		11/12/18 14:28	541-73-1	
1,4-Dichlorobenzene	<377	ug/L	1260	377	400		11/12/18 14:28	106-46-7	
Dichlorodifluoromethane	<200	ug/L	2000	200	400		11/12/18 14:28	75-71-8	
1,1-Dichloroethane	<109	ug/L	400	109	400		11/12/18 14:28	75-34-3	
1,2-Dichloroethane	<112	ug/L	400	112	400		11/12/18 14:28	107-06-2	
1,1-Dichloroethene	<97.9	ug/L	400	97.9	400		11/12/18 14:28	75-35-4	
cis-1,2-Dichloroethene	19400	ug/L	400	108	400		11/12/18 14:28	156-59-2	
trans-1,2-Dichloroethene	<436	ug/L	1450	436	400		11/12/18 14:28	156-60-5	
1,2-Dichloropropane	<113	ug/L	400	113	400		11/12/18 14:28	78-87-5	
1,3-Dichloropropane	<330	ug/L	1100	330	400		11/12/18 14:28	142-28-9	
2,2-Dichloropropane	<906	ug/L	3020	906	400		11/12/18 14:28	594-20-7	
1,1-Dichloropropene	<216	ug/L	720	216	400		11/12/18 14:28	563-58-6	
cis-1,3-Dichloropropene	<1450	ug/L	4840	1450	400		11/12/18 14:28	10061-01-5	
trans-1,3-Dichloropropene	<1750	ug/L	5830	1750	400		11/12/18 14:28	10061-02-6	
Diisopropyl ether	<755	ug/L	2520	755	400		11/12/18 14:28	108-20-3	
Ethylbenzene	<87.3	ug/L	400	87.3	400		11/12/18 14:28	100-41-4	
Hexachloro-1,3-butadiene	<473	ug/L	2000	473	400		11/12/18 14:28	87-68-3	
Isopropylbenzene (Cumene)	<157	ug/L	2000	157	400		11/12/18 14:28	98-82-8	
p-Isopropyltoluene	<320	ug/L	1070	320	400		11/12/18 14:28	99-87-6	
Methylene Chloride	<232	ug/L	2000	232	400		11/12/18 14:28	75-09-2	
Methyl-tert-butyl ether	<498	ug/L	1660	498	400		11/12/18 14:28	1634-04-4	
Naphthalene	<470	ug/L	2000	470	400		11/12/18 14:28	91-20-3	
n-Propylbenzene	<324	ug/L	2000	324	400		11/12/18 14:28	103-65-1	
Styrene	<186	ug/L	621	186	400		11/12/18 14:28	100-42-5	
1,1,1,2-Tetrachloroethane	<108	ug/L	400	108	400		11/12/18 14:28	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-22 **Lab ID: 40179444018** Collected: 11/08/18 13:55 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<110	ug/L	400	110	400		11/12/18 14:28	79-34-5	
Tetrachloroethene	<131	ug/L	435	131	400		11/12/18 14:28	127-18-4	
Toluene	<68.8	ug/L	2000	68.8	400		11/12/18 14:28	108-88-3	
1,2,3-Trichlorobenzene	<250	ug/L	2000	250	400		11/12/18 14:28	87-61-6	
1,2,4-Trichlorobenzene	<381	ug/L	2000	381	400		11/12/18 14:28	120-82-1	
1,1,1-Trichloroethane	<97.9	ug/L	400	97.9	400		11/12/18 14:28	71-55-6	
1,1,2-Trichloroethane	<221	ug/L	2000	221	400		11/12/18 14:28	79-00-5	
Trichloroethene	<102	ug/L	400	102	400		11/12/18 14:28	79-01-6	
Trichlorofluoromethane	<86.0	ug/L	400	86.0	400		11/12/18 14:28	75-69-4	
1,2,3-Trichloropropane	<236	ug/L	2000	236	400		11/12/18 14:28	96-18-4	
1,2,4-Trimethylbenzene	<336	ug/L	1120	336	400		11/12/18 14:28	95-63-6	
1,3,5-Trimethylbenzene	<349	ug/L	1160	349	400		11/12/18 14:28	108-67-8	
Vinyl chloride	3540	ug/L	400	69.9	400		11/12/18 14:28	75-01-4	
Xylene (Total)	<600	ug/L	1200	600	400		11/12/18 14:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		400		11/12/18 14:28	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		400		11/12/18 14:28	1868-53-7	
Toluene-d8 (S)	104	%	70-130		400		11/12/18 14:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-27 **Lab ID: 40179444019** Collected: 11/08/18 14:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<49.3	ug/L	200	49.3	200		11/12/18 14:51	71-43-2	
Bromobenzene	<48.2	ug/L	200	48.2	200		11/12/18 14:51	108-86-1	
Bromochloromethane	<72.4	ug/L	1000	72.4	200		11/12/18 14:51	74-97-5	
Bromodichloromethane	<72.7	ug/L	242	72.7	200		11/12/18 14:51	75-27-4	
Bromoform	<794	ug/L	2650	794	200		11/12/18 14:51	75-25-2	
Bromomethane	<194	ug/L	1000	194	200		11/12/18 14:51	74-83-9	
n-Butylbenzene	<142	ug/L	472	142	200		11/12/18 14:51	104-51-8	
sec-Butylbenzene	<170	ug/L	1000	170	200		11/12/18 14:51	135-98-8	
tert-Butylbenzene	<60.8	ug/L	203	60.8	200		11/12/18 14:51	98-06-6	
Carbon tetrachloride	<33.2	ug/L	200	33.2	200		11/12/18 14:51	56-23-5	
Chlorobenzene	<142	ug/L	474	142	200		11/12/18 14:51	108-90-7	
Chloroethane	<268	ug/L	1000	268	200		11/12/18 14:51	75-00-3	
Chloroform	<255	ug/L	1000	255	200		11/12/18 14:51	67-66-3	
Chloromethane	<438	ug/L	1460	438	200		11/12/18 14:51	74-87-3	
2-Chlorotoluene	<185	ug/L	1000	185	200		11/12/18 14:51	95-49-8	
4-Chlorotoluene	<151	ug/L	504	151	200		11/12/18 14:51	106-43-4	
1,2-Dibromo-3-chloropropane	<353	ug/L	1180	353	200		11/12/18 14:51	96-12-8	
Dibromochloromethane	<520	ug/L	1730	520	200		11/12/18 14:51	124-48-1	
1,2-Dibromoethane (EDB)	<166	ug/L	553	166	200		11/12/18 14:51	106-93-4	
Dibromomethane	<187	ug/L	625	187	200		11/12/18 14:51	74-95-3	
1,2-Dichlorobenzene	<141	ug/L	470	141	200		11/12/18 14:51	95-50-1	
1,3-Dichlorobenzene	<126	ug/L	419	126	200		11/12/18 14:51	541-73-1	
1,4-Dichlorobenzene	<189	ug/L	629	189	200		11/12/18 14:51	106-46-7	
Dichlorodifluoromethane	<99.9	ug/L	1000	99.9	200		11/12/18 14:51	75-71-8	
1,1-Dichloroethane	<54.5	ug/L	200	54.5	200		11/12/18 14:51	75-34-3	
1,2-Dichloroethane	<56.0	ug/L	200	56.0	200		11/12/18 14:51	107-06-2	
1,1-Dichloroethene	<49.0	ug/L	200	49.0	200		11/12/18 14:51	75-35-4	
cis-1,2-Dichloroethene	12000	ug/L	200	54.2	200		11/12/18 14:51	156-59-2	
trans-1,2-Dichloroethene	<218	ug/L	727	218	200		11/12/18 14:51	156-60-5	
1,2-Dichloropropane	<56.6	ug/L	200	56.6	200		11/12/18 14:51	78-87-5	
1,3-Dichloropropane	<165	ug/L	551	165	200		11/12/18 14:51	142-28-9	
2,2-Dichloropropane	<453	ug/L	1510	453	200		11/12/18 14:51	594-20-7	
1,1-Dichloropropene	<108	ug/L	360	108	200		11/12/18 14:51	563-58-6	
cis-1,3-Dichloropropene	<726	ug/L	2420	726	200		11/12/18 14:51	10061-01-5	
trans-1,3-Dichloropropene	<874	ug/L	2910	874	200		11/12/18 14:51	10061-02-6	
Diisopropyl ether	<378	ug/L	1260	378	200		11/12/18 14:51	108-20-3	
Ethylbenzene	<43.6	ug/L	200	43.6	200		11/12/18 14:51	100-41-4	
Hexachloro-1,3-butadiene	<236	ug/L	1000	236	200		11/12/18 14:51	87-68-3	
Isopropylbenzene (Cumene)	<78.6	ug/L	1000	78.6	200		11/12/18 14:51	98-82-8	
p-Isopropyltoluene	<160	ug/L	533	160	200		11/12/18 14:51	99-87-6	
Methylene Chloride	<116	ug/L	1000	116	200		11/12/18 14:51	75-09-2	
Methyl-tert-butyl ether	<249	ug/L	831	249	200		11/12/18 14:51	1634-04-4	
Naphthalene	<235	ug/L	1000	235	200		11/12/18 14:51	91-20-3	
n-Propylbenzene	<162	ug/L	1000	162	200		11/12/18 14:51	103-65-1	
Styrene	<93.1	ug/L	310	93.1	200		11/12/18 14:51	100-42-5	
1,1,1,2-Tetrachloroethane	<53.8	ug/L	200	53.8	200		11/12/18 14:51	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-27 **Lab ID: 40179444019** Collected: 11/08/18 14:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<55.1	ug/L	200	55.1	200		11/12/18 14:51	79-34-5	
Tetrachloroethene	<65.3	ug/L	218	65.3	200		11/12/18 14:51	127-18-4	
Toluene	<34.4	ug/L	1000	34.4	200		11/12/18 14:51	108-88-3	
1,2,3-Trichlorobenzene	<125	ug/L	1000	125	200		11/12/18 14:51	87-61-6	
1,2,4-Trichlorobenzene	<190	ug/L	1000	190	200		11/12/18 14:51	120-82-1	
1,1,1-Trichloroethane	<49.0	ug/L	200	49.0	200		11/12/18 14:51	71-55-6	
1,1,2-Trichloroethane	<110	ug/L	1000	110	200		11/12/18 14:51	79-00-5	
Trichloroethene	132J	ug/L	200	51.0	200		11/12/18 14:51	79-01-6	
Trichlorofluoromethane	<43.0	ug/L	200	43.0	200		11/12/18 14:51	75-69-4	
1,2,3-Trichloropropane	<118	ug/L	1000	118	200		11/12/18 14:51	96-18-4	
1,2,4-Trimethylbenzene	<168	ug/L	560	168	200		11/12/18 14:51	95-63-6	
1,3,5-Trimethylbenzene	<175	ug/L	582	175	200		11/12/18 14:51	108-67-8	
Vinyl chloride	1260	ug/L	200	34.9	200		11/12/18 14:51	75-01-4	
Xylene (Total)	<300	ug/L	600	300	200		11/12/18 14:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		200		11/12/18 14:51	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		200		11/12/18 14:51	1868-53-7	
Toluene-d8 (S)	105	%	70-130		200		11/12/18 14:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-27D **Lab ID: 40179444020** Collected: 11/08/18 14:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<61.6	ug/L	250	61.6	250		11/12/18 15:13	71-43-2	
Bromobenzene	<60.3	ug/L	250	60.3	250		11/12/18 15:13	108-86-1	
Bromochloromethane	<90.5	ug/L	1250	90.5	250		11/12/18 15:13	74-97-5	
Bromodichloromethane	<90.9	ug/L	303	90.9	250		11/12/18 15:13	75-27-4	
Bromoform	<993	ug/L	3310	993	250		11/12/18 15:13	75-25-2	
Bromomethane	<243	ug/L	1250	243	250		11/12/18 15:13	74-83-9	
n-Butylbenzene	<177	ug/L	590	177	250		11/12/18 15:13	104-51-8	
sec-Butylbenzene	<212	ug/L	1250	212	250		11/12/18 15:13	135-98-8	
tert-Butylbenzene	<76.0	ug/L	253	76.0	250		11/12/18 15:13	98-06-6	
Carbon tetrachloride	<41.5	ug/L	250	41.5	250		11/12/18 15:13	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		11/12/18 15:13	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		11/12/18 15:13	75-00-3	
Chloroform	<318	ug/L	1250	318	250		11/12/18 15:13	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		11/12/18 15:13	74-87-3	
2-Chlorotoluene	<232	ug/L	1250	232	250		11/12/18 15:13	95-49-8	
4-Chlorotoluene	<189	ug/L	630	189	250		11/12/18 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	<441	ug/L	1470	441	250		11/12/18 15:13	96-12-8	
Dibromochloromethane	<650	ug/L	2170	650	250		11/12/18 15:13	124-48-1	
1,2-Dibromoethane (EDB)	<207	ug/L	691	207	250		11/12/18 15:13	106-93-4	
Dibromomethane	<234	ug/L	781	234	250		11/12/18 15:13	74-95-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		11/12/18 15:13	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		11/12/18 15:13	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		11/12/18 15:13	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		11/12/18 15:13	75-71-8	
1,1-Dichloroethane	<68.1	ug/L	250	68.1	250		11/12/18 15:13	75-34-3	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		11/12/18 15:13	107-06-2	
1,1-Dichloroethene	<61.2	ug/L	250	61.2	250		11/12/18 15:13	75-35-4	
cis-1,2-Dichloroethene	11900	ug/L	250	67.8	250		11/12/18 15:13	156-59-2	
trans-1,2-Dichloroethene	<273	ug/L	909	273	250		11/12/18 15:13	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		11/12/18 15:13	78-87-5	
1,3-Dichloropropane	<206	ug/L	688	206	250		11/12/18 15:13	142-28-9	
2,2-Dichloropropane	<566	ug/L	1890	566	250		11/12/18 15:13	594-20-7	
1,1-Dichloropropene	<135	ug/L	450	135	250		11/12/18 15:13	563-58-6	
cis-1,3-Dichloropropene	<907	ug/L	3020	907	250		11/12/18 15:13	10061-01-5	
trans-1,3-Dichloropropene	<1090	ug/L	3640	1090	250		11/12/18 15:13	10061-02-6	
Diisopropyl ether	<472	ug/L	1570	472	250		11/12/18 15:13	108-20-3	
Ethylbenzene	<54.5	ug/L	250	54.5	250		11/12/18 15:13	100-41-4	
Hexachloro-1,3-butadiene	<296	ug/L	1250	296	250		11/12/18 15:13	87-68-3	
Isopropylbenzene (Cumene)	<98.2	ug/L	1250	98.2	250		11/12/18 15:13	98-82-8	
p-Isopropyltoluene	<200	ug/L	667	200	250		11/12/18 15:13	99-87-6	
Methylene Chloride	<145	ug/L	1250	145	250		11/12/18 15:13	75-09-2	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		11/12/18 15:13	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		11/12/18 15:13	91-20-3	
n-Propylbenzene	<203	ug/L	1250	203	250		11/12/18 15:13	103-65-1	
Styrene	<116	ug/L	388	116	250		11/12/18 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		11/12/18 15:13	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-27D **Lab ID: 40179444020** Collected: 11/08/18 14:00 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		11/12/18 15:13	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		11/12/18 15:13	127-18-4	
Toluene	<43.0	ug/L	1250	43.0	250		11/12/18 15:13	108-88-3	
1,2,3-Trichlorobenzene	<156	ug/L	1250	156	250		11/12/18 15:13	87-61-6	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		11/12/18 15:13	120-82-1	
1,1,1-Trichloroethane	<61.2	ug/L	250	61.2	250		11/12/18 15:13	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		11/12/18 15:13	79-00-5	
Trichloroethene	139J	ug/L	250	63.8	250		11/12/18 15:13	79-01-6	
Trichlorofluoromethane	<53.7	ug/L	250	53.7	250		11/12/18 15:13	75-69-4	
1,2,3-Trichloropropane	<148	ug/L	1250	148	250		11/12/18 15:13	96-18-4	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		11/12/18 15:13	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		11/12/18 15:13	108-67-8	
Vinyl chloride	1290	ug/L	250	43.7	250		11/12/18 15:13	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		11/12/18 15:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		250		11/12/18 15:13	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		250		11/12/18 15:13	1868-53-7	
Toluene-d8 (S)	104	%	70-130		250		11/12/18 15:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-9R **Lab ID: 40179444021** Collected: 11/08/18 14:40 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<61.6	ug/L	250	61.6	250		11/14/18 12:30	71-43-2	
Bromobenzene	<60.3	ug/L	250	60.3	250		11/14/18 12:30	108-86-1	
Bromochloromethane	<90.5	ug/L	1250	90.5	250		11/14/18 12:30	74-97-5	
Bromodichloromethane	<90.9	ug/L	303	90.9	250		11/14/18 12:30	75-27-4	
Bromoform	<993	ug/L	3310	993	250		11/14/18 12:30	75-25-2	
Bromomethane	<243	ug/L	1250	243	250		11/14/18 12:30	74-83-9	
n-Butylbenzene	<177	ug/L	590	177	250		11/14/18 12:30	104-51-8	
sec-Butylbenzene	<212	ug/L	1250	212	250		11/14/18 12:30	135-98-8	
tert-Butylbenzene	<76.0	ug/L	253	76.0	250		11/14/18 12:30	98-06-6	
Carbon tetrachloride	<41.5	ug/L	250	41.5	250		11/14/18 12:30	56-23-5	
Chlorobenzene	<178	ug/L	592	178	250		11/14/18 12:30	108-90-7	
Chloroethane	<336	ug/L	1250	336	250		11/14/18 12:30	75-00-3	
Chloroform	<318	ug/L	1250	318	250		11/14/18 12:30	67-66-3	
Chloromethane	<547	ug/L	1820	547	250		11/14/18 12:30	74-87-3	
2-Chlorotoluene	<232	ug/L	1250	232	250		11/14/18 12:30	95-49-8	
4-Chlorotoluene	<189	ug/L	630	189	250		11/14/18 12:30	106-43-4	
1,2-Dibromo-3-chloropropane	<441	ug/L	1470	441	250		11/14/18 12:30	96-12-8	
Dibromochloromethane	<650	ug/L	2170	650	250		11/14/18 12:30	124-48-1	
1,2-Dibromoethane (EDB)	<207	ug/L	691	207	250		11/14/18 12:30	106-93-4	
Dibromomethane	<234	ug/L	781	234	250		11/14/18 12:30	74-95-3	
1,2-Dichlorobenzene	<176	ug/L	588	176	250		11/14/18 12:30	95-50-1	
1,3-Dichlorobenzene	<157	ug/L	523	157	250		11/14/18 12:30	541-73-1	
1,4-Dichlorobenzene	<236	ug/L	786	236	250		11/14/18 12:30	106-46-7	
Dichlorodifluoromethane	<125	ug/L	1250	125	250		11/14/18 12:30	75-71-8	
1,1-Dichloroethane	<68.1	ug/L	250	68.1	250		11/14/18 12:30	75-34-3	
1,2-Dichloroethane	<70.0	ug/L	250	70.0	250		11/14/18 12:30	107-06-2	
1,1-Dichloroethene	<61.2	ug/L	250	61.2	250		11/14/18 12:30	75-35-4	
cis-1,2-Dichloroethene	19100	ug/L	250	67.8	250		11/14/18 12:30	156-59-2	
trans-1,2-Dichloroethene	<273	ug/L	909	273	250		11/14/18 12:30	156-60-5	
1,2-Dichloropropane	<70.7	ug/L	250	70.7	250		11/14/18 12:30	78-87-5	
1,3-Dichloropropane	<206	ug/L	688	206	250		11/14/18 12:30	142-28-9	
2,2-Dichloropropane	<566	ug/L	1890	566	250		11/14/18 12:30	594-20-7	
1,1-Dichloropropene	<135	ug/L	450	135	250		11/14/18 12:30	563-58-6	
cis-1,3-Dichloropropene	<907	ug/L	3020	907	250		11/14/18 12:30	10061-01-5	
trans-1,3-Dichloropropene	<1090	ug/L	3640	1090	250		11/14/18 12:30	10061-02-6	
Diisopropyl ether	<472	ug/L	1570	472	250		11/14/18 12:30	108-20-3	
Ethylbenzene	<54.5	ug/L	250	54.5	250		11/14/18 12:30	100-41-4	
Hexachloro-1,3-butadiene	<296	ug/L	1250	296	250		11/14/18 12:30	87-68-3	
Isopropylbenzene (Cumene)	<98.2	ug/L	1250	98.2	250		11/14/18 12:30	98-82-8	
p-Isopropyltoluene	<200	ug/L	667	200	250		11/14/18 12:30	99-87-6	
Methylene Chloride	<145	ug/L	1250	145	250		11/14/18 12:30	75-09-2	
Methyl-tert-butyl ether	<311	ug/L	1040	311	250		11/14/18 12:30	1634-04-4	
Naphthalene	<294	ug/L	1250	294	250		11/14/18 12:30	91-20-3	
n-Propylbenzene	<203	ug/L	1250	203	250		11/14/18 12:30	103-65-1	
Styrene	<116	ug/L	388	116	250		11/14/18 12:30	100-42-5	
1,1,1,2-Tetrachloroethane	<67.3	ug/L	250	67.3	250		11/14/18 12:30	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-9R **Lab ID: 40179444021** Collected: 11/08/18 14:40 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<68.8	ug/L	250	68.8	250		11/14/18 12:30	79-34-5	
Tetrachloroethene	<81.6	ug/L	272	81.6	250		11/14/18 12:30	127-18-4	
Toluene	<43.0	ug/L	1250	43.0	250		11/14/18 12:30	108-88-3	
1,2,3-Trichlorobenzene	<156	ug/L	1250	156	250		11/14/18 12:30	87-61-6	
1,2,4-Trichlorobenzene	<238	ug/L	1250	238	250		11/14/18 12:30	120-82-1	
1,1,1-Trichloroethane	<61.2	ug/L	250	61.2	250		11/14/18 12:30	71-55-6	
1,1,2-Trichloroethane	<138	ug/L	1250	138	250		11/14/18 12:30	79-00-5	
Trichloroethene	490	ug/L	250	63.8	250		11/14/18 12:30	79-01-6	
Trichlorofluoromethane	<53.7	ug/L	250	53.7	250		11/14/18 12:30	75-69-4	
1,2,3-Trichloropropane	<148	ug/L	1250	148	250		11/14/18 12:30	96-18-4	
1,2,4-Trimethylbenzene	<210	ug/L	700	210	250		11/14/18 12:30	95-63-6	
1,3,5-Trimethylbenzene	<218	ug/L	728	218	250		11/14/18 12:30	108-67-8	
Vinyl chloride	1230	ug/L	250	43.7	250		11/14/18 12:30	75-01-4	
Xylene (Total)	<375	ug/L	750	375	250		11/14/18 12:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		250		11/14/18 12:30	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		250		11/14/18 12:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		250		11/14/18 12:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-19 **Lab ID: 40179444022** Collected: 11/08/18 14:45 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<2.5	ug/L	10.0	2.5	10		11/14/18 12:51	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		11/14/18 12:51	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		11/14/18 12:51	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		11/14/18 12:51	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		11/14/18 12:51	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		11/14/18 12:51	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		11/14/18 12:51	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		11/14/18 12:51	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		11/14/18 12:51	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		11/14/18 12:51	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		11/14/18 12:51	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		11/14/18 12:51	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		11/14/18 12:51	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		11/14/18 12:51	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		11/14/18 12:51	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		11/14/18 12:51	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		11/14/18 12:51	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		11/14/18 12:51	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		11/14/18 12:51	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		11/14/18 12:51	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		11/14/18 12:51	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		11/14/18 12:51	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		11/14/18 12:51	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		11/14/18 12:51	75-71-8	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		11/14/18 12:51	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		11/14/18 12:51	107-06-2	
1,1-Dichloroethene	4.7J	ug/L	10.0	2.4	10		11/14/18 12:51	75-35-4	
cis-1,2-Dichloroethene	401	ug/L	10.0	2.7	10		11/14/18 12:51	156-59-2	
trans-1,2-Dichloroethene	15.3J	ug/L	36.4	10.9	10		11/14/18 12:51	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		11/14/18 12:51	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		11/14/18 12:51	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		11/14/18 12:51	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		11/14/18 12:51	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		11/14/18 12:51	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		11/14/18 12:51	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		11/14/18 12:51	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		11/14/18 12:51	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		11/14/18 12:51	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		11/14/18 12:51	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		11/14/18 12:51	99-87-6	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		11/14/18 12:51	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		11/14/18 12:51	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		11/14/18 12:51	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		11/14/18 12:51	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		11/14/18 12:51	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		11/14/18 12:51	630-20-6	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-19 **Lab ID: 40179444022** Collected: 11/08/18 14:45 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		11/14/18 12:51	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		11/14/18 12:51	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		11/14/18 12:51	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		11/14/18 12:51	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		11/14/18 12:51	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		11/14/18 12:51	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		11/14/18 12:51	79-00-5	
Trichloroethene	1270	ug/L	10.0	2.6	10		11/14/18 12:51	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		11/14/18 12:51	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		11/14/18 12:51	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		11/14/18 12:51	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		11/14/18 12:51	108-67-8	
Vinyl chloride	22.1	ug/L	10.0	1.7	10		11/14/18 12:51	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		11/14/18 12:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		10		11/14/18 12:51	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		11/14/18 12:51	1868-53-7	
Toluene-d8 (S)	100	%	70-130		10		11/14/18 12:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-19D **Lab ID: 40179444023** Collected: 11/08/18 14:45 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<2.5	ug/L	10.0	2.5	10		11/14/18 13:13	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		11/14/18 13:13	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		11/14/18 13:13	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		11/14/18 13:13	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		11/14/18 13:13	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		11/14/18 13:13	74-83-9	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		11/14/18 13:13	104-51-8	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		11/14/18 13:13	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		11/14/18 13:13	98-06-6	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		11/14/18 13:13	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		11/14/18 13:13	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		11/14/18 13:13	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		11/14/18 13:13	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		11/14/18 13:13	74-87-3	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		11/14/18 13:13	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		11/14/18 13:13	106-43-4	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		11/14/18 13:13	96-12-8	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		11/14/18 13:13	124-48-1	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		11/14/18 13:13	106-93-4	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		11/14/18 13:13	74-95-3	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		11/14/18 13:13	95-50-1	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		11/14/18 13:13	541-73-1	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		11/14/18 13:13	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		11/14/18 13:13	75-71-8	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		11/14/18 13:13	75-34-3	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		11/14/18 13:13	107-06-2	
1,1-Dichloroethene	4.6J	ug/L	10.0	2.4	10		11/14/18 13:13	75-35-4	
cis-1,2-Dichloroethene	372	ug/L	10.0	2.7	10		11/14/18 13:13	156-59-2	
trans-1,2-Dichloroethene	14.2J	ug/L	36.4	10.9	10		11/14/18 13:13	156-60-5	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		11/14/18 13:13	78-87-5	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		11/14/18 13:13	142-28-9	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		11/14/18 13:13	594-20-7	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		11/14/18 13:13	563-58-6	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		11/14/18 13:13	10061-01-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		11/14/18 13:13	10061-02-6	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		11/14/18 13:13	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		11/14/18 13:13	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		11/14/18 13:13	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		11/14/18 13:13	98-82-8	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		11/14/18 13:13	99-87-6	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		11/14/18 13:13	75-09-2	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		11/14/18 13:13	1634-04-4	
Naphthalene	<11.8	ug/L	50.0	11.8	10		11/14/18 13:13	91-20-3	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		11/14/18 13:13	103-65-1	
Styrene	<4.7	ug/L	15.5	4.7	10		11/14/18 13:13	100-42-5	
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		11/14/18 13:13	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: MW-19D **Lab ID: 40179444023** Collected: 11/08/18 14:45 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		11/14/18 13:13	79-34-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		11/14/18 13:13	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		11/14/18 13:13	108-88-3	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		11/14/18 13:13	87-61-6	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		11/14/18 13:13	120-82-1	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		11/14/18 13:13	71-55-6	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		11/14/18 13:13	79-00-5	
Trichloroethene	1180	ug/L	10.0	2.6	10		11/14/18 13:13	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		11/14/18 13:13	75-69-4	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		11/14/18 13:13	96-18-4	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		11/14/18 13:13	95-63-6	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		11/14/18 13:13	108-67-8	
Vinyl chloride	20.4	ug/L	10.0	1.7	10		11/14/18 13:13	75-01-4	
Xylene (Total)	<15.0	ug/L	30.0	15.0	10		11/14/18 13:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		10		11/14/18 13:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		10		11/14/18 13:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		11/14/18 13:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: PZ-9B **Lab ID: 40179444024** Collected: 11/08/18 15:20 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.25	ug/L	1.0	0.25	1		11/14/18 13:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/14/18 13:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/14/18 13:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/14/18 13:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/14/18 13:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/14/18 13:34	74-83-9	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 13:34	104-51-8	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/14/18 13:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/14/18 13:34	98-06-6	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/14/18 13:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 13:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/14/18 13:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/14/18 13:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/14/18 13:34	74-87-3	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/14/18 13:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/14/18 13:34	106-43-4	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/14/18 13:34	96-12-8	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/14/18 13:34	124-48-1	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/14/18 13:34	106-93-4	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/14/18 13:34	74-95-3	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/14/18 13:34	95-50-1	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/14/18 13:34	541-73-1	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/14/18 13:34	106-46-7	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/14/18 13:34	75-71-8	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 13:34	75-34-3	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 13:34	107-06-2	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/14/18 13:34	75-35-4	
cis-1,2-Dichloroethene	7.7	ug/L	1.0	0.27	1		11/14/18 13:34	156-59-2	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/14/18 13:34	156-60-5	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/14/18 13:34	78-87-5	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/14/18 13:34	142-28-9	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/14/18 13:34	594-20-7	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/14/18 13:34	563-58-6	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/14/18 13:34	10061-01-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/14/18 13:34	10061-02-6	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/14/18 13:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/14/18 13:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/14/18 13:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/14/18 13:34	98-82-8	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/14/18 13:34	99-87-6	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/14/18 13:34	75-09-2	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/14/18 13:34	1634-04-4	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/14/18 13:34	91-20-3	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/14/18 13:34	103-65-1	
Styrene	<0.47	ug/L	1.6	0.47	1		11/14/18 13:34	100-42-5	
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/14/18 13:34	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Sample: PZ-9B **Lab ID: 40179444024** Collected: 11/08/18 15:20 Received: 11/10/18 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/14/18 13:34	79-34-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/14/18 13:34	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/14/18 13:34	108-88-3	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/14/18 13:34	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/14/18 13:34	120-82-1	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/14/18 13:34	71-55-6	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/14/18 13:34	79-00-5	
Trichloroethene	22.9	ug/L	1.0	0.26	1		11/14/18 13:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/14/18 13:34	75-69-4	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/14/18 13:34	96-18-4	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/14/18 13:34	95-63-6	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/14/18 13:34	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/14/18 13:34	75-01-4	
Xylene (Total)	<1.5	ug/L	3.0	1.5	1		11/14/18 13:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/14/18 13:34	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/14/18 13:34	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/14/18 13:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

QC Batch: 306186 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40179444001, 40179444002, 40179444003, 40179444004, 40179444005, 40179444006, 40179444007,
 40179444008, 40179444009, 40179444010, 40179444011, 40179444012, 40179444013, 40179444014,
 40179444015, 40179444016, 40179444017, 40179444018, 40179444019, 40179444020

METHOD BLANK: 1790848 Matrix: Water
 Associated Lab Samples: 40179444001, 40179444002, 40179444003, 40179444004, 40179444005, 40179444006, 40179444007,
 40179444008, 40179444009, 40179444010, 40179444011, 40179444012, 40179444013, 40179444014,
 40179444015, 40179444016, 40179444017, 40179444018, 40179444019, 40179444020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/12/18 08:52	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/12/18 08:52	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/12/18 08:52	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/12/18 08:52	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/12/18 08:52	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/12/18 08:52	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/12/18 08:52	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/12/18 08:52	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/12/18 08:52	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/12/18 08:52	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/12/18 08:52	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/12/18 08:52	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/12/18 08:52	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/12/18 08:52	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/12/18 08:52	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/12/18 08:52	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/12/18 08:52	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/12/18 08:52	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/12/18 08:52	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/12/18 08:52	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/12/18 08:52	
2-Chlorotoluene	ug/L	<0.93	5.0	11/12/18 08:52	
4-Chlorotoluene	ug/L	<0.76	2.5	11/12/18 08:52	
Benzene	ug/L	<0.25	1.0	11/12/18 08:52	
Bromobenzene	ug/L	<0.24	1.0	11/12/18 08:52	
Bromochloromethane	ug/L	<0.36	5.0	11/12/18 08:52	
Bromodichloromethane	ug/L	<0.36	1.2	11/12/18 08:52	
Bromoform	ug/L	<4.0	13.2	11/12/18 08:52	
Bromomethane	ug/L	<0.97	5.0	11/12/18 08:52	
Carbon tetrachloride	ug/L	<0.17	1.0	11/12/18 08:52	
Chlorobenzene	ug/L	<0.71	2.4	11/12/18 08:52	
Chloroethane	ug/L	<1.3	5.0	11/12/18 08:52	
Chloroform	ug/L	<1.3	5.0	11/12/18 08:52	
Chloromethane	ug/L	<2.2	7.3	11/12/18 08:52	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/12/18 08:52	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/12/18 08:52	
Dibromochloromethane	ug/L	<2.6	8.7	11/12/18 08:52	
Dibromomethane	ug/L	<0.94	3.1	11/12/18 08:52	

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

METHOD BLANK: 1790848

Matrix: Water

Associated Lab Samples: 40179444001, 40179444002, 40179444003, 40179444004, 40179444005, 40179444006, 40179444007, 40179444008, 40179444009, 40179444010, 40179444011, 40179444012, 40179444013, 40179444014, 40179444015, 40179444016, 40179444017, 40179444018, 40179444019, 40179444020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/12/18 08:52	
Diisopropyl ether	ug/L	<1.9	6.3	11/12/18 08:52	
Ethylbenzene	ug/L	<0.22	1.0	11/12/18 08:52	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/12/18 08:52	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/12/18 08:52	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/12/18 08:52	
Methylene Chloride	ug/L	<0.58	5.0	11/12/18 08:52	
n-Butylbenzene	ug/L	<0.71	2.4	11/12/18 08:52	
n-Propylbenzene	ug/L	<0.81	5.0	11/12/18 08:52	
Naphthalene	ug/L	<1.2	5.0	11/12/18 08:52	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/12/18 08:52	
sec-Butylbenzene	ug/L	<0.85	5.0	11/12/18 08:52	
Styrene	ug/L	<0.47	1.6	11/12/18 08:52	
tert-Butylbenzene	ug/L	<0.30	1.0	11/12/18 08:52	
Tetrachloroethene	ug/L	<0.33	1.1	11/12/18 08:52	
Toluene	ug/L	<0.17	5.0	11/12/18 08:52	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/12/18 08:52	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/12/18 08:52	
Trichloroethene	ug/L	<0.26	1.0	11/12/18 08:52	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/12/18 08:52	
Vinyl chloride	ug/L	<0.17	1.0	11/12/18 08:52	
Xylene (Total)	ug/L	<1.5	3.0	11/12/18 08:52	
4-Bromofluorobenzene (S)	%	100	70-130	11/12/18 08:52	
Dibromofluoromethane (S)	%	96	70-130	11/12/18 08:52	
Toluene-d8 (S)	%	108	70-130	11/12/18 08:52	

LABORATORY CONTROL SAMPLE: 1790849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.1	102	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	47.4	95	67-130	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	43.2	86	70-134	
1,1-Dichloroethene	ug/L	50	41.4	83	75-132	
1,2,4-Trichlorobenzene	ug/L	50	49.7	99	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.3	105	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.0	98	70-130	
1,2-Dichlorobenzene	ug/L	50	46.7	93	70-130	
1,2-Dichloroethane	ug/L	50	49.7	99	73-134	
1,2-Dichloropropane	ug/L	50	54.6	109	79-128	
1,3-Dichlorobenzene	ug/L	50	45.9	92	70-130	
1,4-Dichlorobenzene	ug/L	50	47.2	94	70-130	

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

LABORATORY CONTROL SAMPLE: 1790849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	43.1	86	69-137	
Bromodichloromethane	ug/L	50	57.5	115	70-130	
Bromoform	ug/L	50	57.5	115	64-133	
Bromomethane	ug/L	50	36.4	73	29-123	
Carbon tetrachloride	ug/L	50	51.0	102	73-142	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	34.5	69	59-133	
Chloroform	ug/L	50	44.6	89	80-129	
Chloromethane	ug/L	50	30.9	62	27-125	
cis-1,2-Dichloroethene	ug/L	50	43.3	87	70-134	
cis-1,3-Dichloropropene	ug/L	50	51.4	103	70-130	
Dibromochloromethane	ug/L	50	52.4	105	70-130	
Dichlorodifluoromethane	ug/L	50	32.1	64	12-127	
Ethylbenzene	ug/L	50	56.4	113	86-127	
Isopropylbenzene (Cumene)	ug/L	50	55.6	111	70-130	
Methyl-tert-butyl ether	ug/L	50	39.9	80	65-136	
Methylene Chloride	ug/L	50	40.3	81	72-133	
Styrene	ug/L	50	57.2	114	70-130	
Tetrachloroethene	ug/L	50	54.9	110	70-130	
Toluene	ug/L	50	52.9	106	84-124	
trans-1,2-Dichloroethene	ug/L	50	42.4	85	70-133	
trans-1,3-Dichloropropene	ug/L	50	50.5	101	67-130	
Trichloroethene	ug/L	50	54.7	109	70-130	
Trichlorofluoromethane	ug/L	50	45.7	91	69-147	
Vinyl chloride	ug/L	50	34.3	69	48-134	
Xylene (Total)	ug/L	150	165	110	70-130	
4-Bromofluorobenzene (S)	%			116	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1790856 1790857

Parameter	Units	40179444002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	53.8	55.4	108	111	70-136	3	20		
1,1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50.0	50.8	100	102	67-133	2	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.8	54.2	104	108	70-130	5	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	46.1	47.7	92	95	70-139	3	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	44.1	45.8	88	92	72-137	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.3	54.4	106	108	68-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	52.7	55.5	105	111	60-130	5	21		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.7	53.5	101	107	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.7	50.7	99	101	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	52.7	53.3	105	107	71-137	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Parameter	Units	40179444002		1790856		1790857		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
1,2-Dichloropropane	ug/L	<0.28	50	50	55.2	59.3	110	119	78-130	7	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.4	50.1	96	100	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.3	51.4	101	103	70-130	2	20		
Benzene	ug/L	<0.25	50	50	46.0	47.3	92	95	66-143	3	20		
Bromodichloromethane	ug/L	<0.36	50	50	58.5	61.0	117	122	70-130	4	20		
Bromoform	ug/L	<4.0	50	50	59.3	62.4	119	125	64-134	5	20		
Bromomethane	ug/L	<0.97	50	50	41.6	42.2	83	84	29-136	2	25		
Carbon tetrachloride	ug/L	<0.17	50	50	53.5	56.0	107	112	73-142	5	20		
Chlorobenzene	ug/L	<0.71	50	50	52.6	54.6	105	109	70-130	4	20		
Chloroethane	ug/L	<1.3	50	50	38.7	42.1	77	84	58-138	8	20		
Chloroform	ug/L	<1.3	50	50	46.7	48.1	93	96	80-131	3	20		
Chloromethane	ug/L	<2.2	50	50	32.7	34.1	65	68	24-125	4	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	45.2	46.8	90	94	68-137	3	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	54.1	56.3	108	113	70-130	4	20		
Dibromochloromethane	ug/L	<2.6	50	50	54.2	56.2	108	112	70-131	4	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	32.1	32.7	64	65	10-127	2	20		
Ethylbenzene	ug/L	<0.22	50	50	58.7	61.7	117	123	81-136	5	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	58.6	61.3	117	123	70-132	5	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	41.7	43.4	83	87	58-142	4	23		
Methylene Chloride	ug/L	<0.58	50	50	42.1	43.6	84	87	69-137	3	20		
Styrene	ug/L	<0.47	50	50	59.8	62.0	120	124	70-130	4	20		
Tetrachloroethene	ug/L	<0.33	50	50	58.3	61.2	117	122	70-132	5	20		
Toluene	ug/L	<0.17	50	50	54.8	57.9	110	116	81-130	5	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	44.2	46.6	88	93	70-136	5	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	53.8	56.0	108	112	67-130	4	20		
Trichloroethene	ug/L	0.42J	50	50	57.1	58.7	113	117	70-131	3	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	47.3	48.6	95	97	66-150	3	20		
Vinyl chloride	ug/L	<0.17	50	50	36.3	38.2	73	76	46-134	5	20		
Xylene (Total)	ug/L	<1.5	150	150	171	178	114	119	70-134	4	20		
4-Bromofluorobenzene (S)	%						114	116	70-130				
Dibromofluoromethane (S)	%						96	96	70-130				
Toluene-d8 (S)	%						106	108	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI
Pace Project No.: 40179444

QC Batch: 306187 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40179444021, 40179444022, 40179444023, 40179444024

METHOD BLANK: 1790850 Matrix: Water
Associated Lab Samples: 40179444021, 40179444022, 40179444023, 40179444024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/14/18 07:30	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/14/18 07:30	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/14/18 07:30	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/14/18 07:30	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/14/18 07:30	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/14/18 07:30	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/14/18 07:30	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/14/18 07:30	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/14/18 07:30	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/14/18 07:30	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/14/18 07:30	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/14/18 07:30	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/14/18 07:30	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/14/18 07:30	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/14/18 07:30	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/14/18 07:30	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/14/18 07:30	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/14/18 07:30	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/14/18 07:30	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/14/18 07:30	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/14/18 07:30	
2-Chlorotoluene	ug/L	<0.93	5.0	11/14/18 07:30	
4-Chlorotoluene	ug/L	<0.76	2.5	11/14/18 07:30	
Benzene	ug/L	<0.25	1.0	11/14/18 07:30	
Bromobenzene	ug/L	<0.24	1.0	11/14/18 07:30	
Bromochloromethane	ug/L	<0.36	5.0	11/14/18 07:30	
Bromodichloromethane	ug/L	<0.36	1.2	11/14/18 07:30	
Bromoform	ug/L	<4.0	13.2	11/14/18 07:30	
Bromomethane	ug/L	<0.97	5.0	11/14/18 07:30	
Carbon tetrachloride	ug/L	<0.17	1.0	11/14/18 07:30	
Chlorobenzene	ug/L	<0.71	2.4	11/14/18 07:30	
Chloroethane	ug/L	<1.3	5.0	11/14/18 07:30	
Chloroform	ug/L	<1.3	5.0	11/14/18 07:30	
Chloromethane	ug/L	<2.2	7.3	11/14/18 07:30	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/14/18 07:30	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/14/18 07:30	
Dibromochloromethane	ug/L	<2.6	8.7	11/14/18 07:30	
Dibromomethane	ug/L	<0.94	3.1	11/14/18 07:30	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/14/18 07:30	
Diisopropyl ether	ug/L	<1.9	6.3	11/14/18 07:30	
Ethylbenzene	ug/L	<0.22	1.0	11/14/18 07:30	

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

METHOD BLANK: 1790850

Matrix: Water

Associated Lab Samples: 40179444021, 40179444022, 40179444023, 40179444024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/14/18 07:30	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/14/18 07:30	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/14/18 07:30	
Methylene Chloride	ug/L	<0.58	5.0	11/14/18 07:30	
n-Butylbenzene	ug/L	<0.71	2.4	11/14/18 07:30	
n-Propylbenzene	ug/L	<0.81	5.0	11/14/18 07:30	
Naphthalene	ug/L	<1.2	5.0	11/14/18 07:30	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/14/18 07:30	
sec-Butylbenzene	ug/L	<0.85	5.0	11/14/18 07:30	
Styrene	ug/L	<0.47	1.6	11/14/18 07:30	
tert-Butylbenzene	ug/L	<0.30	1.0	11/14/18 07:30	
Tetrachloroethene	ug/L	<0.33	1.1	11/14/18 07:30	
Toluene	ug/L	<0.17	5.0	11/14/18 07:30	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/14/18 07:30	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/14/18 07:30	
Trichloroethene	ug/L	<0.26	1.0	11/14/18 07:30	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/14/18 07:30	
Vinyl chloride	ug/L	<0.17	1.0	11/14/18 07:30	
Xylene (Total)	ug/L	<1.5	3.0	11/14/18 07:30	
4-Bromofluorobenzene (S)	%	94	70-130	11/14/18 07:30	
Dibromofluoromethane (S)	%	97	70-130	11/14/18 07:30	
Toluene-d8 (S)	%	100	70-130	11/14/18 07:30	

LABORATORY CONTROL SAMPLE: 1790851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.3	107	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	52.5	105	67-130	
1,1,2-Trichloroethane	ug/L	50	52.9	106	70-130	
1,1-Dichloroethane	ug/L	50	53.6	107	70-134	
1,1-Dichloroethene	ug/L	50	48.1	96	75-132	
1,2,4-Trichlorobenzene	ug/L	50	56.5	113	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.7	89	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	52.8	106	70-130	
1,2-Dichlorobenzene	ug/L	50	56.0	112	70-130	
1,2-Dichloroethane	ug/L	50	52.0	104	73-134	
1,2-Dichloropropane	ug/L	50	50.4	101	79-128	
1,3-Dichlorobenzene	ug/L	50	55.5	111	70-130	
1,4-Dichlorobenzene	ug/L	50	55.7	111	70-130	
Benzene	ug/L	50	52.5	105	69-137	
Bromodichloromethane	ug/L	50	53.4	107	70-130	
Bromoform	ug/L	50	47.4	95	64-133	
Bromomethane	ug/L	50	26.5	53	29-123	
Carbon tetrachloride	ug/L	50	48.5	97	73-142	

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

LABORATORY CONTROL SAMPLE: 1790851

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroethane	ug/L	50	42.9	86	59-133	
Chloroform	ug/L	50	51.7	103	80-129	
Chloromethane	ug/L	50	35.9	72	27-125	
cis-1,2-Dichloroethene	ug/L	50	52.7	105	70-134	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Dibromochloromethane	ug/L	50	48.6	97	70-130	
Dichlorodifluoromethane	ug/L	50	35.4	71	12-127	
Ethylbenzene	ug/L	50	56.8	114	86-127	
Isopropylbenzene (Cumene)	ug/L	50	58.3	117	70-130	
Methyl-tert-butyl ether	ug/L	50	50.3	101	65-136	
Methylene Chloride	ug/L	50	48.4	97	72-133	
Styrene	ug/L	50	52.8	106	70-130	
Tetrachloroethene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	54.0	108	84-124	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	70-133	
trans-1,3-Dichloropropene	ug/L	50	46.8	94	67-130	
Trichloroethene	ug/L	50	53.8	108	70-130	
Trichlorofluoromethane	ug/L	50	48.0	96	69-147	
Vinyl chloride	ug/L	50	38.5	77	48-134	
Xylene (Total)	ug/L	150	172	114	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1792494 1792495

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40179393002	Spike Conc.	MSD Spike Conc.	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.4	53.3	103	107	70-136	4	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50.0	50.3	100	101	67-133	1	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.0	51.2	100	102	70-130	2	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	51.7	54.2	103	108	70-139	5	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	48.0	50.0	96	100	72-137	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.7	54.8	107	110	68-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	43.0	43.9	86	88	60-130	2	21		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	51.1	52.8	102	106	70-130	3	20		
1,2-Dichlorobenzene	ug/L	4.6	50	50	58.5	59.5	108	110	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	50.9	52.9	102	106	71-137	4	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	48.5	49.5	97	99	78-130	2	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	53.4	54.1	107	108	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.3	53.6	105	107	70-130	2	20		
Benzene	ug/L	<0.25	50	50	50.7	53.0	101	106	66-143	4	20		
Bromodichloromethane	ug/L	<0.36	50	50	50.8	52.3	102	105	70-130	3	20		

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QUALITY CONTROL DATA

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Parameter	Units	40179393002		1792494		1792495		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Bromoform	ug/L	<4.0	50	50	44.9	46.2	90	92	64-134	3	20		
Bromomethane	ug/L	<0.97	50	50	27.6	30.5	55	61	29-136	10	25		
Carbon tetrachloride	ug/L	<0.17	50	50	47.7	49.5	95	99	73-142	4	20		
Chlorobenzene	ug/L	<0.71	50	50	51.7	52.8	103	106	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	41.5	44.7	83	89	58-138	7	20		
Chloroform	ug/L	<1.3	50	50	50.0	52.6	98	103	80-131	5	20		
Chloromethane	ug/L	<2.2	50	50	35.0	37.8	70	76	24-125	8	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.2	52.4	100	105	68-137	4	22		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.2	47.6	92	95	70-130	3	20		
Dibromochloromethane	ug/L	<2.6	50	50	47.0	48.7	94	97	70-131	3	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	28.3	29.8	57	60	10-127	5	20		
Ethylbenzene	ug/L	<0.22	50	50	55.4	56.1	111	112	81-136	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	56.2	58.0	112	116	70-132	3	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.6	50.3	95	101	58-142	6	23		
Methylene Chloride	ug/L	<0.58	50	50	46.6	48.9	93	97	69-137	5	20		
Styrene	ug/L	<0.47	50	50	51.2	51.8	102	104	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	53.9	54.2	108	108	70-132	1	20		
Toluene	ug/L	0.34J	50	50	52.5	53.6	104	106	81-130	2	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	50.1	52.7	100	105	70-136	5	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	45.5	46.5	91	93	67-130	2	20		
Trichloroethene	ug/L	<0.26	50	50	52.1	53.3	104	107	70-131	2	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	49.1	51.4	98	103	66-150	4	20		
Vinyl chloride	ug/L	<0.17	50	50	41.5	41.8	83	84	46-134	1	20		
Xylene (Total)	ug/L	<1.5	150	150	166	171	110	114	70-134	3	20		
4-Bromofluorobenzene (S)	%						101	99	70-130				
Dibromofluoromethane (S)	%						98	99	70-130				
Toluene-d8 (S)	%						101	99	70-130				

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

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QUALIFIERS

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60578356 MANKOWSKI

Pace Project No.: 40179444

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40179444001	TRIP BLANK	EPA 8260	306186		
40179444002	MW-13	EPA 8260	306186		
40179444003	MW-12	EPA 8260	306186		
40179444004	MW-14R	EPA 8260	306186		
40179444005	PZ-14	EPA 8260	306186		
40179444006	MW-15	EPA 8260	306186		
40179444007	MW-20	EPA 8260	306186		
40179444008	MW-23	EPA 8260	306186		
40179444009	SMW-3	EPA 8260	306186		
40179444010	TW-2	EPA 8260	306186		
40179444011	TW-1	EPA 8260	306186		
40179444012	MW-25	EPA 8260	306186		
40179444013	PZ-9	EPA 8260	306186		
40179444014	MW-24	EPA 8260	306186		
40179444015	MW-26	EPA 8260	306186		
40179444016	MW-21	EPA 8260	306186		
40179444017	SMW-2	EPA 8260	306186		
40179444018	MW-22	EPA 8260	306186		
40179444019	MW-27	EPA 8260	306186		
40179444020	MW-27D	EPA 8260	306186		
40179444021	MW-9R	EPA 8260	306187		
40179444022	MW-19	EPA 8260	306187		
40179444023	MW-19D	EPA 8260	306187		
40179444024	PZ-9B	EPA 8260	306187		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

40179444



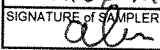
Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: AECOM - Milw		Report To: Lanette Altenbach		Attention: Accounts Payable/Finance Department	
Address: 1555 N. River Center Dr., Suite 214		Copy To:		Company Name: City of Kenosha	
Milwaukee, WI 53212				Address: 652 52nd St., Kenosha, WI 53140	
Email To: Lanette.Altенbach@aecom.com		Purchase Order No.:		Pace Quote Reference:	
Phone: 414-577-1363 Fax:		Project Name: Mankowski		Pace Project Manager: Chris Hyska	
Requested Due Date/TAT: Standard		Project Number: 60578356		Pace Profile #: (2430) Kenosha work	

REGULATORY AGENCY		
<input type="checkbox"/> NPDES	<input checked="" type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	OTHER _____
SITE LOCATION		
<input type="checkbox"/> GA	<input type="checkbox"/> IL	<input type="checkbox"/> IN
<input type="checkbox"/> MI	<input type="checkbox"/> NC	<input type="checkbox"/> OH
<input type="checkbox"/> SC	<input checked="" type="checkbox"/> WI	OTHER _____

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes 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	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Filtered (Y/N)	Requested Analytes	Pace Project Number Lab I.D.								
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other											
					DATE	TIME	DATE	TIME																					
					<input type="checkbox"/> VOCs 8280 <input type="checkbox"/> Residual Chlorine (Y/N)																								
1	TRIP BLANK	001	WT	G	-	-	11/7/18	0800	-	2																			
2	MW-13	002	WT	G	-	-		1300	-	3																			
3	MW-12	003	WT	G	-	-		1320	-	3																			
4	MW-14R	004	WT	G	-	-		1410	-	3																			
5	PZ-14	005	WT	G	-	-		1415	-	3																			
6	MW-15	006	WT	G	-	-		1455	-	3																			
7	MW-20	007	WT	G	-	-		1510	-	3																			
8	MW-23	008	WT	G	-	-		1550	-	3																			
9	SMW-3	009	WT	G	-	-		1555	-	3																			
10	TW-2	010	WT	G	-	-	11/8/18	0905	-	3																			
11	TW-1	011	WT	G	-	-		0915	-	3																			
12	MW-25	012	WT	G	-	-		1000	-	3																			

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Allen/AECOM	11/9/18	1000am	Mary Fannin	11/9/18	10:50		Y/N	Y/N	Y/N
Mary Fannin	11/9/18	1200					Y/N	Y/N	Y/N
CS Logistics	11/10/18	0900					Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: Alex Mue	SIGNATURE of SAMPLER: 				
DATE Signed (MM/DD/YY) 11/9/18					

Sample Condition Upon Receipt Form (SCUR)

Client Name: Aecom
Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project # _____

WO# : 40179444



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 SR - WMA **Type of Ice** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature **Uncorr:** Not **ICorr:** _____

Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
Date: 11/12/18
Initials: _____

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>410</u>		

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

If checked, see attached form for additional comments

Project Manager Review: _____

Date: 11/12/18