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February 1, 2019

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

Subject: October 2018 Perimeter Groundwater Sampling Summary
Former Kenosha Engine Plant, 5555 30th Avenue, Kenosha, Wisconsin

Dear Ms. Billingsley,

AECOM conducted a semi-annual groundwater sampling event on October 17 and 18, 2018, under Task Order 127-040418 for the City of Kenosha, at the former Kenosha Engine Plant (KEP). Seventeen perimeter groundwater monitoring wells (MW-31, MW-44, MW-101 through MW-103, MW-105, MW-107, MW-108 through MW-117), three piezometers (PZ-116, PZ-117 and PZ-118) and four wells at the Jockey site (MW-79 through MW-82) were sampled during the October 2018 event. Two perimeter groundwater monitoring wells (MW-70 and MW-71) were damaged and have been abandoned. These wells may be replaced at a later date, after the second phase of soil remediation and concrete removal are complete. Their alternate monitoring wells (MW-808 and MW-809) previously located under a stockpile of concrete were also damaged and have been abandoned.

Prior to sample collection, groundwater elevation measurements were collected from the sampled monitoring wells and piezometers. Depth to groundwater measurements and calculated elevations are provided in Table 1. The monitoring well and piezometer locations are depicted in Figure 1.

Groundwater flow at the KEP generally flows to the east-northeast and east-southeast across the site at the water table and to the northeast at the clay-till interface, based on the groundwater elevations using only the perimeter wells. These flow directions are consistent with the data provided in the KEP *Site Investigation Report* (AECOM, February 2015) and subsequent groundwater measurement events. Contoured groundwater elevations for October 2018, depicting groundwater flow, are shown in Figure 2 for the water table potentiometric surface and in Figure 3 for the potentiometric surface measured in the piezometers.

Groundwater samples were collected from the selected monitoring wells and piezometers using a low-flow sampling technique with a peristaltic pump and new tubing for each well. Sampling procedures were consistent with those provided in the *KEP Groundwater Monitoring Plan – Revision 1* (AECOM July 22, 2015). 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 24 monitoring wells or piezometers were submitted to Pace Analytical Services, Inc. (Pace), in Green Bay, Wisconsin, and analyzed for VOCs (SW846 Method 8260B). The groundwater analytical results were compared to the Wisconsin Administrative Code Ch. NR 140.10, Table 1, Public Heath Groundwater Quality Standards, enforcement standards (ES) and preventive action limit (PAL). The PAL is a concentration that is 10% (for carcinogenic, mutagenic or teratogenic compounds) to 20% of the enforcement standard. The PAL has been established as the concentration at

which notification to the WDNR is required. The ES is a health-risk based concentration and is equal to the US EPA's maximum contaminant level (MCL) where established. The groundwater VOC analytical results are included in Table 3. ES exceedances for VOCs are depicted in bold on Table 3 and on the site map in Figure 4. PAL exceedances for VOCs are shown in underlined italics. The laboratory analytical report is also attached.

VOCs were generally not detected in the perimeter wells except for MW-31, MW-101, MW-102, MW-114, MW-115, PZ-116, and PZ-118 as well as MW-81 and MW-82 at the Jockey site. The following groundwater quality exceedances were identified in the groundwater samples analyzed in October 2018:

Enforcement standard exceecances	**Preventive action limit exceedances**
KEP site	
MW-31 – trichloroethene (TCE)	MW-31 – cis-1,2-dichloroethene (cisDCE)
MW-114 – vinyl chloride	MW-31 – 1,1-Dichloroethene
PZ-116 – vinyl chloride	MW-102 – TCE
PZ-118 – vinyl chloride	
Jockey site	
MW-82 – cisDCE, TCE and vinyl chloride	

Concentration trends were evaluated for MW-31, MW-114 and MW-118 on the northern property boundary. There is no discernable trend in MW-31 and the contaminant concentration fluctuations mirror the water level fluctuations, as shown on Figure 5. The concentrations in MW-114 in 2015/2016 appeared to mirror the water level fluctuations with a spike in TCE concentrations in April 2016, however in 2018 a second spike of the water table did not result in a similar spike in TCE concentrations. Continued monitoring is needed to evaluate if the lower level of TCE is the result of the contaminated soil removal that took place in 2016. Figure 6 shows MW-114 VOC concentrations over time. The concentration trends for cis-1,2-dichloroethene and vinyl chloride in PZ-118 show a reduction since 2014 (Figure 7) and the concentrations do not appear to have any correlation with groundwater elevations nor the soil remediation activities.

Concentration trends were also evaluated for the groundwater from MW-82 on the Jockey property (Figure 8). There does not appear to be a contaminant concentration trend attributable to groundwater levels. The TCE concentration is on a downward trend since 2015. We believe that the downward trend may be due to the optimization we have applied to the operation of the Southern groundwater recovery system. The system had been drawing a larger quantity of groundwater from the most westerly sump (Sump 15) which was pulling the groundwater plume from the west center of the site in a southeasterly direction. At the same time the contaminant concentrations appeared to be increasing in the groundwater from MW-82. The flow from Sump 15 was slowed and the recovery from Sumps 7 and 17R were increased. Subsequent to these changes, the pump in Sump 15 failed and the remedial excavation E33T disrupted the electrical service to the sump. Therefore, this sump was removed from the groundwater recovery system and an increase in groundwater recovery from the southeast is occurring. Continue groundwater monitoring is necessary to further evaluate if the downward trend is continuing.

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In conclusion, the groundwater recovery systems are maintaining the groundwater contaminant plume on-site. Groundwater monitoring will continue on a semi-annual basis. Please contact us if you have questions.

Yours sincerely,

Joel MacKinney
Project Geologist
Joel.mackinney@aecom.com

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 all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Lanette Altenbach, P.G., C.P.G.
Senior Hydrogeologist
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Attachments

Tables

Table 1 – Groundwater Measurements and Elevations - Perimeter Monitoring Wells & Piezometers
Table 2 – Measured Field Parameters from Perimeter Monitoring Wells & Piezometers
Table 3 – Detected VOCs in Groundwater from Perimeter Monitoring Wells & Piezometers

Figures

Figure 1 – Perimeter Monitoring Well and Piezometer Locations
Figure 2 – Potentiometric Surface – Perimeter Water Table Monitoring Wells – October 2018
Figure 3 – Potentiometric Surface – Perimeter Piezometers – October 2018
Figure 4 – VOCs Detected in Groundwater Above Enforcement Standards – October 2018
Figure 5 – MW-31 TCE Concentrations and Groundwater Elevations over Time
Figure 6 – MW-114 Analyte Concentrations and Groundwater Elevations over Time
Figure 7 – PZ-118 Analyte Concentrations and Groundwater Elevations over Time
Figure 8 – MW-82 Analyte Concentrations and Groundwater Elevations over Time

Laboratory Analytical Report

Cc: Mark Drews, WDNR Project Manager with Attachments
Kyle Rogers, USEPA, Brownfields Project Manager

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-31		MW-44		MW-70		MW-71		MW-101		MW-102		MW-103	
Ground Elevation (ft)	624.45		624.49		623.49		623.57		624.01		624.18		625.74	
Top of PVC Casing (TOC) Elevation (ft)	627.42		624.194		623.17		623.35		623.46		623.66		625.33	
Top of Screen Elevation (ft)	615.72		619.724		616.19		616.25		620.56		621.06		622.04	
Screen Length (ft)	10		10		10		10		10		10		10	
TOC to Bottom of Well (ft)[A]	21.7		14.47		16.98		17.1		12.9		12.6		13.29	
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)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	11.41	616.01	10.19	614.00	6.54	616.63	7.02	616.33	5.40	618.06	4.92	618.74	5.10	620.23
9/22/2014	13.17	614.25	10.95	613.24	7.48	615.69	7.95	615.40	5.96	617.50	5.33	618.33	5.41	619.92
12/1/2014	13.13	614.29	11.20	612.99	7.64	615.53	8.06	615.29	6.07	617.39	5.38	618.28	5.45	619.88
3/20/2015	12.49	614.93	11.15	613.04	7.95	615.22	8.02	615.33	5.75	617.71	5.51	618.15	5.56	619.77
6/23/2015	12.18	615.24	NM	--	NM	--	7.19	616.16	5.44	618.02	5.06	618.60	5.25	620.08
9/21/2015	12.24	615.18	10.37	613.82	NM	--	NM	--	5.16	618.30	4.94	618.72	5.12	620.21
4/13/2016	9.89	617.53	9.51	614.68	NM	--	NM	--	5.24	618.22	4.83	618.83	5.05	620.28
11/28/2016	12.51	614.91	10.80	613.39	NM	--	8.10	615.25	6.50	616.96	4.80	618.86	NM	--
5/16/2018	9.50	617.92	9.71	614.48	NM	--	NM	--	4.85	618.61	3.41	620.25	3.59	621.74
10/17/2018	11.71	615.71	9.92	614.27	NM	--	NM	--	5.58	617.88	4.48	619.18	4.77	620.56

ft = feet
[A] = as measured inside well
NI = Not Installed
NM = Not Measured
-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-105		MW-107		MW-108		MW-109		MW-110		MW-111		MW-112	
Ground Elevation (ft)	623.87		625.74		623.742		625.19		622.88		621.41		621.61	
Top of PVC Casing (TOC) Elevation (ft)	623.35		624.59		623.262		624.62		622.42		621.04		621.18	
Top of Screen Elevation (ft)	619.65		620.19		619.162		618.37		618.42		618.44		617	
Screen Length (ft)	10		10		10		10		10		10		10	
TOC to Bottom of Well (ft)[A]	13.7		14.4		14.1		16.25		14		12.6		14.18	
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)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	8.20	615.15	NM	--	4.38	618.88	13.71	610.91	5.69	616.73	6.71	614.33	4.36	616.82
9/22/2014	8.46	614.89	10.74	613.85	7.74	615.52	13.88	610.74	7.20	615.22	7.56	613.48	5.41	615.77
12/1/2014	8.58	614.77	8.36	616.23	7.10	616.16	13.86	610.76	7.18	615.24	7.31	613.73	4.91	616.27
3/20/2015	8.42	614.93	10.94	613.65	3.53	619.73	13.96	610.66	5.48	616.94	7.24	613.80	4.41	616.77
6/23/2015	7.83	615.52	9.73	614.86	5.62	617.64	13.73	610.89	6.14	616.28	6.88	614.16	4.42	616.76
9/21/2015	6.92	616.43	9.77	614.82	6.60	616.66	13.73	610.89	6.67	615.75	7.04	614.00	4.18	617.00
4/13/2016	7.61	615.74	9.13	615.46	3.49	619.77	13.61	611.01	4.93	617.49	6.26	614.78	3.72	617.46
11/28/2016	8.54	614.81	NM	--	7.20	616.06	13.88	610.74	7.20	615.22	7.69	613.35	4.78	616.40
5/16/2018	7.86	615.49	9.26	615.33	2.92	620.34	13.52	611.10	3.24	619.18	5.39	615.65	2.04	619.14
10/17/2018	7.64	615.71	9.35	615.24	4.69	618.57	13.65	610.97	5.43	616.99	6.79	614.25	3.72	617.46

ft = feet
[A] = as measured inside well
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NM = Not Measured
-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	MW-113		MW-114		MW-115		MW-116		PZ-116		MW-117		PZ-117	
Ground Elevation (ft)	623.17		622.82		623.71		623.29		623.27		621.89		621.95	
Top of PVC Casing (TOC) Elevation (ft)	622.81		622.28		623.39		622.73		622.87		621.59		621.51	
Top of Screen Elevation (ft)	619.3		618.85		619.23		619.69		596.45		616.67		600.92	
Screen Length (ft)	10		10		10		10		2.5		10		2.5	
TOC to Bottom of Well (ft)[A]	13.51		13.43		14.16		13.04		28.92		14.92		23.09	
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)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	9.60	613.21	6.41	615.87	5.21	618.18	6.61	616.12	7.15	615.72	7.22	614.37	6.49	615.02
9/22/2014	10.78	612.03	8.54	613.74	6.98	616.41	8.27	614.46	8.13	614.74	8.44	613.15	8.11	613.40
12/1/2014	10.61	612.20	8.44	613.84	6.84	616.55	7.94	614.79	8.11	614.76	8.18	613.41	8.10	613.41
3/20/2015	10.50	612.31	8.53	613.75	5.78	617.61	6.75	615.98	7.72	615.15	7.85	613.74	7.65	613.86
6/23/2015	NM	--	8.36	613.92	5.82	617.57	7.16	615.57	7.45	615.42	7.82	613.77	7.59	613.92
9/21/2015	9.93	612.88	8.40	613.88	5.90	617.49	7.05	615.68	7.91	614.96	7.80	613.79	7.95	613.56
4/13/2016	8.95	613.86	5.45	616.83	4.98	618.41	4.99	617.74	6.32	616.55	7.10	614.49	6.33	615.18
11/28/2016	11.15	611.66	8.34	613.94	6.28	617.11	8.05	614.68	8.32	614.55	8.19	613.40	8.32	613.19
5/16/2018	8.61	614.20	5.60	616.68	4.86	618.53	3.11	619.62	5.07	617.80	5.88	615.71	5.78	615.73
10/17/2018	10.16	612.65	8.12	614.16	5.09	618.30	6.23	616.50	7.00	615.87	7.71	613.88	7.37	614.14

ft = feet
[A] = as measured inside well
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NM = Not Measured
-- no elevation

Table 1
Groundwater Measurements and Elevations
KEP Perimeter Wells
Kenosha, Wisconsin

Well Number	PZ-118		MW-206	
Ground Elevation (ft)	622.33		625.52	
Top of PVC Casing (TOC) Elevation (ft)	622.05		627.88	
Top of Screen Elevation (ft)	602.71		620.89	
Screen Length (ft)	2.5		10	
TOC to Bottom of Well (ft)[A]	21.84		16.99	
Date	Depth to GW from TOC (ft)	Groundwater Elevation (ft)	Depth to GW from TOC (ft)	Groundwater Elevation (ft)
5/8 - 5/20/2014	6.30	615.75	10.80	617.08
9/22/2014	8.21	613.84	10.99	616.89
12/1/2014	8.29	613.76	11.12	616.76
3/20/2015	7.82	614.23	11.08	616.80
6/23/2015	6.96	615.09	10.46	617.42
9/21/2015	7.24	614.81	9.99	617.89
4/13/2016	5.44	616.61	5.33	622.55
11/28/2016	8.19	613.86	NM	--
5/16/2018	5.41	616.64	5.28	622.60
10/17/2018	7.20	614.85	4.98	622.90

ft = feet
[A] = as measured inside well
NI = Not Installed
NM = Not Measured
-- no elevation

Table 1
Groundwater Measurements and Elevations
Jockey Site Wells
Kenosha, Wisconsin

Well Number	MW-79		MW-80		MW-81		MW-82	
Ground Elevation (ft)	624.55		623.7		624.05		624.7	
Top of PVC Casing (TOC) Elevation (ft)	624.39		623.5		623.89		624.5	
Top of Screen Elevation (ft)	617.89		617		617.39		618	
Screen Length (ft)	10		10		10		10	
TOC to Bottom of Well (ft)[A]	16.5		16.5		16.5		16.5	
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)
9/30/2014	8.50	615.89	4.78	618.72	9.50	614.39	10.60	613.90
12/9/2014	9.19	615.20	5.70	617.80	9.39	614.50	10.65	613.85
3/20/2015	9.18	615.21	5.54	617.96	7.49	616.40	9.90	614.60
9/21/2015	8.95	615.44	6.05	617.45	9.14	614.75	10.61	613.89
4/13/2016	8.03	616.36	5.85	617.65	8.04	615.85	9.81	614.69
12/5/2016	9.75	614.64	7.65	615.85	10.25	613.64	11.20	613.30
5/17/2018	7.34	617.05	3.76	619.74	7.81	616.08	9.81	614.69
10/18/2018	9.59	614.80	6.39	617.11	10.27	613.62	11.80	612.70

ft = feet

[A] = as measured inside well

NI = Not Installed

NM = Not Measured

-- no elevation

Note: 5-17-18 the cap on MW-80 was loose and asphalt/gravel was obtained during purging.

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-31	5/28/2014	5.87	2.61	-148.3	1.507	9.14	616.01
	9/25/2014	6.87	0.49	30.0	1.525	14.78	614.25
	11/30/2016	7.52	1.23	79.9	1.287	11.47	614.91
	5/16/2018	7.06	6.82	37.30	1.473	13.58	617.92
	10/18/2018	6.91	2.37	42.4	1.879	15.09	615.71
MW-44	5/21/2012	7.33	0.42	-71.2	2.068	12.98	613.55
	5/22/2014	6.73	1.06	188.3	4.129	11.33	614.00
	10/18/2018	7.90	0.16	-102.7	2.562	19.61	
	9/30/2014	6.89	0.35	95.5	4.158	16.27	613.24
	12/4/2014	7.03	0.89	-8.2	2.586	12.29	612.99
	9/23/2015	6.97	0.86	16.9	4.675	18.05	613.82
	4/14/2016	7.05	4.92	57.1	4.846	9.2	614.68
	10/18/2018	6.83	0.20	-117.9	3.118	19.42	
	11/30/2016	7.56	1.19	-6.5	1.789	12.01	613.39
	5/17/2018	7.13	1.98	25.0	2.627	12.28	614.48
	10/18/2018	7.22	0.87	63.9	5.294	17.35	614.27
	10/18/2018	7.83	0.21	-89.6	3.82	21.28	
MW-70	11/4/2011	5.63	0.39	62.20	2.134	17.95	614.91
	5/21/2014	5.71	0.56	-184.30	3.012	12.25	616.63
	9/23/2014	6.58	0.94	126.10	2.184	18.73	615.69
	12/2/2014	6.81	0.54	39.1	1.003	11.58	615.53
	9/23/2015	access blocked by concrete pile					
	11/28/2016	access blocked by concrete pile					
	5/17/2018	Well damaged					
MW-71	11/4/2011	5.89	0.61	34.40	2.585	16.98	614.67
	5/21/2014	5.98	0.87	-208.40	1.598	12.55	616.33
	9/23/2014	6.77	0.26	90.20	1.312	17.74	615.40
	12/2/2014	6.92	0.32	21.3	1.128	12.29	615.29
	9/23/2015	access blocked by concrete pile					
	11/28/2016	access blocked by concrete pile					
	5/17/2018	Well damaged					

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-101	1/23/2012	7.68	4.28	3.50	0.756	8.8	617.03
	5/20/2014	6.95	2.8	-156.30	1.454	14.07	618.06
	9/29/2014	7.27	0.81	34.80	1.34	20.46	617.50
	12/5/2014	7.3	1.22	-19	1.26	12.1	617.39
	9/22/2015	7.29	2.19	29.2	1.411	20.62	618.30
	4/15/2016	7.51	4.75	2.8	1.383	9.73	618.22
	11/28/2016	7.26	1.23	11.2	1.481	13.14	616.96
	5/16/2018	8.98	4.3	-75.4	1.514	12.75	618.61
	10/17/2018	7.18	2.41	82.6	1.2887	15.61	617.88
MW-102	1/26/2012	7.09	0.67	-74.20	1.214	9.09	617.81
	5/16/2014	6.98	3.56	-48.50	2.320	8.98	618.74
	9/29/2014	7.01	0.14	-77.10	1.345	19.52	618.33
	12/4/2014	7.29	0.39	-56.3	1.509	11.35	618.28
	3/25/2015	7.23	0.54	-23.3	1.38	5.87	618.15
	9/24/2015	7.05	0.71	-47.2	1.617	18.76	618.72
	4/15/2016	7.31	0.47	38.2	2.414	9.28	618.83
	11/29/2016	7.53	0.54	148	1.245	15.01	618.86
	5/16/2018	7.35	7.36	38.10	1.829	11.87	620.25
	10/17/2018	7.19	0.68	13.80	0.891	15.21	619.18
MW-103	5/16/2018	9.15	2.35	-83.60	1.221	12.20	621.74
	10/17/2018	NM	0.4	439.60	1.463	17.21	620.56
MW-105	1/24/2012	6.89	0.38	-87.00	2.997	11.06	613.53
	5/20/2019	6.48	0.47	-237.20	3.898	13.43	615.15
	9/30/2014	7.08	0.14	-62.10	2.787	16.75	614.89
	12/5/2014	6.70	0.6	-53.10	2.368	12.78	614.77
	9/22/2015	7.09	0.7	-9.10	0.899	18.25	616.43
	4/14/2016	6.91	2.68	-23.10	2.731	9.42	615.74
	11/28/2016	6.79	0.61	-90.50	1.845	13.23	614.81
	5/16/2018	7.02	1.19	-96.70	1.893	13.72	615.49
	10/17/2018	6.71	0.11	-41.00	2.254	15.18	615.71
MW-107	5/16/2018	9.36	1.43	-84.40	0.940	11.84	615.33
	10/17/2018	6.63	0.3	-31.20	1.488	16.73	615.24

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-108	5/21/2012	7.16	1.73	-65.00	4.583	13.19	616.56
	5/23/2014	6.67	4.39	188.30	6.796	11.73	618.88
	9/30/2014	6.85	0.36	80.90	4.932	16.16	615.52
	12/4/2014	6.94	1.66	-3	4.386	10.4	616.16
	9/23/2015	6.87	0.96	27.8	4.504	18.23	616.66
	4/14/2016	7.33	4.65	90.8	4.674	8.53	619.77
	11/30/2016	7.19	0.87	172.3	3.341	13.4	616.06
	5/17/2018	6.97	4.42	108.9	3.831	12.57	620.34
	10/17/2018	7.08	0.64	43.7	3.751	16.91	618.57
MW-109	6/5/2014	6.23	0.44	-26.20	0.831	11.59	610.91
	9/23/2014	7.01	0.45	151.00	1.244	15.00	610.74
	12/5/2014	6.7	0.75	-63.70	1.303	12.41	610.76
	9/23/2015	7.05	0.34	-89.00	1.737	15.13	610.89
	4/15/2016	7.21	0.64	11.40	1.641	10.83	611.01
	11/29/2016	7.39	0.82	-1.80	1.326	13.82	610.74
	5/17/2018	7.04	0.41	-35.20	0.924	12.05	611.10
	10/18/2018	7.03	0.38	-100.10	0.895	14.03	610.97
MW-110	5/22/2014	7.02	9.23	59.00	0.538	10.15	616.73
	9/23/2014	7.25	0.6	165.00	0.755	17.50	615.22
	12/5/2014	7.26	2.7	-2.00	0.639	11.57	615.24
	9/23/2015	7.05	0.68	239.00	0.557	23.82	615.75
	4/14/2016	7.51	9.57	21.10	0.598	8.69	617.49
	11/29/2016	7.59	1.95	108.00	0.498	14.39	615.22
	5/17/2018	7.26	9.19	105.60	0.436	10.90	619.18
	10/18/2018	7.99	6.51	55.60	0.762	16.60	616.99
MW-111	5/21/2014	7.05	1.81	74.30	0.977	10.83	614.33
	9/23/2014	7.29	0.69	180.00	0.634	18.10	613.48
	12/5/2014	7.3	1.38	-7.80	0.605	12.12	613.73
	9/23/2015	7.88	0.75	169.00	0.449	22.68	614.00
	4/14/2016	7.74	2.02	22.00	0.527	9.06	614.78
	11/29/2016	7.23	3.82	64.70	0.34	14.16	613.35
	5/17/2018	7.15	0.76	153.90	0.686	11.63	615.65
	10/18/2018	6.9	0.2	-111.00	0.930	14.47	614.25

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-112	11/3/2011	6.85	0.5	-2.50	2.661	15.52	615.47
	5/21/2014	7.19	0.74	43.10	2.699	11.28	616.82
	9/24/2014	7.05	0.5	68.40	2.26	17.78	615.77
	12/5/2014	7.25	3.69	-11.3	1.124	10.85	616.27
	9/22/2015	7.18	3.55	4	1.482	17.92	617.00
	4/15/2016	7.41	3.08	-13.7	1.49	9.07	617.46
	11/29/2016	7.36	4	59.7	0.73	13.97	616.40
	5/17/2018	7.11	2.29	174.1	1.208	12.15	619.14
	10/18/2018	7.08	1.13	-13.6	1.676	14.94	617.46
MW-113	8/18/2011	7.27	0.73	-7.10	2.699	16.82	612.11
	5/28/2014	7.11	1.73	-208.70	1.586	11.29	613.21
	9/25/2014	7.7	0.24	283.00	3.400	16.40	604.03
	12/5/2014	7.18	2.1	-24.9	1.992	11.72	612.20
	3/25/2015	7.24	2.03	52.3	2.812	8.32	612.31
	9/22/2015	7.23	0.8	-24.5	1.755	17.19	612.88
	4/15/2016	7.45	3.55	187.9	1.459	9.01	613.86
	11/29/2016	7.42	1.06	175.6	1.296	13.98	611.66
	5/16/2018	7.25	6.33	37.3	1.144	11.1	614.20
	10/18/2018	7.85	0.44	73.6	1.449	15.44	612.65
MW-114	8/18/2011	7.44	0.32	-97.10	1.159	15.69	613.45
	5/28/2014	6.95	4.13	-188.70	1.241	10.72	615.87
	9/29/2014	7.21	0.18	-109.40	0.180	15.73	613.74
	12/4/2014	7.29	0.23	-89.5	0.911	11.28	613.84
	3/25/2015	7.34	0.32	-79.4	1.192	7.05	613.75
	9/22/2015	7.13	0.3	-113.6	1.177	16.35	613.88
	4/15/2016	6.94	4.24	-3.3	1.464	8.12	616.83
	11/28/2016	7.22	0.75	-110.9	0.81	12.68	613.94
	5/16/2018	7.3	-	-36.5	1.102	11.99	616.68
	10/17/2018	7.16	0.2	-109.6	1.115	14.22	614.16
MW-115	8/18/2011	7.48	1.61	-14.00	0.985	17.97	616.45
	5/28/2014	6.37	6.38	-144.70	1.191	9.94	618.18
	9/29/2014	7.07	1.17	105.10	0.808	17.44	616.41
	12/4/2014	7.21	3.55	-15.7	0.715	10.84	616.55
	9/22/2015	7.08	1.98	71.8	0.941	18.06	617.49
	4/15/2016	7.57	5.24	180.7	0.731	8.16	618.41
	11/28/2016	7.17	3.66	85.7	0.731	12.9	617.11
	5/16/2018	7.16	5.67	48.9	0.861	11.56	618.53
	10/17/2018	6.96	3.8	24.3	0.888	15.73	618.30

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-116	11/8/2011	6.41	1.44	-25.80	0.776	13.67	613.64
	5/22/2014	6.77	3.18	67.30	0.649	9.32	616.12
	9/23/2014	7.07	0.39	151.00	0.808	15.20	614.46
	12/2/2014	7	0.88	11.1	0.642	10.45	614.79
	9/23/2015	6.86	2.06	45.9	0.993	15.79	615.68
	4/14/2016	7.32	6.16	64.7	0.761	9.11	617.74
	11/29/2016	7.23	1.59	156.2	0.682	13.25	614.68
	5/17/2018	6.97	7.18	124.9	0.529	10.84	619.62
	10/18/2018	6.85	1.99	-39.9	0.884	14.62	616.50
PZ-116	11/8/2011	6.23	0.4	-58.50	1.808	12.23	613.76
	5/22/2014	6.98	0.29	38.50	2.01	11.63	615.72
	9/23/2014	7.11	0.25	165.00	2.05	14.40	614.74
	12/2/2014	7.06	0.24	-79.6	1.714	10.36	614.76
	9/23/2015	6.96	0.26	-104.8	2.46	13.68	614.96
	4/14/2016	7.03	0.99	-41.1	2.564	10.74	616.55
	11/29/2016	6.97	0.75	-102.8	0.792	12.47	614.55
	5/17/2018	6.97	0.4	-27.2	1.838	11.62	617.80
	10/18/2018	6.93	0.8	-98.8	2.338	14.22	615.87
MW-117	5/21/2014	6.91	2.73	42.30	1.237	12.10	614.37
	9/24/2014	7.09	0.61	51.80	1.253	15.94	613.15
	12/4/2014	6.81	0.28	-48.30	1.202	12.6	613.41
	3/24/2015	7.15	2.69	-9.40	1.033	7.71	613.74
	9/23/2015	6.99	0.5	-102.60	1.276	16.55	613.79
	4/14/2016	7.15	1.3	-44.70	1.065	9.52	614.49
	11/29/2016	7.13	0.7	-67.60	0.887	14.58	613.40
	5/17/2018	7.05	3.02	34.20	0.849	11.74	615.71
	10/18/2018	7.86	0.18	-51.40	0.892	14.93	613.88
PZ-117	5/21/2014	6.98	0.11	-12.00	0.882	11.48	615.02
	9/24/2014	7.05	0.43	-44.00	1.501	14.53	613.40
	12/4/2014	6.9	0.48	-33.10	1.188	12.52	613.41
	3/24/2015	7.3	0.54	-44.40	0.443	8.22	613.86
	9/23/2015	6.94	0.3	-116.10	1.635	14.52	613.56
	4/14/2016	7.31	0.54	-18.90	1.692	11	615.18
	11/29/2016	7.49	0.41	-42.70	1.353	13.7	613.19
	5/17/2018	7.05	0.51	-13.50	1.042	12.41	615.73
	10/18/2018	7.71	0.35	-13.60	1.283	13.66	614.14

Table 2
Measured Field Parameters
KEP Perimeter Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
PZ-118	5/28/2014	6.73	3.17	-201.00	1.702	11.10	615.75
	9/25/2014	7.07	0.11	301.00	5.500	14.80	613.84
	12/5/2014	7.1	0.76	-56.20	1.504	12.69	613.76
	3/25/2015	7.15	1.03	-37.10	2.089	8.66	614.23
	9/22/2015	7	0.24	-95.10	2.050	16.30	614.81
	4/15/2016	7.13	2.52	-60.30	2.198	9.50	616.61
	11/28/2016	7.08	2.55	-3.10	1.404	12.87	613.86
	5/16/2018	7.12	0.88	-59.90	1.292	12.79	616.64
	10/17/2018	7.4	0.19	-37.80	1.714	14.34	614.85

** Groundwater elevations from single day measuring event, rather than sampling date

mg/l = milligrams per liter. msl = mean sea level mS/cm = microSiemens per centimeter
ft = feet mV = millivolts

Table 2
Measured Field Parameters
Jockey Site Wells

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)	Groundwater Elevation** (ft msl)
MW-79	9/30/2014	7.15	0.28	-70.8	3.903	18.80	615.89
Jockey	12/5/2016	8.11	0.61	-153.7	3.682	13.15	614.64
	5/19/2018	7.13	0.29	-54.6	3.572	14.61	617.05
	10/18/2018	6.84	0.27	-109.3	6.524	19.15	614.80
MW-80	9/30/2014	7.23	0.17	-115.1	4.412	19.74	618.72
Jockey	12/5/2016	8.16	0.53	-154.4	3.164	13.67	615.85
	5/19/2018	7.51	0.15	-83.2	0.182	14.27	619.74
	10/18/2018	7.90	0.16	-102.7	2.562	19.61	617.11
MW-81	9/30/2014	6.98	0.34	-85.5	2.53	18.36	614.39
Jockey	12/5/2016	7.91	0.64	-137.0	2.67	12.66	613.64
	5/19/2018	7.02	0.38	-47.4	2.558	14.73	616.08
	10/18/2018	6.83	0.20	-117.9	3.118	19.42	613.62
MW-82	9/30/2014	7.06	0.24	-89.2	4.205	19.64	613.90
Jockey	10/18/2018	7.22	0.87	63.9	5.294	17.35	614.27
	12/5/2016	8.07	0.52	-145.7	4.223	14.17	613.30
	5/19/2018	7.25	0.23	-67.9	3.011	14.82	614.69
	10/18/2018	7.83	0.21	-89.6	3.824	21.28	612.70

mg/l = milligrams per liter. msl = mean sea level mS/cm = microSiemens per centimeter
ft = feet mV = millivolts

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-31	5/28/2014	< 2.5	1.9 J	*3.2 J*	< 12.2	< 1.9	< 2.5	**79.2**	< 0.87	< 2.5	*28.8*	**499**	< 0.88
	9/25/2014	< 0.5	< 0.24	*1.7 J*	< 2.4	< 0.37	< 0.5	**97.8 J**	< 0.17	< 0.5	*26.1 J*	**63.8 J**	< 0.18
	12/3/2014	< 0.5	0.46 J	*2.9*	< 2.4	< 0.37	< 0.5	**106**	< 0.17	< 0.5	*35*	**116**	**0.33 J**
	3/24/2015	< 2.5	< 1.2	*2.8 J*	< 12.2	< 1.9	< 2.5	**79.8 J**	< 0.87	< 2.5	*26.9*	**361**	< 0.88
	11/30/2016	< 1	< 0.48	*2.9*	< 4.9	< 0.75	< 1	**98.6**	< 0.35	< 1	*42.7*	**91.8**	**0.51 J**
	5/16/2018	< 5.0	< 2.4	< 4.1	< 2.3	< 3.7	< 5.0	*27*	< 1.7	< 5.0	15.0	**807**	< 1.8
	10/17/2018	< 0.98	< 1.1	*1.3 J*	< 3.9	< 5.4	< 8.8	*17.9*	< 5.0	< 1.3	9.6 J	**470**	< 0.70
MW-44	5/21/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/23/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/30/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/30/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-70	11/4/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	0.31 J	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
MW-71	11/4/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
MW-101	1/23/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/20/2014	0.63 J	0.25 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	1.2	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	0.78 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	0.99 J	0.42 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	0.51 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	0.79 J	0.65 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	0.86 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	0.82 J	0.35 J	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-102	1/26/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	1/26/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/16/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/24/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/15/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.23** J
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	*1.7*	< 0.17
MW-102 DUP	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
MW-103	5/16/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-105	1/24/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/16/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/20/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/30/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-107	7/15/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-108	5/21/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/23/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/30/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/30/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-108 DUP	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-109	6/5/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-110	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-111	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloroethane (ug/L)	1,1-Dichloroethane (ug/L)	1,1-Dichloroethene (ug/L)	Bromomethane (ug/L)	Chloroethane (ug/L)	Chloromethane (ug/L)	cis-1,2-Dichloroethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloroethene (ug/L)	trans-1,2-Dichloroethene (ug/L)	Trichloroethene (ug/L)	Vinyl chloride (ug/L)
MW-112	11/3/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	1.3	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-113	8/18/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/28/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/25/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-114	8/18/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	0.33 J	*8.7*	0.73 J	< 0.45	< 0.89	**5.5**	**30.4**
	4/9/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	3.1	< 0.61	< 0.45	< 0.89	*0.67* J	**21.1**
	5/28/2014	2.6	1.7	< 0.41	< 2.4	0.55 J	< 0.5	*9.5*	0.21 J	< 0.5	0.61 J	**26.7**	**1.4**
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.8	< 0.17	< 0.5	< 0.26	< 0.33	**32.1**
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	4.9	0.24 J	< 0.5	2.3 J	*0.84* J	**24.8** J
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	2.8	0.18 J	< 0.5	0.36 J	< 0.33	**16.7**
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	4.8	0.5 J	< 0.5	0.79 J	< 0.33	**19.5**
	4/15/2016	16.1	5.8	*0.82* J	< 2.4	< 0.37	< 0.5	*49*	< 0.17	*1*	5.8	**270**	**5.5**
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.9	< 0.17	< 0.5	0.75 J	< 0.33	**24**
	5/16/2018	3.3	1.3	< 0.41	< 2.4	< 0.37	< 0.50	3.9	< 0.17	< 0.50	0.57 J	**10.4**	**8.6**
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	3.3	< 1.2	< 0.33	< 1.1	< 0.26	**14.1**
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloro ethane (ug/L)	1,1-Dichloro ethane (ug/L)	1,1-Dichloro ethene (ug/L)	Bromo methane (ug/L)	Chloro ethane (ug/L)	Chloro methane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)
MW-114 DUP	5/28/2014	2.6	1.6	< 0.41	< 2.4	0.55 J	< 0.5	*9.5*	0.24 J	< 0.5	0.62 J	**27.2**	**1.5**
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.6	< 0.17	< 0.5	0.44 J	< 0.33	**30.6**
	12/4/2014	< 0.5	0.28 J	< 0.41	< 2.4	< 0.37	< 0.5	5.4	< 0.17	< 0.5	0.52 J	*1.2*	**17.8 J**
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.6	0.47 J	< 0.5	< 0.26	< 0.33	**15.3**
	4/15/2016	15.9	5.7	*0.85* J	< 2.4	< 0.37	< 0.5	*49.1*	< 0.17	*1.1*	5.9	**273**	**5.8**
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	4	< 0.17	< 0.5	0.69 J	< 0.33	**25.2**
	5/16/2018	3.4	1.3	< 0.41	< 2.4	< 0.37	< 0.50	4.2	< 0.17	< 0.50	0.68 J	**11.5**	**7.8**
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	3.3	< 1.2	< 0.33	< 1.1	< 0.26	**14.1**
MW-115	8/18/2011	< 0.9	< 0.75	< 0.57	*1.3*	< 0.97	0.4 J	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/9/2012	1.6	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/28/2014	1.2	0.42 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/29/2014	0.91 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	0.71 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/22/2015	0.98 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/15/2016	0.77 J	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/28/2016	0.71 J	0.27 J	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/17/2018	0.72 J	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
MW-116	11/8/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/11/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
PZ-116	11/8/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	4/11/2012	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 0.24	< 0.83	< 0.61	< 0.45	< 0.89	< 0.48	< 0.18
	5/22/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/23/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/2/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.3 J**
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.32 J**
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.4 J**
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	**0.76 J**
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	**0.32 J**
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Table 3
Detected Volatile Organic Compounds in Groundwater
KEP Perimeter Monitoring Wells and Piezometers

Location	Sample Date	1,1,1-Trichloro ethane (ug/L)	1,1-Dichloro ethane (ug/L)	1,1-Dichloro ethene (ug/L)	Bromo methane (ug/L)	Chloro ethane (ug/L)	Chloro methane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	Methyl-tert-butyl ether (ug/L)	Tetrachloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)
MW-117	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	< 0.18
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	3/24/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
PZ-117	5/21/2014	< 0.5	< 0.18	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.24	< 0.33	**0.64** J
	9/24/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.95** J
	12/4/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.95** J
	3/24/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	< 0.18
	9/23/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.66** J
	4/14/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.51** J
	11/29/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	< 0.26	< 0.17	< 0.5	< 0.26	< 0.33	**0.29** J
	5/17/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	< 0.26	< 0.17	< 0.50	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
PZ-118	5/28/2014	< 0.5	0.41 J	0.65 J	< 2.4	< 0.37	< 0.5	**295**	< 0.17	< 0.5	2.3	< 0.33	**92.3**
	9/25/2014	< 0.5	0.39 J	< 0.41	< 2.4	< 0.37	< 0.5	**134**	< 0.17	< 0.5	1.6	< 0.33	**192**
	12/5/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*21.4*	< 0.17	< 0.5	0.81 J	< 0.33	**62.8**
	3/25/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*20.4*	< 0.17	< 0.5	< 0.26	< 0.33	**48.1**
	9/22/2015	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*21.5*	< 0.17	< 0.5	< 0.26	< 0.33	**37.2**
	4/15/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*8.9*	< 0.17	< 0.5	0.31 J	< 0.33	**14.6**
	11/28/2016	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	*10.4*	< 0.17	< 0.5	0.78 J	< 0.33	**5.4**
	5/16/2018	< 0.50	< 0.24	< 0.41	< 2.4	< 0.37	< 0.50	4.7	< 0.17	< 0.50	< 0.26	< 0.33	**22.1**
	10/17/2018	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	5.2	< 1.2	< 0.33	< 1.1	< 0.26	**17.3**
	PAL	40	85	0.7	1	80	3	7	12	0.5	20	0.5	0.02
	ES	200	850	7	10	400	30	70	60	5	100	5	0.2

Notes:

ug/L = micrograms per liter

J = Estimated value

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are *underlined italics*.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are **bold.**

Table 3
Detected Volatile Organic Compounds in Groundwater
Jockey Site Monitoring Wells

Location	Sample Date	1,1-Dichloro ethane (ug/L)	1,1-Dichloro ethene (ug/L)	Chloro ethane (ug/L)	Chloro methane (ug/L)	cis-1,2-Dichloro ethene (ug/L)	trans-1,2-Dichloro ethene (ug/L)	Trichloro ethene (ug/L)	Vinyl chloride (ug/L)
MW-79 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	<0.20	<0.45	<0.32	<0.30
	10/6/2008	NPD	NPD	NPD	NPD	<0.20	<0.45	<0.32	<0.30
	9/30/2014	< 0.24	< 0.41	< 0.37	< 0.5	< 0.26	< 0.26	< 0.33	< 0.18
	12/9/2014	< 0.24	< 0.41	< 0.37	< 0.5	< 0.26	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.24	< 0.41	< 0.37	< 0.5	< 0.26	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.24	< 0.41	< 0.37	< 0.50	< 0.26	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.27	< 0.24	< 1.3	< 2.2	< 0.27	< 1.1	< 0.26	< 0.17
MW-80 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	<0.20	<0.45	<0.32	<0.30
	10/6/2008	NPD	NPD	NPD	NPD	<0.20	<0.45	<0.32	<0.30
	9/30/2014	< 0.24	< 0.41	< 0.37	< 0.5	0.48 J	< 0.26	0.4 J	< 0.18
	12/9/2014	< 0.24	< 0.41	< 0.37	< 0.5	< 0.26	< 0.26	< 0.33	< 0.18
	3/25/2015	< 0.24	< 0.41	< 0.37	< 0.5	< 0.26	< 0.26	< 0.33	< 0.18
	5/17/2018	< 0.24	< 0.41	< 0.37	< 0.50	< 0.26	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.27	< 0.24	< 1.3	< 2.2	< 0.27	< 1.1	< 0.26	< 0.17
MW-81 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	**71.1**	14.5	*1.3*	**15.8**
	10/6/2008	NPD	NPD	NPD	NPD	*45.5*	14.6	<0.32	**12**
	9/30/2014	< 0.24	< 0.41	< 0.37	< 0.5	*29.5*	3.8	< 0.33	**2.8**
	12/9/2014	< 0.24	< 0.41	< 0.37	< 0.5	*14.4*	1.7	< 0.33	**1.6**
	3/25/2015	< 0.24	< 0.41	< 0.37	< 0.5	*9.6*	2.5	< 0.33	**6.1**
	5/17/2018	< 0.24	< 0.41	< 0.37	< 0.50	2.0	< 0.26	< 0.33	< 0.18
	10/18/2018	< 0.27	< 0.24	< 1.3	< 2.2	0.89 J	< 1.1	< 0.26	< 0.17
MW-82 (Jockey)	8/21/2008	NPD	NPD	NPD	NPD	**1970**	*75.3*	**4,670**	**62.6**
	10/6/2008	NPD	NPD	NPD	NPD	**1650**	*61.3*	**2,970**	**35.8**
	9/30/2014	< 24.2	< 41	< 37.5	< 50	**1350**	*84* J	**8,100**	**75.9** J
	12/9/2014	< 24.2	< 41	< 37.5	< 50	**1170**	*74.8* J	**8,300**	**58.4** J
	3/25/2015	< 9.7	< 16.4	< 15	< 20	**691**	*38.7* J	**2,670**	**27.6** J
	5/17/2018	< 2.4	< 4.1	< 3.7	< 5.0	**561**	*42.3*	**304**	**7.5** J
	10/18/2018	< 0.27	< 0.24	< 1.3	< 2.2	**133**	4.0	**17.9**	**25.1**
	PAL	85	0.7	80	3	7	20	0.5	0.02
	ES	850	7	400	30	70	100	5	0.2

Notes:
ug/L = micrograms per liter
J = Estimated value - see data validation memo
PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are *underlined italics*.
ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, February 2017 exceedances are **bold**.
-- = PAL or ES not established
NPD = Not previously detected

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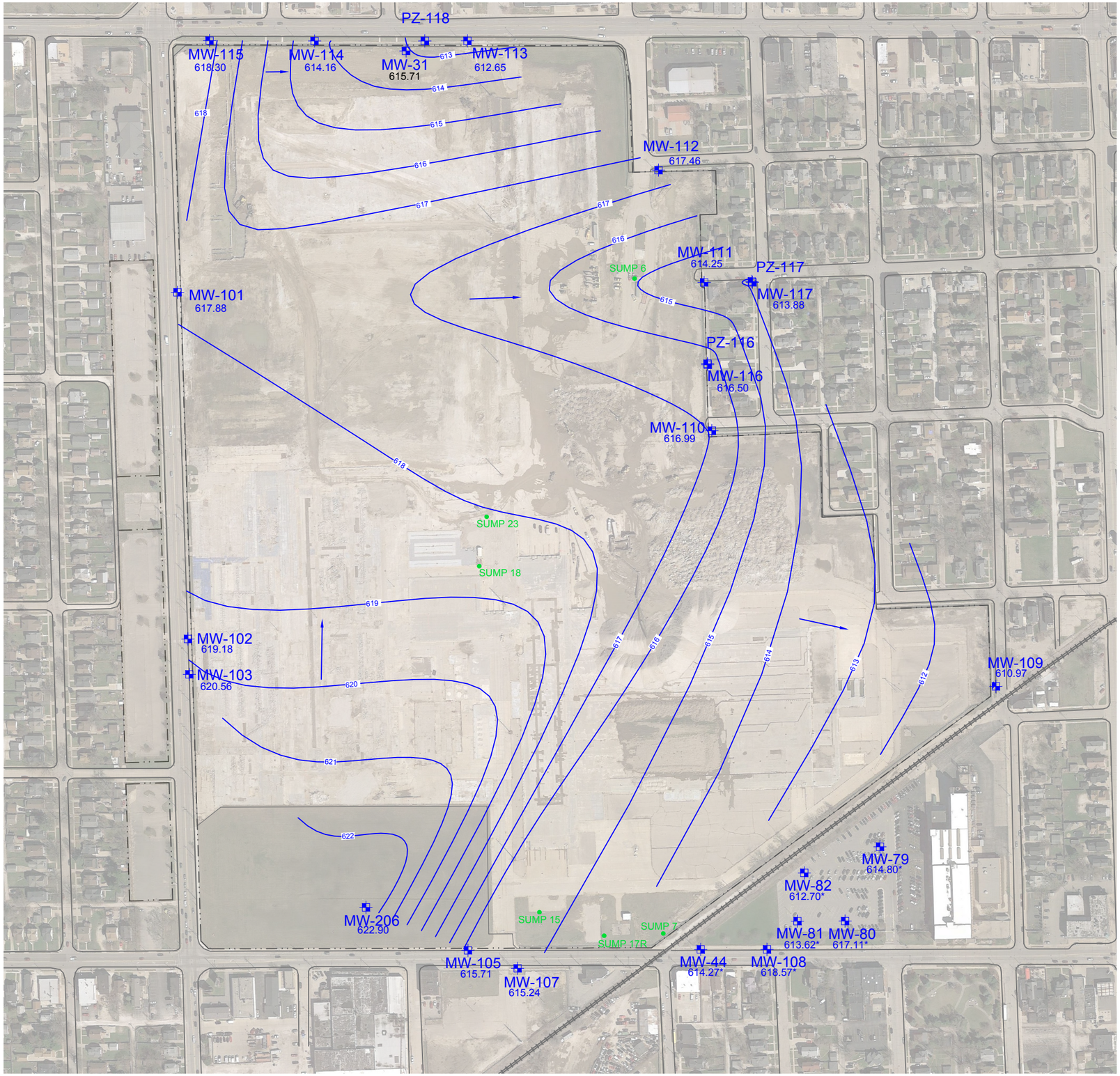
MONITORING WELL LOCATION MAP
KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	11/1/2018
Checked:	SAE	11/1/12018
Approved:	LLA	11/1/2018
PROJECT NUMBER	60485212	
FIGURE NUMBER	1	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- PERIMETER MONITORING WELL LOCATIONS
- 617 — WATER TABLE CONTOURS

WELLS LOCATED SOUTHEAST OF THE RAILROAD TRACKS (SOUTHEAST OF KEP) ARE UNDER THE INFLUANCE OF THE SOUTHERN GROUNDWATER RECOVERY SYSTEM AND ARE NOT INCLUDED IN THE CONTOURS BECAUSE WATER LEVELS ADJACENT TO THE RECOVERY SYSTEM WERE NOT MEASURED.

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. MW-31 NOT USED FOR CONTOUR MAP

N

0' 300' 600'

SCALE

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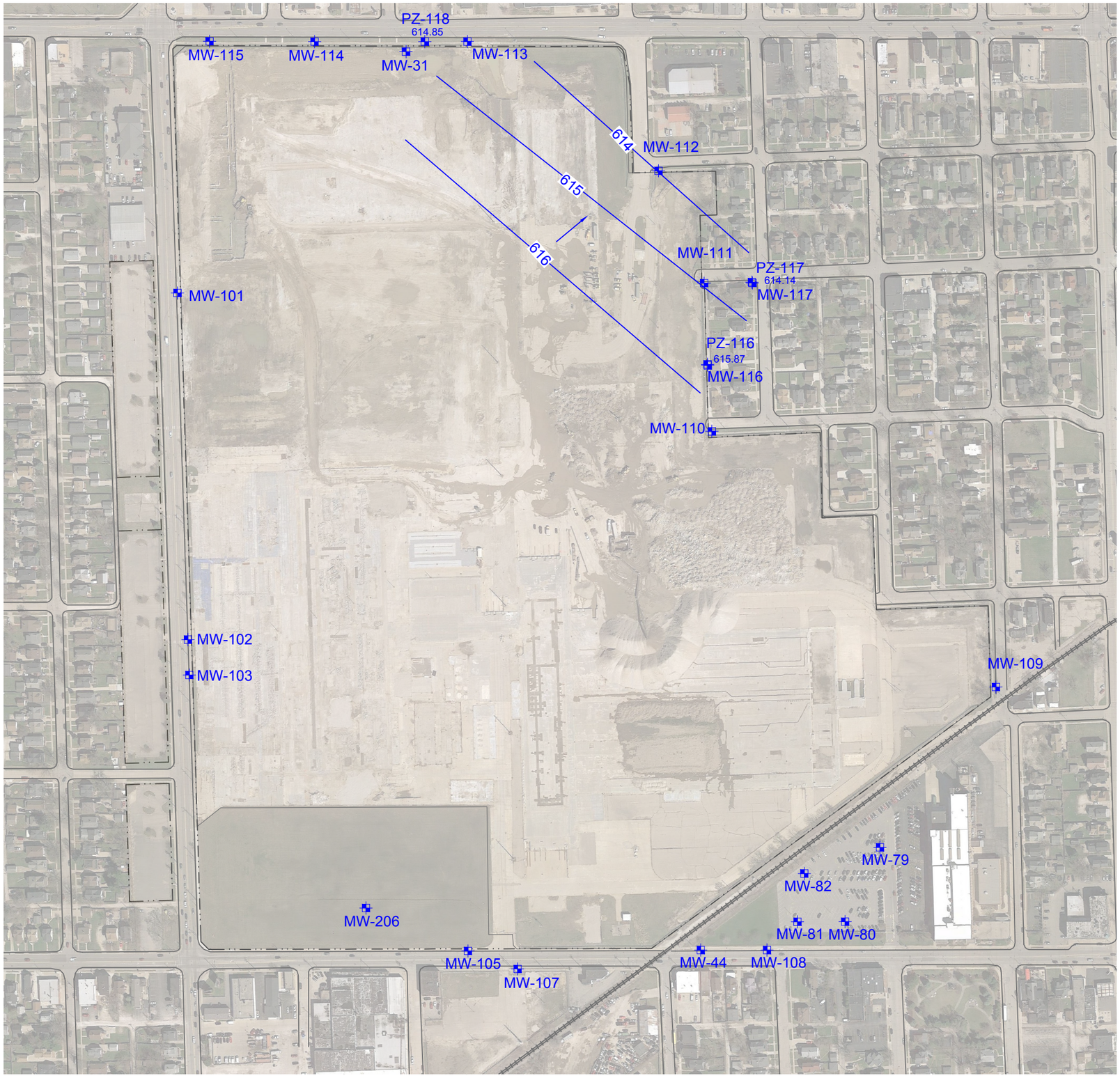
POTENTIOMETRIC SURFACE PERIMETER WATER TABLE MONITORING WELLS - OCTOBER 2018

KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	10/29/2018
Checked:	SAE	10/29/2018
Approved:	LLA	10/29/2018
PROJECT NUMBER	60485212	
FIGURE NUMBER	2	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- PERIMETER PIEZOMETER LOCATIONS
- 617 WATER TABLE CONTOURS

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.

0' 300' 600'

SCALE

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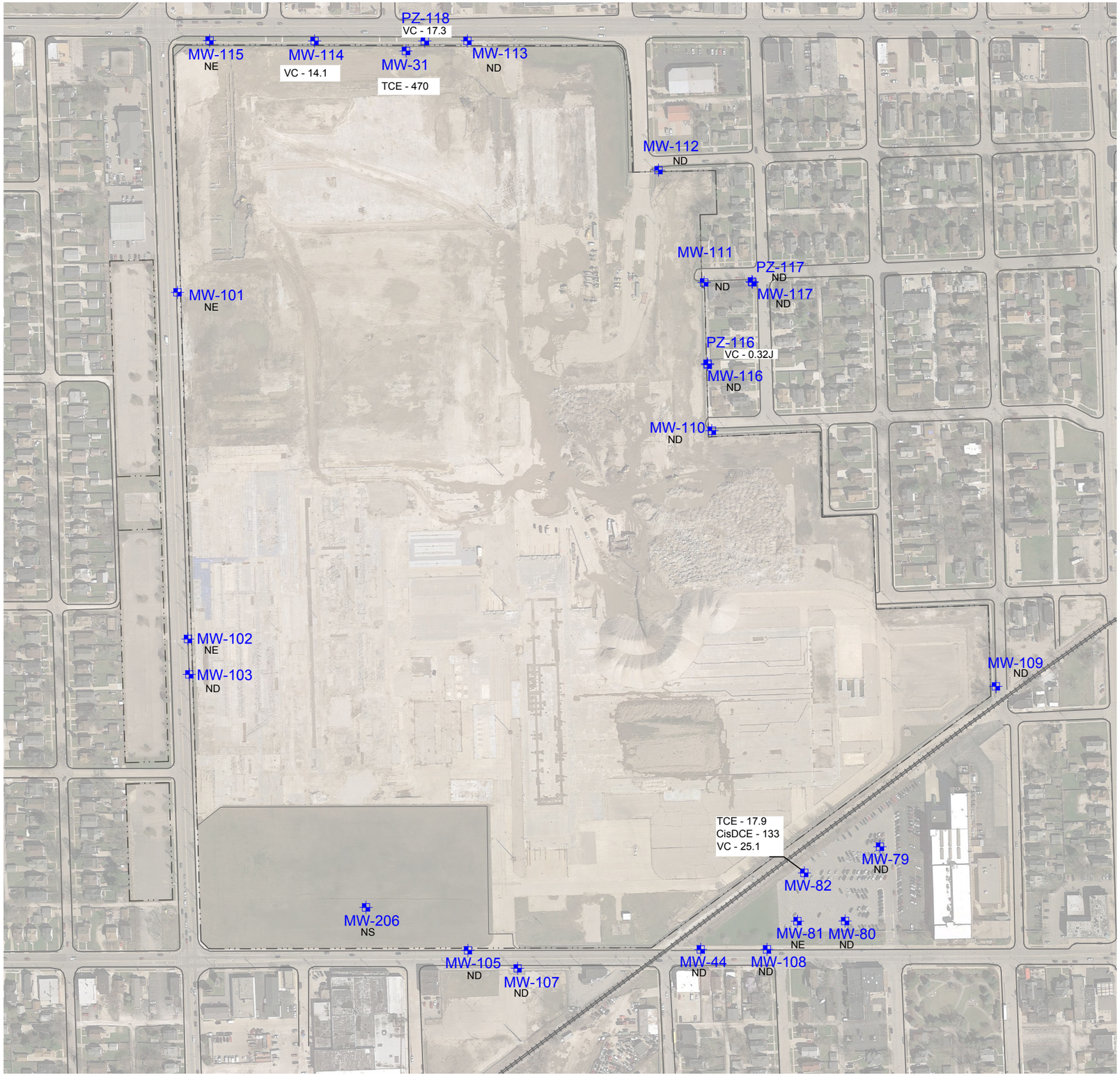
POTENTIOMETRIC SURFACE PERIMETER PIEZOMETERS - OCTOBER 2018

KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	10/29/2018
Checked:	SAE	10/29/2018
Approved:	LLA	10/29/2018
PROJECT NUMBER	60485212	
FIGURE NUMBER	3	



LEGEND

- APPROXIMATE SITE BOUNDARY
- RAILROAD
- EXISTING FENCE
- PERIMETER MONITORING WELL LOCATIONS - results below well name
- **NS** NOT SAMPLED
- **ND** NO DETECT
- **NE** NO ES EXCEEDANCE
- **TCE** TRICHLORETHENE
- **CisDCE** CIS-1,2-DICHLOROETHENE
- **VC** VINYL CHLORIDE
- **J** ESTIMATED CONCENTRATION BELOW REPORTING LIMIT

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 4/6/2017; DOWNLOADED ON 6/5/2017.
2. RESULTS REPORTED IN MICROGRAMS/LITER (UG/L)

N

0' 300' 600'

SCALE

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VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER ABOVE ENFORCEMENT STANDARDS - OCTOBER 2018

KENOSHA ENGINE PLANT
CITY OF KENOSHA
KENOSHA, WISCONSIN

Drawn :	JSM	10/29/2018
Checked:	SAE	10/29/2018
Approved:	LLA	10/29/2018
PROJECT NUMBER	60485212	
FIGURE NUMBER	4	

Figure 5
MW-31
TCE Concentrations and Groundwater Elevations over Time

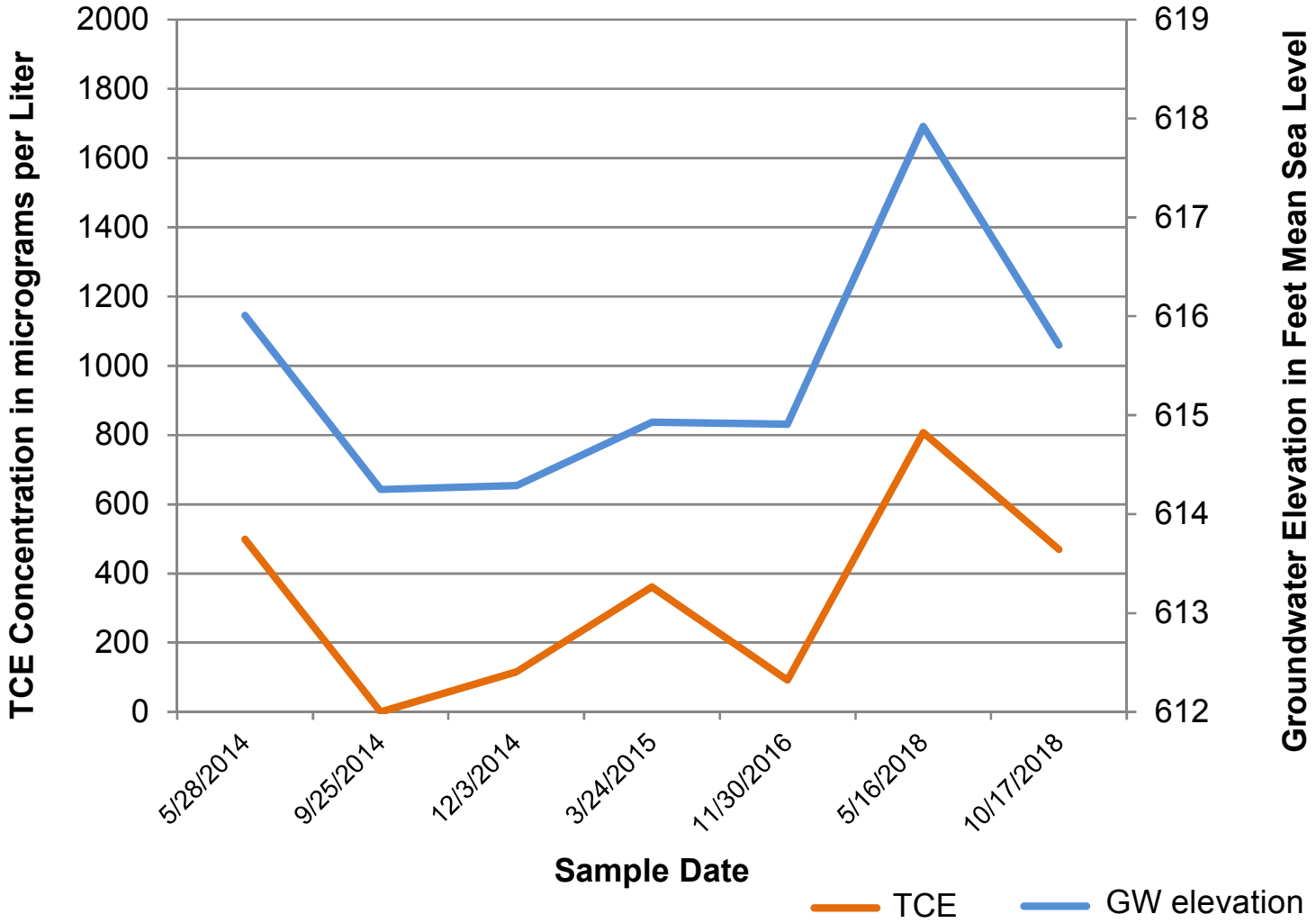


Figure 6
MW-114
Analtye Concentrations and Groundwater Elevations over Time

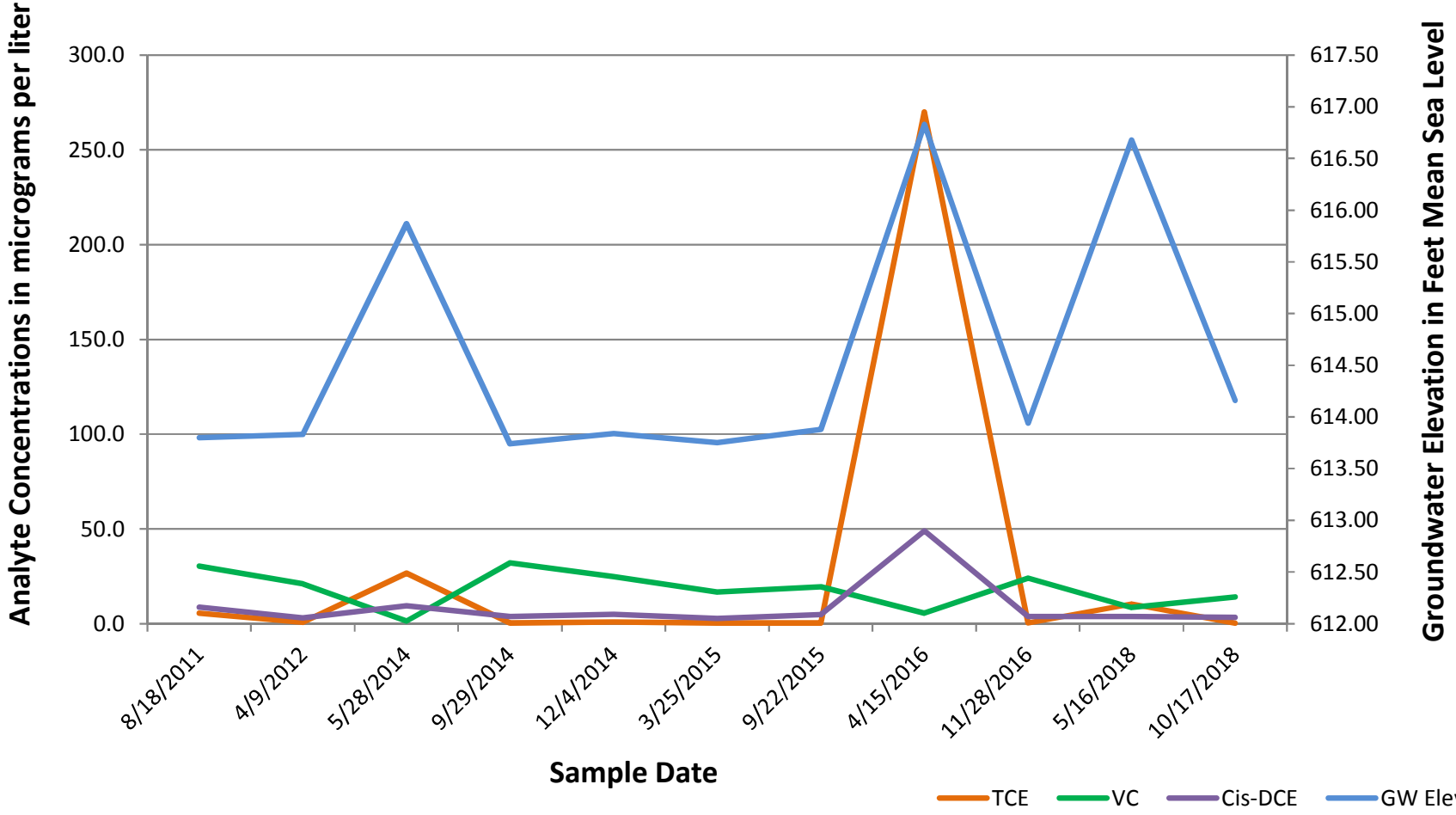


Figure 7

PZ-118

Analyte Concentrations and Groundwater Elevations over Time

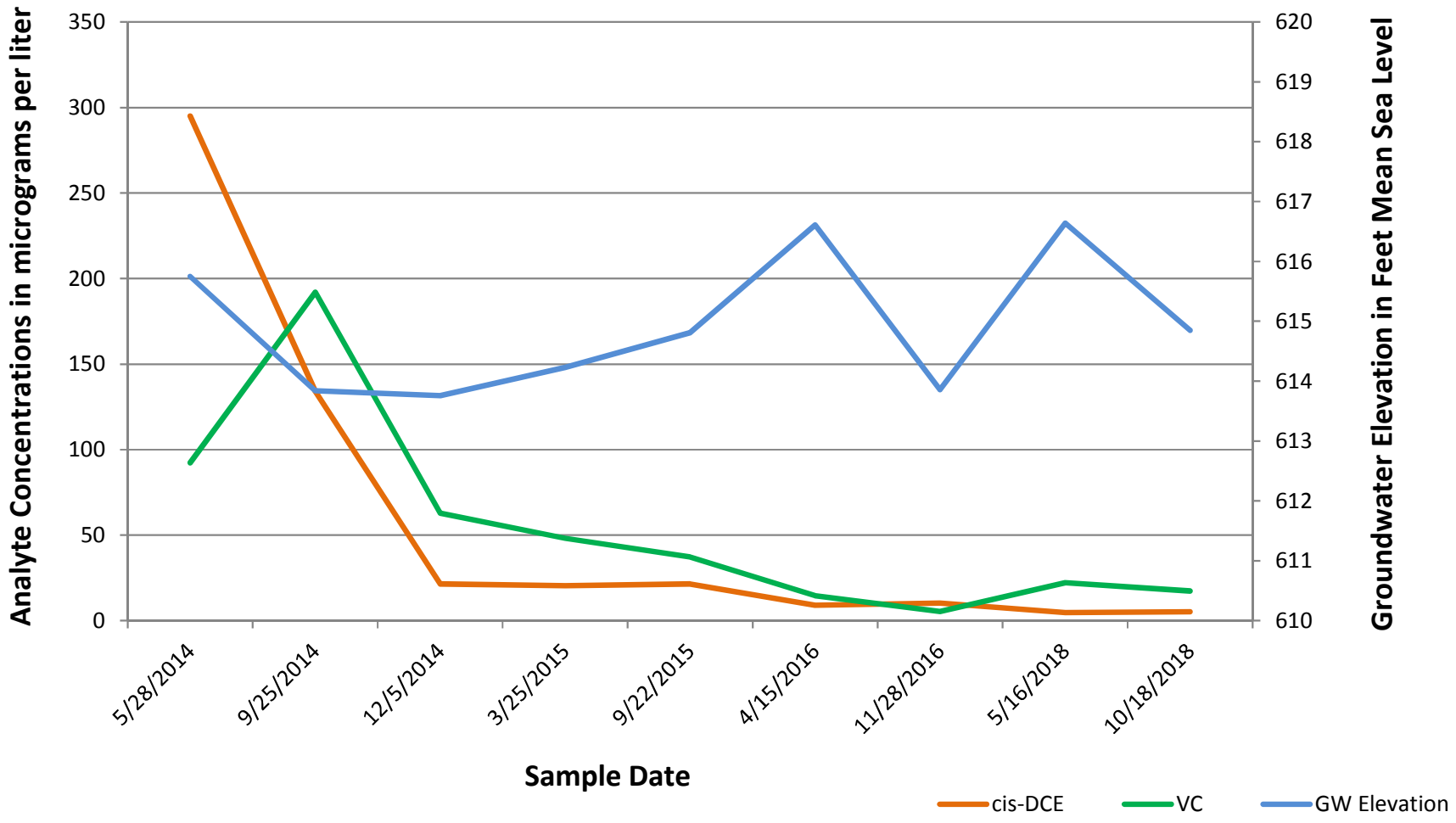
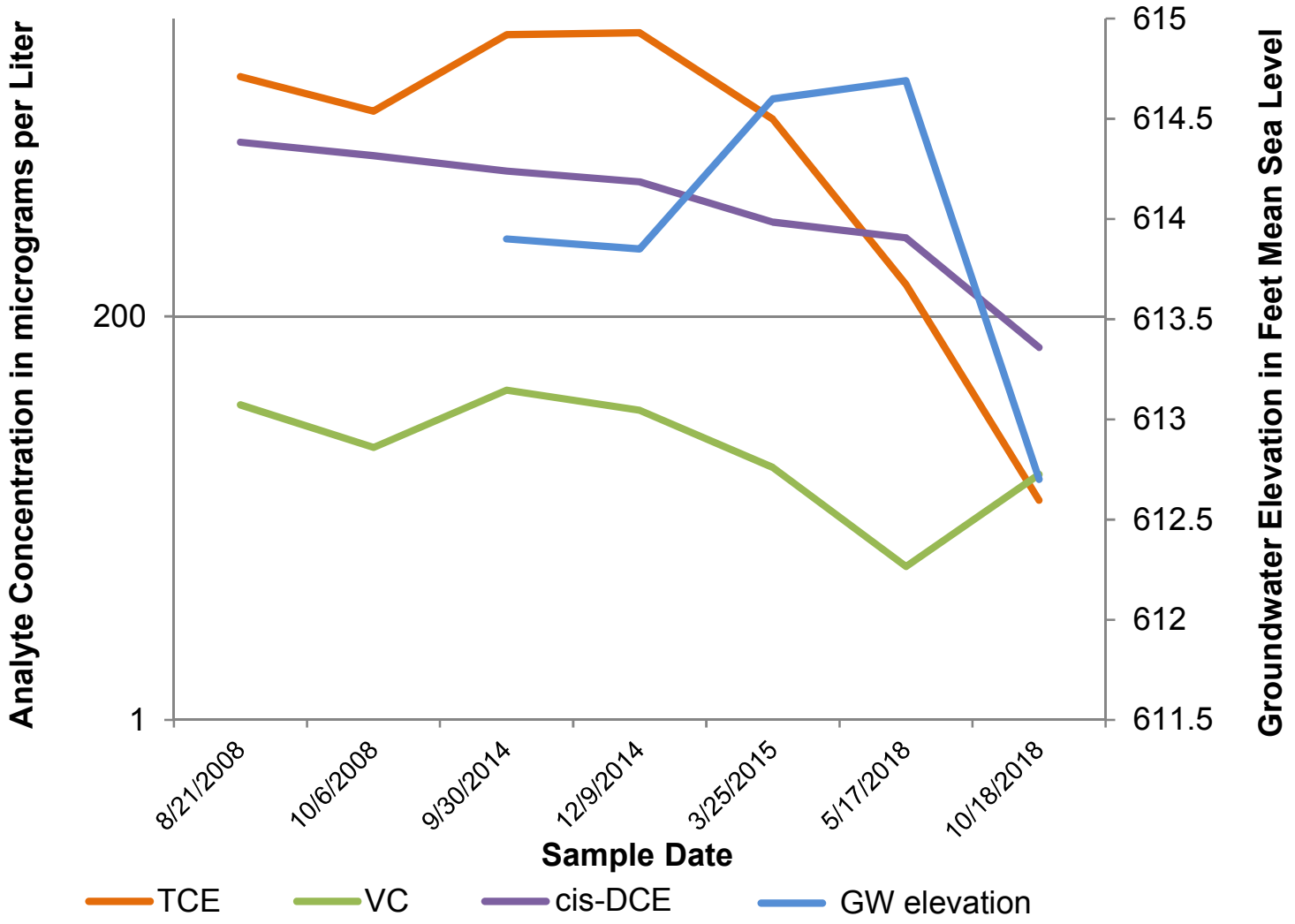


Figure 8
MW-82
Analyte Concentrations and Groundwater Elevations over Time



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

October 24, 2018

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

RE: Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Dear Lanette Altenbach:
Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 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
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Green Bay Certification IDs

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

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SAMPLE SUMMARY

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40178074001	**TRIP BLANK**	Water	10/17/18 08:00	10/19/18 15:20
40178074002	**MW-101**	Water	10/17/18 11:50	10/19/18 15:20
40178074003	**MW-105**	Water	10/17/18 12:45	10/19/18 15:20
40178074004	**MW-107**	Water	10/17/18 14:00	10/19/18 15:20
40178074005	**MW-115**	Water	10/17/18 15:00	10/19/18 15:20
40178074006	**MW-114**	Water	10/17/18 16:30	10/19/18 15:20
40178074007	**MW-114-DUP**	Water	10/17/18 16:30	10/19/18 15:20
40178074008	**MW-102**	Water	10/17/18 13:10	10/19/18 15:20
40178074009	**MW-103**	Water	10/17/18 12:00	10/19/18 15:20
40178074010	**MW-108**	Water	10/17/18 14:30	10/19/18 15:20
40178074011	**MW-108-DUP**	Water	10/17/18 14:30	10/19/18 15:20
40178074012	**MW-31**	Water	10/17/18 15:35	10/19/18 15:20
40178074013	**PZ-118**	Water	10/17/18 16:50	10/19/18 15:20
40178074014	**MW-112**	Water	10/18/18 09:00	10/19/18 15:20
40178074015	**MW-111**	Water	10/18/18 10:00	10/19/18 15:20
40178074016	**MW-116**	Water	10/18/18 10:45	10/19/18 15:20
40178074017	**PZ-116**	Water	10/18/18 11:35	10/19/18 15:20
40178074018	**MW-109**	Water	10/18/18 12:45	10/19/18 15:20
40178074019	**MW-79**	Water	10/18/18 14:10	10/19/18 15:20
40178074020	**MW-81**	Water	10/18/18 15:05	10/19/18 15:20
40178074021	**MW-113**	Water	10/18/18 09:15	10/19/18 15:20
40178074022	**MW-117**	Water	10/18/18 11:15	10/19/18 15:20
40178074023	**PZ-117**	Water	10/18/18 10:25	10/19/18 15:20
40178074024	**MW-110**	Water	10/18/18 12:15	10/19/18 15:20
40178074025	**MW-44**	Water	10/18/18 13:30	10/19/18 15:20
40178074026	**MW-80**	Water	10/18/18 14:40	10/19/18 15:20
40178074027	**MW-82**	Water	10/18/18 15:35	10/19/18 15:20

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SAMPLE ANALYTE COUNT

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40178074001	**TRIP BLANK**	EPA 8260	LAP	63	PASI-G
40178074002	**MW-101**	EPA 8260	LAP	63	PASI-G
40178074003	**MW-105**	EPA 8260	LAP	63	PASI-G
40178074004	**MW-107**	EPA 8260	LAP	63	PASI-G
40178074005	**MW-115**	EPA 8260	LAP	63	PASI-G
40178074006	**MW-114**	EPA 8260	LAP	63	PASI-G
40178074007	**MW-114-DUP**	EPA 8260	LAP	63	PASI-G
40178074008	**MW-102**	EPA 8260	LAP	63	PASI-G
40178074009	**MW-103**	EPA 8260	LAP	63	PASI-G
40178074010	**MW-108**	EPA 8260	LAP	63	PASI-G
40178074011	**MW-108-DUP**	EPA 8260	LAP	63	PASI-G
40178074012	**MW-31**	EPA 8260	LAP	63	PASI-G
40178074013	**PZ-118**	EPA 8260	LAP	63	PASI-G
40178074014	**MW-112**	EPA 8260	LAP	63	PASI-G
40178074015	**MW-111**	EPA 8260	LAP	63	PASI-G
40178074016	**MW-116**	EPA 8260	LAP	63	PASI-G
40178074017	**PZ-116**	EPA 8260	LAP	63	PASI-G
40178074018	**MW-109**	EPA 8260	LAP	63	PASI-G
40178074019	**MW-79**	EPA 8260	LAP	63	PASI-G
40178074020	**MW-81**	EPA 8260	LAP	63	PASI-G
40178074021	**MW-113**	EPA 8260	LAP	63	PASI-G
40178074022	**MW-117**	EPA 8260	LAP	63	PASI-G
40178074023	**PZ-117**	EPA 8260	LAP	63	PASI-G
40178074024	**MW-110**	EPA 8260	HNW	63	PASI-G
40178074025	**MW-44**	EPA 8260	HNW	63	PASI-G
40178074026	**MW-80**	EPA 8260	HNW	63	PASI-G
40178074027	**MW-82**	EPA 8260	HNW	63	PASI-G

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SUMMARY OF DETECTION

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40178074002	**MW-101**					
EPA 8260	1,1-Dichloroethane	0.35J	ug/L	1.0	10/23/18 18:59	
EPA 8260	1,1,1-Trichloroethane	0.82J	ug/L	1.0	10/23/18 18:59	
40178074005	**MW-115**					
EPA 8260	1,1,1-Trichloroethane	0.72J	ug/L	1.0	10/23/18 20:06	
40178074006	**MW-114**					
EPA 8260	cis-1,2-Dichloroethene	3.3	ug/L	1.0	10/24/18 00:51	
EPA 8260	Vinyl chloride	14.1	ug/L	1.0	10/24/18 00:51	
40178074007	**MW-114-DUP**					
EPA 8260	cis-1,2-Dichloroethene	3.3	ug/L	1.0	10/24/18 01:13	
EPA 8260	Vinyl chloride	14.1	ug/L	1.0	10/24/18 01:13	
40178074008	**MW-102**					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	10/23/18 20:28	
40178074012	**MW-31**					
EPA 8260	1,1-Dichloroethene	1.3J	ug/L	4.0	10/24/18 09:00	
EPA 8260	cis-1,2-Dichloroethene	17.9	ug/L	4.0	10/24/18 09:00	
EPA 8260	trans-1,2-Dichloroethene	9.6J	ug/L	14.5	10/24/18 09:00	
EPA 8260	Trichloroethene	470	ug/L	4.0	10/24/18 09:00	
40178074013	**PZ-118**					
EPA 8260	cis-1,2-Dichloroethene	5.2	ug/L	1.0	10/23/18 21:56	
EPA 8260	Vinyl chloride	17.3	ug/L	1.0	10/23/18 21:56	
40178074017	**PZ-116**					
EPA 8260	Vinyl chloride	0.32J	ug/L	1.0	10/23/18 23:23	
40178074020	**MW-81**					
EPA 8260	cis-1,2-Dichloroethene	0.89J	ug/L	1.0	10/24/18 00:29	
40178074027	**MW-82**					
EPA 8260	cis-1,2-Dichloroethene	133	ug/L	1.0	10/23/18 18:01	
EPA 8260	trans-1,2-Dichloroethene	4.0	ug/L	3.6	10/23/18 18:01	
EPA 8260	Trichloroethene	17.9	ug/L	1.0	10/23/18 18:01	
EPA 8260	Vinyl chloride	25.1	ug/L	1.0	10/23/18 18:01	

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: TRIP BLANK **Lab ID: 40178074001** Collected: 10/17/18 08:00 Received: 10/19/18 15:20 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		10/23/18 18:37	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:37	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 18:37	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 18:37	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 18:37	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 18:37	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:37	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 18:37	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 18:37	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 18:37	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:37	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 18:37	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 18:37	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 18:37	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 18:37	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 18:37	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 18:37	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 18:37	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 18:37	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 18:37	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:37	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 18:37	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 18:37	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 18:37	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:37	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 18:37	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:37	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:37	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 18:37	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 18:37	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 18:37	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 18:37	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 18:37	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 18:37	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 18:37	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 18:37	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 18:37	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 18:37	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 18:37	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 18:37	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 18:37	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 18:37	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 18:37	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 18:37	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 18:37	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:37	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: TRIP BLANK **Lab ID: 40178074001** Collected: 10/17/18 08:00 Received: 10/19/18 15:20 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		10/23/18 18:37	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 18:37	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 18:37	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 18:37	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 18:37	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:37	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 18:37	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 18:37	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 18:37	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 18:37	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 18:37	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 18:37	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 18:37	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 18:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/23/18 18:37	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 18:37	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/18 18:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-101 **Lab ID: 40178074002** Collected: 10/17/18 11:50 Received: 10/19/18 15:20 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		10/23/18 18:59	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:59	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 18:59	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 18:59	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 18:59	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 18:59	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:59	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 18:59	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 18:59	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 18:59	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:59	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 18:59	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 18:59	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 18:59	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 18:59	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 18:59	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 18:59	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 18:59	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 18:59	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 18:59	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:59	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 18:59	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 18:59	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 18:59	75-71-8	
1,1-Dichloroethane	**0.35J**	ug/L	1.0	0.27	1		10/23/18 18:59	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 18:59	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:59	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:59	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 18:59	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 18:59	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 18:59	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 18:59	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 18:59	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 18:59	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 18:59	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 18:59	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 18:59	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 18:59	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 18:59	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 18:59	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 18:59	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 18:59	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 18:59	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 18:59	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 18:59	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:59	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-101 **Lab ID: 40178074002** Collected: 10/17/18 11:50 Received: 10/19/18 15:20 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		10/23/18 18:59	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 18:59	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 18:59	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 18:59	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 18:59	120-82-1	
1,1,1-Trichloroethane	**0.82J**	ug/L	1.0	0.24	1		10/23/18 18:59	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 18:59	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 18:59	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 18:59	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 18:59	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 18:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 18:59	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 18:59	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 18:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/23/18 18:59	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		10/23/18 18:59	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/23/18 18:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-105 **Lab ID: 40178074003** Collected: 10/17/18 12:45 Received: 10/19/18 15:20 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		10/23/18 19:21	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 19:21	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 19:21	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 19:21	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 19:21	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 19:21	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 19:21	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 19:21	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 19:21	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 19:21	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 19:21	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 19:21	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 19:21	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 19:21	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 19:21	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 19:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 19:21	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 19:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 19:21	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 19:21	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 19:21	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 19:21	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 19:21	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 19:21	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 19:21	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 19:21	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 19:21	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 19:21	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 19:21	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 19:21	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 19:21	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 19:21	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 19:21	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 19:21	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 19:21	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 19:21	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 19:21	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 19:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 19:21	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 19:21	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 19:21	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 19:21	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 19:21	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 19:21	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 19:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 19:21	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-105 **Lab ID: 40178074003** Collected: 10/17/18 12:45 Received: 10/19/18 15:20 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		10/23/18 19:21	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 19:21	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 19:21	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 19:21	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 19:21	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 19:21	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 19:21	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 19:21	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 19:21	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 19:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 19:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 19:21	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 19:21	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 19:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/23/18 19:21	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		10/23/18 19:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/18 19:21	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-107 **Lab ID: 40178074004** Collected: 10/17/18 14:00 Received: 10/19/18 15:20 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		10/23/18 19:43	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 19:43	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 19:43	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 19:43	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 19:43	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 19:43	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 19:43	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 19:43	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 19:43	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 19:43	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 19:43	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 19:43	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 19:43	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 19:43	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 19:43	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 19:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 19:43	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 19:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 19:43	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 19:43	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 19:43	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 19:43	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 19:43	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 19:43	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 19:43	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 19:43	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 19:43	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 19:43	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 19:43	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 19:43	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 19:43	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 19:43	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 19:43	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 19:43	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 19:43	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 19:43	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 19:43	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 19:43	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 19:43	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 19:43	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 19:43	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 19:43	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 19:43	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 19:43	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 19:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 19:43	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-107 **Lab ID: 40178074004** Collected: 10/17/18 14:00 Received: 10/19/18 15:20 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		10/23/18 19:43	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 19:43	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 19:43	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 19:43	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 19:43	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 19:43	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 19:43	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 19:43	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 19:43	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 19:43	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 19:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 19:43	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 19:43	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 19:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		10/23/18 19:43	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/23/18 19:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/18 19:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-115 **Lab ID: 40178074005** Collected: 10/17/18 15:00 Received: 10/19/18 15:20 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		10/23/18 20:06	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:06	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 20:06	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 20:06	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 20:06	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 20:06	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:06	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 20:06	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 20:06	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 20:06	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:06	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 20:06	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 20:06	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 20:06	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 20:06	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 20:06	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 20:06	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 20:06	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 20:06	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 20:06	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:06	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 20:06	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 20:06	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 20:06	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:06	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 20:06	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:06	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:06	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 20:06	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 20:06	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 20:06	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 20:06	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 20:06	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 20:06	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 20:06	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 20:06	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 20:06	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 20:06	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 20:06	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 20:06	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 20:06	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 20:06	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 20:06	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 20:06	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 20:06	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:06	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-115 **Lab ID: 40178074005** Collected: 10/17/18 15:00 Received: 10/19/18 15:20 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		10/23/18 20:06	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 20:06	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 20:06	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 20:06	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 20:06	120-82-1	
1,1,1-Trichloroethane	**0.72J**	ug/L	1.0	0.24	1		10/23/18 20:06	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 20:06	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 20:06	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 20:06	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 20:06	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 20:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 20:06	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 20:06	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 20:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/23/18 20:06	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 20:06	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		10/23/18 20:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-114 **Lab ID: 40178074006** Collected: 10/17/18 16:30 Received: 10/19/18 15:20 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		10/24/18 00:51	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:51	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/24/18 00:51	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/24/18 00:51	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/24/18 00:51	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/24/18 00:51	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:51	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/24/18 00:51	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/24/18 00:51	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/24/18 00:51	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:51	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/24/18 00:51	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/24/18 00:51	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/24/18 00:51	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/24/18 00:51	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/24/18 00:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/24/18 00:51	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/24/18 00:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/24/18 00:51	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/24/18 00:51	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:51	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/24/18 00:51	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/24/18 00:51	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/24/18 00:51	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:51	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 00:51	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:51	75-35-4	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	0.27	1		10/24/18 00:51	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/24/18 00:51	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 00:51	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/24/18 00:51	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/24/18 00:51	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/24/18 00:51	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/24/18 00:51	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/24/18 00:51	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/24/18 00:51	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/24/18 00:51	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 00:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/24/18 00:51	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/24/18 00:51	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/24/18 00:51	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/24/18 00:51	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 00:51	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/24/18 00:51	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/24/18 00:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:51	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-114 **Lab ID: 40178074006** Collected: 10/17/18 16:30 Received: 10/19/18 15:20 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		10/24/18 00:51	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/24/18 00:51	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/24/18 00:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/24/18 00:51	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/24/18 00:51	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:51	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/24/18 00:51	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/24/18 00:51	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/24/18 00:51	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/24/18 00:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/24/18 00:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/24/18 00:51	108-67-8	
Vinyl chloride	**14.1**	ug/L	1.0	0.17	1		10/24/18 00:51	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/24/18 00:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/24/18 00:51	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/24/18 00:51	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/24/18 00:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-114-DUP **Lab ID: 40178074007** Collected: 10/17/18 16:30 Received: 10/19/18 15:20 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		10/24/18 01:13	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 01:13	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/24/18 01:13	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/24/18 01:13	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/24/18 01:13	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/24/18 01:13	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 01:13	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/24/18 01:13	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/24/18 01:13	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/24/18 01:13	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 01:13	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/24/18 01:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/24/18 01:13	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/24/18 01:13	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/24/18 01:13	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/24/18 01:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/24/18 01:13	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/24/18 01:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/24/18 01:13	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/24/18 01:13	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 01:13	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/24/18 01:13	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/24/18 01:13	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/24/18 01:13	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 01:13	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 01:13	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 01:13	75-35-4	
cis-1,2-Dichloroethene	**3.3**	ug/L	1.0	0.27	1		10/24/18 01:13	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/24/18 01:13	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 01:13	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/24/18 01:13	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/24/18 01:13	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/24/18 01:13	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/24/18 01:13	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/24/18 01:13	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/24/18 01:13	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/24/18 01:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 01:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/24/18 01:13	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/24/18 01:13	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/24/18 01:13	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/24/18 01:13	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 01:13	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/24/18 01:13	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/24/18 01:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 01:13	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-114-DUP **Lab ID: 40178074007** Collected: 10/17/18 16:30 Received: 10/19/18 15:20 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		10/24/18 01:13	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/24/18 01:13	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/24/18 01:13	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/24/18 01:13	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/24/18 01:13	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/24/18 01:13	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/24/18 01:13	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/24/18 01:13	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/24/18 01:13	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/24/18 01:13	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/24/18 01:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/24/18 01:13	108-67-8	
Vinyl chloride	**14.1**	ug/L	1.0	0.17	1		10/24/18 01:13	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/24/18 01:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/24/18 01:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/24/18 01:13	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/24/18 01:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-102 **Lab ID: 40178074008** Collected: 10/17/18 13:10 Received: 10/19/18 15:20 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		10/23/18 20:28	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:28	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 20:28	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 20:28	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 20:28	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 20:28	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:28	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 20:28	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 20:28	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 20:28	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:28	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 20:28	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 20:28	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 20:28	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 20:28	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 20:28	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 20:28	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 20:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 20:28	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 20:28	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:28	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 20:28	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 20:28	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 20:28	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:28	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 20:28	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:28	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:28	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 20:28	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 20:28	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 20:28	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 20:28	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 20:28	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 20:28	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 20:28	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 20:28	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 20:28	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 20:28	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 20:28	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 20:28	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 20:28	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 20:28	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 20:28	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 20:28	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 20:28	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:28	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-102 **Lab ID: 40178074008** Collected: 10/17/18 13:10 Received: 10/19/18 15:20 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		10/23/18 20:28	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 20:28	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 20:28	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 20:28	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 20:28	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:28	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 20:28	79-00-5	
Trichloroethene	**1.7**	ug/L	1.0	0.26	1		10/23/18 20:28	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 20:28	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 20:28	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 20:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 20:28	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 20:28	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 20:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		10/23/18 20:28	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 20:28	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		10/23/18 20:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-103 **Lab ID: 40178074009** Collected: 10/17/18 12:00 Received: 10/19/18 15:20 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		10/23/18 20:50	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:50	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 20:50	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 20:50	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 20:50	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 20:50	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:50	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 20:50	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 20:50	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 20:50	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:50	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 20:50	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 20:50	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 20:50	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 20:50	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 20:50	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 20:50	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 20:50	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 20:50	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 20:50	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 20:50	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 20:50	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 20:50	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 20:50	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:50	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 20:50	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:50	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:50	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 20:50	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 20:50	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 20:50	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 20:50	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 20:50	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 20:50	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 20:50	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 20:50	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 20:50	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 20:50	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 20:50	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 20:50	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 20:50	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 20:50	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 20:50	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 20:50	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 20:50	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 20:50	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-103 **Lab ID: 40178074009** Collected: 10/17/18 12:00 Received: 10/19/18 15:20 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		10/23/18 20:50	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 20:50	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 20:50	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 20:50	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 20:50	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 20:50	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 20:50	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 20:50	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 20:50	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 20:50	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 20:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 20:50	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 20:50	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 20:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		10/23/18 20:50	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 20:50	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/23/18 20:50	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-108 **Lab ID: 40178074010** Collected: 10/17/18 14:30 Received: 10/19/18 15:20 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		10/23/18 21:12	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:12	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 21:12	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 21:12	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 21:12	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 21:12	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:12	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 21:12	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 21:12	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 21:12	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:12	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 21:12	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 21:12	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 21:12	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 21:12	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 21:12	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 21:12	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 21:12	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 21:12	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 21:12	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:12	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 21:12	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 21:12	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 21:12	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:12	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 21:12	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:12	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:12	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 21:12	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 21:12	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 21:12	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 21:12	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 21:12	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 21:12	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 21:12	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 21:12	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 21:12	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 21:12	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 21:12	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 21:12	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 21:12	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 21:12	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 21:12	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 21:12	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:12	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-108 **Lab ID: 40178074010** Collected: 10/17/18 14:30 Received: 10/19/18 15:20 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		10/23/18 21:12	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 21:12	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 21:12	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 21:12	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 21:12	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:12	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 21:12	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 21:12	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 21:12	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 21:12	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 21:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 21:12	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 21:12	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 21:12	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/18 21:12	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/23/18 21:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/18 21:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-108-DUP **Lab ID: 40178074011** Collected: 10/17/18 14:30 Received: 10/19/18 15:20 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		10/23/18 21:33	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:33	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 21:33	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 21:33	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 21:33	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 21:33	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:33	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 21:33	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 21:33	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 21:33	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:33	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 21:33	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 21:33	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 21:33	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 21:33	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 21:33	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 21:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 21:33	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 21:33	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:33	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 21:33	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 21:33	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 21:33	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:33	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 21:33	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:33	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:33	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 21:33	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 21:33	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 21:33	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 21:33	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 21:33	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 21:33	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 21:33	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 21:33	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 21:33	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 21:33	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 21:33	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 21:33	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 21:33	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 21:33	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 21:33	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 21:33	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:33	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-108-DUP **Lab ID: 40178074011** Collected: 10/17/18 14:30 Received: 10/19/18 15:20 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		10/23/18 21:33	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 21:33	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 21:33	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 21:33	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 21:33	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:33	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 21:33	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 21:33	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 21:33	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 21:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 21:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 21:33	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 21:33	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 21:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/18 21:33	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 21:33	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		10/23/18 21:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-31 **Lab ID: 40178074012** Collected: 10/17/18 15:35 Received: 10/19/18 15:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.99**	ug/L	4.0	0.99	4		10/24/18 09:00	71-43-2	
Bromobenzene	**<0.96**	ug/L	4.0	0.96	4		10/24/18 09:00	108-86-1	
Bromochloromethane	**<1.4**	ug/L	20.0	1.4	4		10/24/18 09:00	74-97-5	
Bromodichloromethane	**<1.5**	ug/L	4.8	1.5	4		10/24/18 09:00	75-27-4	
Bromoform	**<15.9**	ug/L	53.0	15.9	4		10/24/18 09:00	75-25-2	
Bromomethane	**<3.9**	ug/L	20.0	3.9	4		10/24/18 09:00	74-83-9	
n-Butylbenzene	**<2.8**	ug/L	9.4	2.8	4		10/24/18 09:00	104-51-8	
sec-Butylbenzene	**<3.4**	ug/L	20.0	3.4	4		10/24/18 09:00	135-98-8	
tert-Butylbenzene	**<1.2**	ug/L	4.1	1.2	4		10/24/18 09:00	98-06-6	
Carbon tetrachloride	**<0.66**	ug/L	4.0	0.66	4		10/24/18 09:00	56-23-5	
Chlorobenzene	**<2.8**	ug/L	9.5	2.8	4		10/24/18 09:00	108-90-7	
Chloroethane	**<5.4**	ug/L	20.0	5.4	4		10/24/18 09:00	75-00-3	
Chloroform	**<5.1**	ug/L	20.0	5.1	4		10/24/18 09:00	67-66-3	
Chloromethane	**<8.8**	ug/L	29.2	8.8	4		10/24/18 09:00	74-87-3	
2-Chlorotoluene	**<3.7**	ug/L	20.0	3.7	4		10/24/18 09:00	95-49-8	
4-Chlorotoluene	**<3.0**	ug/L	10.1	3.0	4		10/24/18 09:00	106-43-4	
1,2-Dibromo-3-chloropropane	**<7.1**	ug/L	23.5	7.1	4		10/24/18 09:00	96-12-8	
Dibromochloromethane	**<10.4**	ug/L	34.7	10.4	4		10/24/18 09:00	124-48-1	
1,2-Dibromoethane (EDB)	**<3.3**	ug/L	11.1	3.3	4		10/24/18 09:00	106-93-4	
Dibromomethane	**<3.7**	ug/L	12.5	3.7	4		10/24/18 09:00	74-95-3	
1,2-Dichlorobenzene	**<2.8**	ug/L	9.4	2.8	4		10/24/18 09:00	95-50-1	
1,3-Dichlorobenzene	**<2.5**	ug/L	8.4	2.5	4		10/24/18 09:00	541-73-1	
1,4-Dichlorobenzene	**<3.8**	ug/L	12.6	3.8	4		10/24/18 09:00	106-46-7	
Dichlorodifluoromethane	**<2.0**	ug/L	20.0	2.0	4		10/24/18 09:00	75-71-8	
1,1-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		10/24/18 09:00	75-34-3	
1,2-Dichloroethane	**<1.1**	ug/L	4.0	1.1	4		10/24/18 09:00	107-06-2	
1,1-Dichloroethene	**1.3J**	ug/L	4.0	0.98	4		10/24/18 09:00	75-35-4	
cis-1,2-Dichloroethene	**17.9**	ug/L	4.0	1.1	4		10/24/18 09:00	156-59-2	
trans-1,2-Dichloroethene	**9.6J**	ug/L	14.5	4.4	4		10/24/18 09:00	156-60-5	
1,2-Dichloropropane	**<1.1**	ug/L	4.0	1.1	4		10/24/18 09:00	78-87-5	
1,3-Dichloropropane	**<3.3**	ug/L	11.0	3.3	4		10/24/18 09:00	142-28-9	
2,2-Dichloropropane	**<9.1**	ug/L	30.2	9.1	4		10/24/18 09:00	594-20-7	
1,1-Dichloropropene	**<2.2**	ug/L	7.2	2.2	4		10/24/18 09:00	563-58-6	
cis-1,3-Dichloropropene	**<14.5**	ug/L	48.4	14.5	4		10/24/18 09:00	10061-01-5	
trans-1,3-Dichloropropene	**<17.5**	ug/L	58.3	17.5	4		10/24/18 09:00	10061-02-6	
Diisopropyl ether	**<7.6**	ug/L	25.2	7.6	4		10/24/18 09:00	108-20-3	
Ethylbenzene	**<0.87**	ug/L	4.0	0.87	4		10/24/18 09:00	100-41-4	
Hexachloro-1,3-butadiene	**<4.7**	ug/L	20.0	4.7	4		10/24/18 09:00	87-68-3	
Isopropylbenzene (Cumene)	**<1.6**	ug/L	20.0	1.6	4		10/24/18 09:00	98-82-8	
p-Isopropyltoluene	**<3.2**	ug/L	10.7	3.2	4		10/24/18 09:00	99-87-6	
Methylene Chloride	**<2.3**	ug/L	20.0	2.3	4		10/24/18 09:00	75-09-2	
Methyl-tert-butyl ether	**<5.0**	ug/L	16.6	5.0	4		10/24/18 09:00	1634-04-4	
Naphthalene	**<4.7**	ug/L	20.0	4.7	4		10/24/18 09:00	91-20-3	
n-Propylbenzene	**<3.2**	ug/L	20.0	3.2	4		10/24/18 09:00	103-65-1	
Styrene	**<1.9**	ug/L	6.2	1.9	4		10/24/18 09:00	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		10/24/18 09:00	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-31 **Lab ID: 40178074012** Collected: 10/17/18 15:35 Received: 10/19/18 15:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.1**	ug/L	4.0	1.1	4		10/24/18 09:00	79-34-5	
Tetrachloroethene	**<1.3**	ug/L	4.4	1.3	4		10/24/18 09:00	127-18-4	
Toluene	**<0.69**	ug/L	20.0	0.69	4		10/24/18 09:00	108-88-3	
1,2,3-Trichlorobenzene	**<2.5**	ug/L	20.0	2.5	4		10/24/18 09:00	87-61-6	
1,2,4-Trichlorobenzene	**<3.8**	ug/L	20.0	3.8	4		10/24/18 09:00	120-82-1	
1,1,1-Trichloroethane	**<0.98**	ug/L	4.0	0.98	4		10/24/18 09:00	71-55-6	
1,1,2-Trichloroethane	**<2.2**	ug/L	20.0	2.2	4		10/24/18 09:00	79-00-5	
Trichloroethene	**470**	ug/L	4.0	1.0	4		10/24/18 09:00	79-01-6	
Trichlorofluoromethane	**<0.86**	ug/L	4.0	0.86	4		10/24/18 09:00	75-69-4	
1,2,3-Trichloropropane	**<2.4**	ug/L	20.0	2.4	4		10/24/18 09:00	96-18-4	
1,2,4-Trimethylbenzene	**<3.4**	ug/L	11.2	3.4	4		10/24/18 09:00	95-63-6	
1,3,5-Trimethylbenzene	**<3.5**	ug/L	11.6	3.5	4		10/24/18 09:00	108-67-8	
Vinyl chloride	**<0.70**	ug/L	4.0	0.70	4		10/24/18 09:00	75-01-4	
Xylene (Total)	**<6.0**	ug/L	12.0	6.0	4		10/24/18 09:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		4		10/24/18 09:00	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		4		10/24/18 09:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		4		10/24/18 09:00	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: PZ-118 **Lab ID: 40178074013** Collected: 10/17/18 16:50 Received: 10/19/18 15:20 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		10/23/18 21:56	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:56	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 21:56	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 21:56	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 21:56	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 21:56	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:56	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 21:56	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 21:56	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 21:56	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:56	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 21:56	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 21:56	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 21:56	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 21:56	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 21:56	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 21:56	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 21:56	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 21:56	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 21:56	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 21:56	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 21:56	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 21:56	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 21:56	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:56	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 21:56	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:56	75-35-4	
cis-1,2-Dichloroethene	**5.2**	ug/L	1.0	0.27	1		10/23/18 21:56	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 21:56	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 21:56	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 21:56	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 21:56	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 21:56	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 21:56	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 21:56	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 21:56	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 21:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 21:56	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 21:56	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 21:56	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 21:56	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 21:56	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 21:56	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 21:56	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 21:56	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 21:56	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: PZ-118 **Lab ID: 40178074013** Collected: 10/17/18 16:50 Received: 10/19/18 15:20 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		10/23/18 21:56	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 21:56	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 21:56	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 21:56	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 21:56	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 21:56	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 21:56	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 21:56	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 21:56	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 21:56	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 21:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 21:56	108-67-8	
Vinyl chloride	**17.3**	ug/L	1.0	0.17	1		10/23/18 21:56	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 21:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/23/18 21:56	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/23/18 21:56	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/23/18 21:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-112 **Lab ID: 40178074014** Collected: 10/18/18 09:00 Received: 10/19/18 15:20 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		10/23/18 22:18	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 22:18	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 22:18	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 22:18	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 22:18	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 22:18	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 22:18	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 22:18	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 22:18	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 22:18	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 22:18	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 22:18	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 22:18	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 22:18	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 22:18	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 22:18	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 22:18	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 22:18	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 22:18	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 22:18	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 22:18	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 22:18	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 22:18	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 22:18	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 22:18	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 22:18	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 22:18	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 22:18	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 22:18	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 22:18	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 22:18	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 22:18	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 22:18	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 22:18	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 22:18	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 22:18	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 22:18	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 22:18	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 22:18	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 22:18	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 22:18	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 22:18	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 22:18	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 22:18	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 22:18	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 22:18	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-112 **Lab ID: 40178074014** Collected: 10/18/18 09:00 Received: 10/19/18 15:20 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		10/23/18 22:18	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 22:18	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 22:18	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 22:18	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 22:18	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 22:18	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 22:18	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 22:18	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 22:18	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 22:18	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 22:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 22:18	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 22:18	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 22:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/23/18 22:18	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 22:18	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/18 22:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-111 **Lab ID: 40178074015** Collected: 10/18/18 10:00 Received: 10/19/18 15:20 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		10/23/18 22:39	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 22:39	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 22:39	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 22:39	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 22:39	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 22:39	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 22:39	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 22:39	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 22:39	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 22:39	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 22:39	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 22:39	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 22:39	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 22:39	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 22:39	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 22:39	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 22:39	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 22:39	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 22:39	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 22:39	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 22:39	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 22:39	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 22:39	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 22:39	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 22:39	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 22:39	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 22:39	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 22:39	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 22:39	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 22:39	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 22:39	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 22:39	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 22:39	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 22:39	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 22:39	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 22:39	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 22:39	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 22:39	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 22:39	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 22:39	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 22:39	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 22:39	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 22:39	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 22:39	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 22:39	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 22:39	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-111 **Lab ID: 40178074015** Collected: 10/18/18 10:00 Received: 10/19/18 15:20 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		10/23/18 22:39	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 22:39	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 22:39	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 22:39	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 22:39	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 22:39	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 22:39	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 22:39	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 22:39	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 22:39	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 22:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 22:39	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 22:39	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 22:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		10/23/18 22:39	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/18 22:39	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/23/18 22:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-116 **Lab ID: 40178074016** Collected: 10/18/18 10:45 Received: 10/19/18 15:20 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		10/23/18 23:01	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:01	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 23:01	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 23:01	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 23:01	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 23:01	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:01	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 23:01	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 23:01	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 23:01	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:01	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 23:01	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 23:01	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 23:01	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 23:01	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 23:01	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 23:01	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 23:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 23:01	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 23:01	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:01	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 23:01	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 23:01	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 23:01	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:01	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 23:01	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:01	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:01	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 23:01	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 23:01	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 23:01	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 23:01	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 23:01	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 23:01	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 23:01	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 23:01	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 23:01	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 23:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 23:01	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 23:01	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 23:01	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 23:01	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 23:01	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 23:01	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 23:01	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:01	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-116 **Lab ID: 40178074016** Collected: 10/18/18 10:45 Received: 10/19/18 15:20 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		10/23/18 23:01	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 23:01	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 23:01	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 23:01	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 23:01	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:01	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 23:01	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 23:01	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 23:01	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 23:01	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 23:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 23:01	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 23:01	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 23:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/23/18 23:01	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/23/18 23:01	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/23/18 23:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: PZ-116 **Lab ID: 40178074017** Collected: 10/18/18 11:35 Received: 10/19/18 15:20 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		10/23/18 23:23	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:23	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 23:23	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 23:23	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 23:23	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 23:23	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:23	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 23:23	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 23:23	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 23:23	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:23	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 23:23	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 23:23	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 23:23	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 23:23	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 23:23	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 23:23	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 23:23	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 23:23	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:23	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 23:23	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 23:23	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 23:23	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:23	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 23:23	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:23	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:23	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 23:23	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 23:23	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 23:23	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 23:23	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 23:23	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 23:23	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 23:23	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 23:23	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 23:23	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 23:23	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 23:23	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 23:23	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 23:23	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 23:23	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 23:23	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 23:23	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:23	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: PZ-116 **Lab ID: 40178074017** Collected: 10/18/18 11:35 Received: 10/19/18 15:20 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		10/23/18 23:23	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 23:23	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 23:23	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 23:23	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 23:23	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:23	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 23:23	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 23:23	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 23:23	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 23:23	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 23:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 23:23	108-67-8	
Vinyl chloride	**0.32J**	ug/L	1.0	0.17	1		10/23/18 23:23	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 23:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		10/23/18 23:23	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/23/18 23:23	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		10/23/18 23:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-109 **Lab ID: 40178074018** Collected: 10/18/18 12:45 Received: 10/19/18 15:20 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		10/23/18 23:45	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:45	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 23:45	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 23:45	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 23:45	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 23:45	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:45	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 23:45	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 23:45	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 23:45	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:45	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 23:45	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 23:45	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 23:45	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 23:45	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 23:45	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 23:45	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 23:45	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 23:45	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 23:45	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 23:45	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 23:45	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 23:45	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 23:45	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:45	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 23:45	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:45	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:45	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 23:45	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 23:45	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 23:45	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 23:45	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 23:45	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 23:45	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 23:45	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 23:45	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 23:45	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 23:45	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 23:45	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 23:45	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 23:45	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 23:45	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 23:45	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 23:45	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 23:45	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 23:45	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-109 **Lab ID: 40178074018** Collected: 10/18/18 12:45 Received: 10/19/18 15:20 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		10/23/18 23:45	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 23:45	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 23:45	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 23:45	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 23:45	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 23:45	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 23:45	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 23:45	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 23:45	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 23:45	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 23:45	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 23:45	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 23:45	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 23:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		10/23/18 23:45	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/23/18 23:45	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/23/18 23:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-79 **Lab ID: 40178074019** Collected: 10/18/18 14:10 Received: 10/19/18 15:20 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		10/24/18 00:07	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:07	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/24/18 00:07	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/24/18 00:07	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/24/18 00:07	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/24/18 00:07	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:07	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/24/18 00:07	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/24/18 00:07	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/24/18 00:07	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:07	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/24/18 00:07	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/24/18 00:07	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/24/18 00:07	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/24/18 00:07	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/24/18 00:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/24/18 00:07	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/24/18 00:07	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/24/18 00:07	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/24/18 00:07	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:07	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/24/18 00:07	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/24/18 00:07	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/24/18 00:07	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:07	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 00:07	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:07	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:07	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/24/18 00:07	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 00:07	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/24/18 00:07	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/24/18 00:07	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/24/18 00:07	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/24/18 00:07	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/24/18 00:07	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/24/18 00:07	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/24/18 00:07	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 00:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/24/18 00:07	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/24/18 00:07	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/24/18 00:07	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/24/18 00:07	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 00:07	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/24/18 00:07	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/24/18 00:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:07	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-79 **Lab ID: 40178074019** Collected: 10/18/18 14:10 Received: 10/19/18 15:20 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		10/24/18 00:07	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/24/18 00:07	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/24/18 00:07	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/24/18 00:07	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/24/18 00:07	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:07	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/24/18 00:07	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/24/18 00:07	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/24/18 00:07	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/24/18 00:07	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/24/18 00:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/24/18 00:07	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/24/18 00:07	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/24/18 00:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/24/18 00:07	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/24/18 00:07	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/24/18 00:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-81 **Lab ID: 40178074020** Collected: 10/18/18 15:05 Received: 10/19/18 15:20 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		10/24/18 00:29	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:29	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/24/18 00:29	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/24/18 00:29	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/24/18 00:29	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/24/18 00:29	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:29	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/24/18 00:29	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/24/18 00:29	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/24/18 00:29	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:29	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/24/18 00:29	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/24/18 00:29	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/24/18 00:29	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/24/18 00:29	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/24/18 00:29	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/24/18 00:29	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/24/18 00:29	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/24/18 00:29	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/24/18 00:29	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/24/18 00:29	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/24/18 00:29	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/24/18 00:29	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/24/18 00:29	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:29	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 00:29	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:29	75-35-4	
cis-1,2-Dichloroethene	**0.89J**	ug/L	1.0	0.27	1		10/24/18 00:29	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/24/18 00:29	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/24/18 00:29	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/24/18 00:29	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/24/18 00:29	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/24/18 00:29	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/24/18 00:29	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/24/18 00:29	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/24/18 00:29	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/24/18 00:29	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 00:29	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/24/18 00:29	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/24/18 00:29	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/24/18 00:29	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/24/18 00:29	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/24/18 00:29	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/24/18 00:29	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/24/18 00:29	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/24/18 00:29	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-81 **Lab ID: 40178074020** Collected: 10/18/18 15:05 Received: 10/19/18 15:20 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		10/24/18 00:29	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/24/18 00:29	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/24/18 00:29	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/24/18 00:29	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/24/18 00:29	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/24/18 00:29	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/24/18 00:29	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/24/18 00:29	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/24/18 00:29	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/24/18 00:29	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/24/18 00:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/24/18 00:29	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/24/18 00:29	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/24/18 00:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		10/24/18 00:29	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/24/18 00:29	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		10/24/18 00:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-113 **Lab ID: 40178074021** Collected: 10/18/18 09:15 Received: 10/19/18 15:20 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		10/22/18 14:29	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/22/18 14:29	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/22/18 14:29	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/22/18 14:29	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/22/18 14:29	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/22/18 14:29	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 14:29	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/22/18 14:29	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/22/18 14:29	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/22/18 14:29	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 14:29	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/22/18 14:29	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/22/18 14:29	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/22/18 14:29	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/22/18 14:29	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/22/18 14:29	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/22/18 14:29	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/22/18 14:29	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/22/18 14:29	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/22/18 14:29	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 14:29	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/22/18 14:29	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/22/18 14:29	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/22/18 14:29	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/18 14:29	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/18 14:29	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/22/18 14:29	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/22/18 14:29	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/22/18 14:29	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/22/18 14:29	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/22/18 14:29	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/22/18 14:29	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/22/18 14:29	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/22/18 14:29	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/22/18 14:29	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/22/18 14:29	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/22/18 14:29	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/22/18 14:29	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/22/18 14:29	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/22/18 14:29	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/22/18 14:29	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/22/18 14:29	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/22/18 14:29	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/22/18 14:29	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/22/18 14:29	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/18 14:29	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-113 **Lab ID: 40178074021** Collected: 10/18/18 09:15 Received: 10/19/18 15:20 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		10/22/18 14:29	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/22/18 14:29	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/22/18 14:29	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/22/18 14:29	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/22/18 14:29	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/22/18 14:29	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/22/18 14:29	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/22/18 14:29	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/22/18 14:29	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/22/18 14:29	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/22/18 14:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/22/18 14:29	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/22/18 14:29	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/22/18 14:29	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/22/18 14:29	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/22/18 14:29	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/22/18 14:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-117 **Lab ID: 40178074022** Collected: 10/18/18 11:15 Received: 10/19/18 15:20 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		10/22/18 14:51	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/22/18 14:51	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/22/18 14:51	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/22/18 14:51	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/22/18 14:51	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/22/18 14:51	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 14:51	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/22/18 14:51	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/22/18 14:51	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/22/18 14:51	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 14:51	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/22/18 14:51	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/22/18 14:51	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/22/18 14:51	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/22/18 14:51	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/22/18 14:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/22/18 14:51	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/22/18 14:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/22/18 14:51	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/22/18 14:51	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 14:51	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/22/18 14:51	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/22/18 14:51	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/22/18 14:51	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/18 14:51	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/18 14:51	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/22/18 14:51	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/22/18 14:51	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/22/18 14:51	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/22/18 14:51	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/22/18 14:51	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/22/18 14:51	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/22/18 14:51	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/22/18 14:51	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/22/18 14:51	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/22/18 14:51	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/22/18 14:51	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/22/18 14:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/22/18 14:51	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/22/18 14:51	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/22/18 14:51	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/22/18 14:51	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/22/18 14:51	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/22/18 14:51	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/22/18 14:51	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/18 14:51	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-117 **Lab ID: 40178074022** Collected: 10/18/18 11:15 Received: 10/19/18 15:20 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		10/22/18 14:51	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/22/18 14:51	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/22/18 14:51	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/22/18 14:51	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/22/18 14:51	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/22/18 14:51	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/22/18 14:51	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/22/18 14:51	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/22/18 14:51	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/22/18 14:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/22/18 14:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/22/18 14:51	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/22/18 14:51	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/22/18 14:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		10/22/18 14:51	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		10/22/18 14:51	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/22/18 14:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: PZ-117 **Lab ID: 40178074023** Collected: 10/18/18 10:25 Received: 10/19/18 15:20 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		10/22/18 15:13	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/22/18 15:13	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/22/18 15:13	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/22/18 15:13	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/22/18 15:13	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/22/18 15:13	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 15:13	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/22/18 15:13	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/22/18 15:13	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/22/18 15:13	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 15:13	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/22/18 15:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/22/18 15:13	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/22/18 15:13	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/22/18 15:13	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/22/18 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/22/18 15:13	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/22/18 15:13	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/22/18 15:13	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/22/18 15:13	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/22/18 15:13	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/22/18 15:13	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/22/18 15:13	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/22/18 15:13	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/18 15:13	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/22/18 15:13	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/22/18 15:13	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/22/18 15:13	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/22/18 15:13	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/22/18 15:13	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/22/18 15:13	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/22/18 15:13	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/22/18 15:13	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/22/18 15:13	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/22/18 15:13	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/22/18 15:13	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/22/18 15:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/22/18 15:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/22/18 15:13	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/22/18 15:13	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/22/18 15:13	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/22/18 15:13	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/22/18 15:13	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/22/18 15:13	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/22/18 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/22/18 15:13	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: PZ-117 **Lab ID: 40178074023** Collected: 10/18/18 10:25 Received: 10/19/18 15:20 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		10/22/18 15:13	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/22/18 15:13	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/22/18 15:13	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/22/18 15:13	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/22/18 15:13	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/22/18 15:13	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/22/18 15:13	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/22/18 15:13	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/22/18 15:13	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/22/18 15:13	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/22/18 15:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/22/18 15:13	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/22/18 15:13	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/22/18 15:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		10/22/18 15:13	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		10/22/18 15:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		10/22/18 15:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-110 **Lab ID: 40178074024** Collected: 10/18/18 12:15 Received: 10/19/18 15:20 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		10/23/18 11:34	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 11:34	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 11:34	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 11:34	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 11:34	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 11:34	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 11:34	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 11:34	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 11:34	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 11:34	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 11:34	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 11:34	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 11:34	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 11:34	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 11:34	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 11:34	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 11:34	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 11:34	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 11:34	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 11:34	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 11:34	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 11:34	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 11:34	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 11:34	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 11:34	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 11:34	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 11:34	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 11:34	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 11:34	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 11:34	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 11:34	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 11:34	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 11:34	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 11:34	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 11:34	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 11:34	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 11:34	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 11:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 11:34	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 11:34	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 11:34	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 11:34	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 11:34	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 11:34	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 11:34	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 11:34	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-110 **Lab ID: 40178074024** Collected: 10/18/18 12:15 Received: 10/19/18 15:20 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		10/23/18 11:34	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 11:34	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 11:34	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 11:34	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 11:34	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 11:34	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 11:34	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 11:34	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 11:34	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 11:34	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 11:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 11:34	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 11:34	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 11:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/18 11:34	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		10/23/18 11:34	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/18 11:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-44 **Lab ID: 40178074025** Collected: 10/18/18 13:30 Received: 10/19/18 15:20 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		10/23/18 11:56	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 11:56	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 11:56	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 11:56	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 11:56	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 11:56	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 11:56	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 11:56	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 11:56	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 11:56	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 11:56	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 11:56	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 11:56	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 11:56	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 11:56	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 11:56	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 11:56	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 11:56	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 11:56	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 11:56	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 11:56	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 11:56	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 11:56	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 11:56	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 11:56	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 11:56	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 11:56	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 11:56	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 11:56	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 11:56	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 11:56	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 11:56	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 11:56	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 11:56	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 11:56	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 11:56	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 11:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 11:56	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 11:56	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 11:56	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 11:56	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 11:56	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 11:56	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 11:56	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 11:56	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 11:56	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-44 **Lab ID: 40178074025** Collected: 10/18/18 13:30 Received: 10/19/18 15:20 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		10/23/18 11:56	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 11:56	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 11:56	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 11:56	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 11:56	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 11:56	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 11:56	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 11:56	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 11:56	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 11:56	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 11:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 11:56	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 11:56	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 11:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/23/18 11:56	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/23/18 11:56	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/23/18 11:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-80 **Lab ID: 40178074026** Collected: 10/18/18 14:40 Received: 10/19/18 15:20 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		10/23/18 12:17	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 12:17	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 12:17	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 12:17	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 12:17	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 12:17	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 12:17	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 12:17	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 12:17	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 12:17	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 12:17	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 12:17	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 12:17	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 12:17	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 12:17	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 12:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 12:17	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 12:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 12:17	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 12:17	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 12:17	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 12:17	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 12:17	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 12:17	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 12:17	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 12:17	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 12:17	75-35-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/23/18 12:17	156-59-2	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/23/18 12:17	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 12:17	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 12:17	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 12:17	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 12:17	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 12:17	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 12:17	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 12:17	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 12:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 12:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 12:17	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 12:17	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 12:17	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 12:17	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 12:17	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 12:17	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 12:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 12:17	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-80 **Lab ID: 40178074026** Collected: 10/18/18 14:40 Received: 10/19/18 15:20 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		10/23/18 12:17	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 12:17	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 12:17	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 12:17	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 12:17	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 12:17	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 12:17	79-00-5	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/23/18 12:17	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 12:17	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 12:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 12:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 12:17	108-67-8	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 12:17	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 12:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/23/18 12:17	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		10/23/18 12:17	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/23/18 12:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-82 **Lab ID: 40178074027** Collected: 10/18/18 15:35 Received: 10/19/18 15:20 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		10/23/18 18:01	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:01	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/23/18 18:01	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/23/18 18:01	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/23/18 18:01	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/23/18 18:01	74-83-9	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:01	104-51-8	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/23/18 18:01	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/23/18 18:01	98-06-6	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/23/18 18:01	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:01	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/23/18 18:01	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/23/18 18:01	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/23/18 18:01	74-87-3	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/23/18 18:01	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/23/18 18:01	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/23/18 18:01	96-12-8	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/23/18 18:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/23/18 18:01	106-93-4	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/23/18 18:01	74-95-3	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/23/18 18:01	95-50-1	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/23/18 18:01	541-73-1	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/23/18 18:01	106-46-7	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/23/18 18:01	75-71-8	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:01	75-34-3	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 18:01	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:01	75-35-4	
cis-1,2-Dichloroethene	**133**	ug/L	1.0	0.27	1		10/23/18 18:01	156-59-2	
trans-1,2-Dichloroethene	**4.0**	ug/L	3.6	1.1	1		10/23/18 18:01	156-60-5	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/23/18 18:01	78-87-5	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/23/18 18:01	142-28-9	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/23/18 18:01	594-20-7	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/23/18 18:01	563-58-6	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/23/18 18:01	10061-01-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/23/18 18:01	10061-02-6	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/23/18 18:01	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/23/18 18:01	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 18:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/23/18 18:01	98-82-8	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/23/18 18:01	99-87-6	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/23/18 18:01	75-09-2	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/23/18 18:01	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/23/18 18:01	91-20-3	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/23/18 18:01	103-65-1	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/23/18 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/23/18 18:01	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Sample: MW-82 **Lab ID: 40178074027** Collected: 10/18/18 15:35 Received: 10/19/18 15:20 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		10/23/18 18:01	79-34-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/23/18 18:01	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/23/18 18:01	108-88-3	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/23/18 18:01	87-61-6	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/23/18 18:01	120-82-1	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/23/18 18:01	71-55-6	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/23/18 18:01	79-00-5	
Trichloroethene	**17.9**	ug/L	1.0	0.26	1		10/23/18 18:01	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/23/18 18:01	75-69-4	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/23/18 18:01	96-18-4	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/23/18 18:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/23/18 18:01	108-67-8	
Vinyl chloride	**25.1**	ug/L	1.0	0.17	1		10/23/18 18:01	75-01-4	
Xylene (Total)	**<1.5**	ug/L	3.0	1.5	1		10/23/18 18:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/23/18 18:01	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		10/23/18 18:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/23/18 18:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

QC Batch: 303817 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178074021, 40178074022, 40178074023

METHOD BLANK: 1775401 Matrix: Water
Associated Lab Samples: 40178074021, 40178074022, 40178074023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/22/18 08:13	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/22/18 08:13	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/22/18 08:13	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/22/18 08:13	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/22/18 08:13	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/22/18 08:13	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/22/18 08:13	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/22/18 08:13	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/22/18 08:13	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/22/18 08:13	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/22/18 08:13	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/22/18 08:13	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/22/18 08:13	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/22/18 08:13	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/22/18 08:13	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/22/18 08:13	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/22/18 08:13	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/22/18 08:13	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/22/18 08:13	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/22/18 08:13	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/22/18 08:13	
2-Chlorotoluene	ug/L	<0.93	5.0	10/22/18 08:13	
4-Chlorotoluene	ug/L	<0.76	2.5	10/22/18 08:13	
Benzene	ug/L	<0.25	1.0	10/22/18 08:13	
Bromobenzene	ug/L	<0.24	1.0	10/22/18 08:13	
Bromochloromethane	ug/L	<0.36	5.0	10/22/18 08:13	
Bromodichloromethane	ug/L	<0.36	1.2	10/22/18 08:13	
Bromoform	ug/L	<4.0	13.2	10/22/18 08:13	
Bromomethane	ug/L	<0.97	5.0	10/22/18 08:13	
Carbon tetrachloride	ug/L	<0.17	1.0	10/22/18 08:13	
Chlorobenzene	ug/L	<0.71	2.4	10/22/18 08:13	
Chloroethane	ug/L	<1.3	5.0	10/22/18 08:13	
Chloroform	ug/L	<1.3	5.0	10/22/18 08:13	
Chloromethane	ug/L	<2.2	7.3	10/22/18 08:13	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/22/18 08:13	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/22/18 08:13	
Dibromochloromethane	ug/L	<2.6	8.7	10/22/18 08:13	
Dibromomethane	ug/L	<0.94	3.1	10/22/18 08:13	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/22/18 08:13	
Diisopropyl ether	ug/L	<1.9	6.3	10/22/18 08:13	
Ethylbenzene	ug/L	<0.22	1.0	10/22/18 08:13	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

METHOD BLANK: 1775401 Matrix: Water
Associated Lab Samples: 40178074021, 40178074022, 40178074023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/22/18 08:13	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/22/18 08:13	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/22/18 08:13	
Methylene Chloride	ug/L	<0.58	5.0	10/22/18 08:13	
n-Butylbenzene	ug/L	<0.71	2.4	10/22/18 08:13	
n-Propylbenzene	ug/L	<0.81	5.0	10/22/18 08:13	
Naphthalene	ug/L	<1.2	5.0	10/22/18 08:13	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/22/18 08:13	
sec-Butylbenzene	ug/L	<0.85	5.0	10/22/18 08:13	
Styrene	ug/L	<0.47	1.6	10/22/18 08:13	
tert-Butylbenzene	ug/L	<0.30	1.0	10/22/18 08:13	
Tetrachloroethene	ug/L	<0.33	1.1	10/22/18 08:13	
Toluene	ug/L	<0.17	5.0	10/22/18 08:13	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/22/18 08:13	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/22/18 08:13	
Trichloroethene	ug/L	<0.26	1.0	10/22/18 08:13	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/22/18 08:13	
Vinyl chloride	ug/L	<0.17	1.0	10/22/18 08:13	
Xylene (Total)	ug/L	<1.5	3.0	10/22/18 08:13	
4-Bromofluorobenzene (S)	%	93	70-130	10/22/18 08:13	
Dibromofluoromethane (S)	%	101	70-130	10/22/18 08:13	
Toluene-d8 (S)	%	100	70-130	10/22/18 08:13	

LABORATORY CONTROL SAMPLE: 1775402

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	45.5	91	67-130	
1,1,2-Trichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethane	ug/L	50	51.2	102	70-134	
1,1-Dichloroethene	ug/L	50	51.9	104	75-132	
1,2,4-Trichlorobenzene	ug/L	50	43.5	87	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.2	92	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	50.9	102	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	50.5	101	73-134	
1,2-Dichloropropane	ug/L	50	46.9	94	79-128	
1,3-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
Benzene	ug/L	50	49.9	100	69-137	
Bromodichloromethane	ug/L	50	47.4	95	70-130	
Bromoform	ug/L	50	49.4	99	64-133	
Bromomethane	ug/L	50	33.8	68	29-123	
Carbon tetrachloride	ug/L	50	51.9	104	73-142	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

LABORATORY CONTROL SAMPLE: 1775402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	48.3	97	59-133	
Chloroform	ug/L	50	50.2	100	80-129	
Chloromethane	ug/L	50	34.8	70	27-125	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	70-134	
cis-1,3-Dichloropropene	ug/L	50	49.0	98	70-130	
Dibromochloromethane	ug/L	50	47.6	95	70-130	
Dichlorodifluoromethane	ug/L	50	37.2	74	12-127	
Ethylbenzene	ug/L	50	50.2	100	86-127	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-130	
Methyl-tert-butyl ether	ug/L	50	48.9	98	65-136	
Methylene Chloride	ug/L	50	48.3	97	72-133	
Styrene	ug/L	50	51.7	103	70-130	
Tetrachloroethene	ug/L	50	50.3	101	70-130	
Toluene	ug/L	50	49.4	99	84-124	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	70-133	
trans-1,3-Dichloropropene	ug/L	50	49.6	99	67-130	
Trichloroethene	ug/L	50	50.3	101	70-130	
Trichlorofluoromethane	ug/L	50	52.9	106	69-147	
Vinyl chloride	ug/L	50	43.6	87	48-134	
Xylene (Total)	ug/L	150	154	103	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1775482 1775483

Parameter	Units	40177788004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	51.9	51.1	104	102	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	47.8	45.5	96	91	67-133	5	20	
1,1,2-Trichloroethane	ug/L	<5.0	50	50	46.1	46.4	92	93	70-130	1	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	51.2	50.9	102	102	70-139	1	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	51.3	51.6	103	103	72-137	1	20	
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	48.4	45.4	97	91	68-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.9	50	50	47.6	47.8	95	96	60-130	0	21	
1,2-Dibromoethane (EDB)	ug/L	<2.8	50	50	51.0	50.9	102	102	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<2.4	50	50	53.5	50.8	107	102	70-130	5	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	50.0	49.7	99	98	71-137	1	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	47.5	47.9	95	96	78-130	1	20	
1,3-Dichlorobenzene	ug/L	<2.1	50	50	53.1	50.7	106	101	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<3.1	50	50	55.0	51.5	110	103	70-130	7	20	
Benzene	ug/L	3.6	50	50	54.0	53.0	101	99	66-143	2	20	
Bromodichloromethane	ug/L	<1.2	50	50	48.4	46.8	97	94	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1775482 1775483

Parameter	Units	40177788004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromoform	ug/L	<5.0	50	50	50.0	49.1	100	98	64-134	2	20	
Bromomethane	ug/L	<5.0	50	50	36.9	36.9	74	74	29-136	0	25	
Carbon tetrachloride	ug/L	<1.0	50	50	51.9	52.0	104	104	73-142	0	20	
Chlorobenzene	ug/L	<2.4	50	50	51.3	51.0	103	102	70-130	0	20	
Chloroethane	ug/L	<5.0	50	50	48.6	48.1	97	96	58-138	1	20	
Chloroform	ug/L	<5.0	50	50	50.7	49.5	101	99	80-131	2	20	
Chloromethane	ug/L	<7.3	50	50	35.3	34.2	71	68	24-125	3	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	49.8	49.1	100	98	68-137	1	22	
cis-1,3-Dichloropropene	ug/L	<12.1	50	50	50.0	50.3	100	101	70-130	1	20	
Dibromochloromethane	ug/L	<8.7	50	50	50.0	47.5	100	95	70-131	5	20	
Dichlorodifluoromethane	ug/L	<5.0	50	50	37.3	36.4	75	73	10-127	2	20	
Ethylbenzene	ug/L	<1.0	50	50	50.7	50.2	101	100	81-136	1	20	
Isopropylbenzene (Cumene)	ug/L	<5.0	50	50	51.8	51.3	104	103	70-132	1	20	
Methyl-tert-butyl ether	ug/L	<4.2	50	50	49.7	48.9	99	98	58-142	2	23	
Methylene Chloride	ug/L	<5.0	50	50	49.6	48.0	99	96	69-137	3	20	
Styrene	ug/L	<1.6	50	50	51.8	51.4	104	103	70-130	1	20	
Tetrachloroethene	ug/L	<1.1	50	50	51.0	50.5	102	101	70-132	1	20	
Toluene	ug/L	<5.0	50	50	51.0	50.7	102	101	81-130	0	20	
trans-1,2-Dichloroethene	ug/L	<3.6	50	50	52.1	50.6	104	101	70-136	3	20	
trans-1,3-Dichloropropene	ug/L	<14.6	50	50	47.7	48.3	95	97	67-130	1	20	
Trichloroethene	ug/L	<1.0	50	50	51.6	50.3	103	101	70-131	3	20	
Trichlorofluoromethane	ug/L	<1.0	50	50	53.6	53.0	107	106	66-150	1	20	
Vinyl chloride	ug/L	<1.0	50	50	43.9	43.5	88	87	46-134	1	20	
Xylene (Total)	ug/L	<3.0	150	150	156	155	104	103	70-134	1	20	
4-Bromofluorobenzene (S)	%						96	96	70-130			
Dibromofluoromethane (S)	%						100	99	70-130			
Toluene-d8 (S)	%						96	98	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

QC Batch: 303849 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178074001, 40178074002, 40178074003, 40178074004, 40178074005, 40178074006, 40178074007, 40178074008, 40178074009, 40178074010, 40178074011, 40178074012, 40178074013, 40178074014, 40178074015, 40178074016, 40178074017, 40178074018, 40178074019, 40178074020

METHOD BLANK: 1775512 Matrix: Water
Associated Lab Samples: 40178074001, 40178074002, 40178074003, 40178074004, 40178074005, 40178074006, 40178074007, 40178074008, 40178074009, 40178074010, 40178074011, 40178074012, 40178074013, 40178074014, 40178074015, 40178074016, 40178074017, 40178074018, 40178074019, 40178074020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/23/18 14:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/23/18 14:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/23/18 14:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/23/18 14:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/23/18 14:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/23/18 14:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/23/18 14:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/23/18 14:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/23/18 14:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/23/18 14:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/23/18 14:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/23/18 14:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/23/18 14:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/23/18 14:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/23/18 14:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/23/18 14:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/23/18 14:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/23/18 14:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/23/18 14:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/23/18 14:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/23/18 14:57	
2-Chlorotoluene	ug/L	<0.93	5.0	10/23/18 14:57	
4-Chlorotoluene	ug/L	<0.76	2.5	10/23/18 14:57	
Benzene	ug/L	<0.25	1.0	10/23/18 14:57	
Bromobenzene	ug/L	<0.24	1.0	10/23/18 14:57	
Bromochloromethane	ug/L	<0.36	5.0	10/23/18 14:57	
Bromodichloromethane	ug/L	<0.36	1.2	10/23/18 14:57	
Bromoform	ug/L	<4.0	13.2	10/23/18 14:57	
Bromomethane	ug/L	<0.97	5.0	10/23/18 14:57	
Carbon tetrachloride	ug/L	<0.17	1.0	10/23/18 14:57	
Chlorobenzene	ug/L	<0.71	2.4	10/23/18 14:57	
Chloroethane	ug/L	<1.3	5.0	10/23/18 14:57	
Chloroform	ug/L	<1.3	5.0	10/23/18 14:57	
Chloromethane	ug/L	<2.2	7.3	10/23/18 14:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/23/18 14:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/23/18 14:57	
Dibromochloromethane	ug/L	<2.6	8.7	10/23/18 14:57	
Dibromomethane	ug/L	<0.94	3.1	10/23/18 14:57	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

METHOD BLANK: 1775512 Matrix: Water

Associated Lab Samples: 40178074001, 40178074002, 40178074003, 40178074004, 40178074005, 40178074006, 40178074007, 40178074008, 40178074009, 40178074010, 40178074011, 40178074012, 40178074013, 40178074014, 40178074015, 40178074016, 40178074017, 40178074018, 40178074019, 40178074020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/23/18 14:57	
Diisopropyl ether	ug/L	<1.9	6.3	10/23/18 14:57	
Ethylbenzene	ug/L	<0.22	1.0	10/23/18 14:57	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/23/18 14:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/23/18 14:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/23/18 14:57	
Methylene Chloride	ug/L	<0.58	5.0	10/23/18 14:57	
n-Butylbenzene	ug/L	<0.71	2.4	10/23/18 14:57	
n-Propylbenzene	ug/L	<0.81	5.0	10/23/18 14:57	
Naphthalene	ug/L	<1.2	5.0	10/23/18 14:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/23/18 14:57	
sec-Butylbenzene	ug/L	<0.85	5.0	10/23/18 14:57	
Styrene	ug/L	<0.47	1.6	10/23/18 14:57	
tert-Butylbenzene	ug/L	<0.30	1.0	10/23/18 14:57	
Tetrachloroethene	ug/L	<0.33	1.1	10/23/18 14:57	
Toluene	ug/L	<0.17	5.0	10/23/18 14:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/23/18 14:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/23/18 14:57	
Trichloroethene	ug/L	<0.26	1.0	10/23/18 14:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/23/18 14:57	
Vinyl chloride	ug/L	<0.17	1.0	10/23/18 14:57	
Xylene (Total)	ug/L	<1.5	3.0	10/23/18 14:57	
4-Bromofluorobenzene (S)	%	93	70-130	10/23/18 14:57	
Dibromofluoromethane (S)	%	99	70-130	10/23/18 14:57	
Toluene-d8 (S)	%	99	70-130	10/23/18 14:57	

LABORATORY CONTROL SAMPLE: 1775513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.0	98	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	43.8	88	67-130	
1,1,2-Trichloroethane	ug/L	50	47.2	94	70-130	
1,1-Dichloroethane	ug/L	50	50.2	100	70-134	
1,1-Dichloroethene	ug/L	50	50.5	101	75-132	
1,2,4-Trichlorobenzene	ug/L	50	44.3	89	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.7	85	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	52.0	104	70-130	
1,2-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dichloroethane	ug/L	50	47.0	94	73-134	
1,2-Dichloropropane	ug/L	50	46.1	92	79-128	
1,3-Dichlorobenzene	ug/L	50	48.6	97	70-130	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

LABORATORY CONTROL SAMPLE: 1775513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	48.0	96	69-137	
Bromodichloromethane	ug/L	50	45.4	91	70-130	
Bromoform	ug/L	50	47.6	95	64-133	
Bromomethane	ug/L	50	34.6	69	29-123	
Carbon tetrachloride	ug/L	50	48.6	97	73-142	
Chlorobenzene	ug/L	50	52.5	105	70-130	
Chloroethane	ug/L	50	47.4	95	59-133	
Chloroform	ug/L	50	48.8	98	80-129	
Chloromethane	ug/L	50	33.2	66	27-125	
cis-1,2-Dichloroethene	ug/L	50	47.3	95	70-134	
cis-1,3-Dichloropropene	ug/L	50	43.9	88	70-130	
Dibromochloromethane	ug/L	50	49.8	100	70-130	
Dichlorodifluoromethane	ug/L	50	32.7	65	12-127	
Ethylbenzene	ug/L	50	50.8	102	86-127	
Isopropylbenzene (Cumene)	ug/L	50	51.6	103	70-130	
Methyl-tert-butyl ether	ug/L	50	46.4	93	65-136	
Methylene Chloride	ug/L	50	48.4	97	72-133	
Styrene	ug/L	50	51.6	103	70-130	
Tetrachloroethene	ug/L	50	51.0	102	70-130	
Toluene	ug/L	50	50.1	100	84-124	
trans-1,2-Dichloroethene	ug/L	50	50.9	102	70-133	
trans-1,3-Dichloropropene	ug/L	50	43.7	87	67-130	
Trichloroethene	ug/L	50	49.3	99	70-130	
Trichlorofluoromethane	ug/L	50	51.2	102	69-147	
Vinyl chloride	ug/L	50	41.7	83	48-134	
Xylene (Total)	ug/L	150	157	105	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1775798 1775799

Parameter	Units	40178074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	0.82J	50	50	50.4	50.2	99	99	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	44.2	43.4	88	87	67-133	2	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	46.6	47.9	93	96	70-130	3	20	
1,1-Dichloroethane	ug/L	0.35J	50	50	51.1	51.0	101	101	70-139	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	51.1	51.1	102	102	72-137	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.9	44.6	90	89	68-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	40.6	41.6	81	83	60-130	2	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.7	52.1	99	104	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.6	49.6	99	99	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	49.4	49.5	99	99	71-137	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1775798 1775799

Parameter	Units	40178074002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloropropane	ug/L	<0.28	50	50	46.7	45.4	93	91	78-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.9	49.1	100	98	70-130	2	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.0	50.1	102	100	70-130	2	20	
Benzene	ug/L	<0.25	50	50	48.6	48.7	97	97	66-143	0	20	
Bromodichloromethane	ug/L	<0.36	50	50	45.9	45.5	92	91	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	46.4	48.0	93	96	64-134	3	20	
Bromomethane	ug/L	<0.97	50	50	33.5	35.9	67	72	29-136	7	25	
Carbon tetrachloride	ug/L	<0.17	50	50	49.8	50.4	100	101	73-142	1	20	
Chlorobenzene	ug/L	<0.71	50	50	51.2	53.0	102	106	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	47.3	47.3	95	95	58-138	0	20	
Chloroform	ug/L	<1.3	50	50	48.9	49.1	98	98	80-131	0	20	
Chloromethane	ug/L	<2.2	50	50	32.9	32.4	66	65	24-125	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	49.1	48.5	98	97	68-137	1	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.2	43.9	88	88	70-130	1	20	
Dibromochloromethane	ug/L	<2.6	50	50	47.7	49.0	95	98	70-131	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	33.0	32.6	66	65	10-127	1	20	
Ethylbenzene	ug/L	<0.22	50	50	50.3	51.4	101	103	81-136	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.8	52.4	102	105	70-132	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.1	46.3	96	93	58-142	4	23	
Methylene Chloride	ug/L	<0.58	50	50	49.9	48.5	100	97	69-137	3	20	
Styrene	ug/L	<0.47	50	50	51.4	52.8	103	106	70-130	3	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.5	51.8	99	104	70-132	4	20	
Toluene	ug/L	<0.17	50	50	50.0	51.0	100	102	81-130	2	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	52.0	50.6	104	101	70-136	3	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.3	43.9	87	88	67-130	1	20	
Trichloroethene	ug/L	<0.26	50	50	50.4	49.9	101	100	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.7	51.2	105	102	66-150	3	20	
Vinyl chloride	ug/L	<0.17	50	50	42.2	42.3	84	85	46-134	0	20	
Xylene (Total)	ug/L	<1.5	150	150	155	155	103	103	70-134	0	20	
4-Bromofluorobenzene (S)	%						96	99	70-130			
Dibromofluoromethane (S)	%						98	99	70-130			
Toluene-d8 (S)	%						96	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

QC Batch: 303851 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40178074024, 40178074025, 40178074026, 40178074027

METHOD BLANK: 1775515 Matrix: Water
Associated Lab Samples: 40178074024, 40178074025, 40178074026, 40178074027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/23/18 07:17	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/23/18 07:17	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/23/18 07:17	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/23/18 07:17	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/23/18 07:17	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/23/18 07:17	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/23/18 07:17	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/23/18 07:17	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/23/18 07:17	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/23/18 07:17	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/23/18 07:17	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/23/18 07:17	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/23/18 07:17	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/23/18 07:17	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/23/18 07:17	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/23/18 07:17	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/23/18 07:17	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/23/18 07:17	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/23/18 07:17	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/23/18 07:17	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/23/18 07:17	
2-Chlorotoluene	ug/L	<0.93	5.0	10/23/18 07:17	
4-Chlorotoluene	ug/L	<0.76	2.5	10/23/18 07:17	
Benzene	ug/L	<0.25	1.0	10/23/18 07:17	
Bromobenzene	ug/L	<0.24	1.0	10/23/18 07:17	
Bromochloromethane	ug/L	<0.36	5.0	10/23/18 07:17	
Bromodichloromethane	ug/L	<0.36	1.2	10/23/18 07:17	
Bromoform	ug/L	<4.0	13.2	10/23/18 07:17	
Bromomethane	ug/L	<0.97	5.0	10/23/18 07:17	
Carbon tetrachloride	ug/L	<0.17	1.0	10/23/18 07:17	
Chlorobenzene	ug/L	<0.71	2.4	10/23/18 07:17	
Chloroethane	ug/L	<1.3	5.0	10/23/18 07:17	
Chloroform	ug/L	<1.3	5.0	10/23/18 07:17	
Chloromethane	ug/L	<2.2	7.3	10/23/18 07:17	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/23/18 07:17	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/23/18 07:17	
Dibromochloromethane	ug/L	<2.6	8.7	10/23/18 07:17	
Dibromomethane	ug/L	<0.94	3.1	10/23/18 07:17	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/23/18 07:17	
Diisopropyl ether	ug/L	<1.9	6.3	10/23/18 07:17	
Ethylbenzene	ug/L	<0.22	1.0	10/23/18 07:17	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

METHOD BLANK: 1775515 Matrix: Water
Associated Lab Samples: 40178074024, 40178074025, 40178074026, 40178074027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/23/18 07:17	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/23/18 07:17	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/23/18 07:17	
Methylene Chloride	ug/L	<0.58	5.0	10/23/18 07:17	
n-Butylbenzene	ug/L	<0.71	2.4	10/23/18 07:17	
n-Propylbenzene	ug/L	<0.81	5.0	10/23/18 07:17	
Naphthalene	ug/L	<1.2	5.0	10/23/18 07:17	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/23/18 07:17	
sec-Butylbenzene	ug/L	<0.85	5.0	10/23/18 07:17	
Styrene	ug/L	<0.47	1.6	10/23/18 07:17	
tert-Butylbenzene	ug/L	<0.30	1.0	10/23/18 07:17	
Tetrachloroethene	ug/L	<0.33	1.1	10/23/18 07:17	
Toluene	ug/L	<0.17	5.0	10/23/18 07:17	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/23/18 07:17	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/23/18 07:17	
Trichloroethene	ug/L	<0.26	1.0	10/23/18 07:17	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/23/18 07:17	
Vinyl chloride	ug/L	<0.17	1.0	10/23/18 07:17	
Xylene (Total)	ug/L	<1.5	3.0	10/23/18 07:17	
4-Bromofluorobenzene (S)	%	96	70-130	10/23/18 07:17	
Dibromofluoromethane (S)	%	107	70-130	10/23/18 07:17	
Toluene-d8 (S)	%	99	70-130	10/23/18 07:17	

LABORATORY CONTROL SAMPLE: 1775516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.7	115	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	67-130	
1,1,2-Trichloroethane	ug/L	50	47.7	95	70-130	
1,1-Dichloroethane	ug/L	50	56.0	112	70-134	
1,1-Dichloroethene	ug/L	50	53.9	108	75-132	
1,2,4-Trichlorobenzene	ug/L	50	47.7	95	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.4	99	70-130	
1,2-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,2-Dichloroethane	ug/L	50	52.5	105	73-134	
1,2-Dichloropropane	ug/L	50	44.0	88	79-128	
1,3-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,4-Dichlorobenzene	ug/L	50	51.7	103	70-130	
Benzene	ug/L	50	55.5	111	69-137	
Bromodichloromethane	ug/L	50	49.2	98	70-130	
Bromoform	ug/L	50	47.5	95	64-133	
Bromomethane	ug/L	50	27.1	54	29-123	
Carbon tetrachloride	ug/L	50	56.0	112	73-142	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

LABORATORY CONTROL SAMPLE: 1775516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	51.2	102	70-130	
Chloroethane	ug/L	50	47.3	95	59-133	
Chloroform	ug/L	50	54.0	108	80-129	
Chloromethane	ug/L	50	41.8	84	27-125	
cis-1,2-Dichloroethene	ug/L	50	53.6	107	70-134	
cis-1,3-Dichloropropene	ug/L	50	43.9	88	70-130	
Dibromochloromethane	ug/L	50	55.0	110	70-130	
Dichlorodifluoromethane	ug/L	50	37.4	75	12-127	
Ethylbenzene	ug/L	50	51.1	102	86-127	
Isopropylbenzene (Cumene)	ug/L	50	52.5	105	70-130	
Methyl-tert-butyl ether	ug/L	50	46.6	93	65-136	
Methylene Chloride	ug/L	50	58.0	116	72-133	
Styrene	ug/L	50	52.2	104	70-130	
Tetrachloroethene	ug/L	50	45.1	90	70-130	
Toluene	ug/L	50	50.3	101	84-124	
trans-1,2-Dichloroethene	ug/L	50	55.9	112	70-133	
trans-1,3-Dichloropropene	ug/L	50	41.6	83	67-130	
Trichloroethene	ug/L	50	50.3	101	70-130	
Trichlorofluoromethane	ug/L	50	57.9	116	69-147	
Vinyl chloride	ug/L	50	48.0	96	48-134	
Xylene (Total)	ug/L	150	156	104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			112	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1775796 1775797

Parameter	Units	40178032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	55.7	57.8	111	116	70-136	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	46.9	50.0	94	100	67-133	6	20	
1,1,2-Trichloroethane	ug/L	<5.0	50	50	45.5	49.2	91	98	70-130	8	20	
1,1-Dichloroethane	ug/L	<1.0	50	50	53.2	56.6	106	113	70-139	6	20	
1,1-Dichloroethene	ug/L	<1.0	50	50	51.1	54.6	102	109	72-137	7	20	
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	45.3	47.9	90	95	68-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<5.9	50	50	44.4	48.6	89	97	60-130	9	21	
1,2-Dibromoethane (EDB)	ug/L	<2.8	50	50	48.1	51.5	96	103	70-130	7	20	
1,2-Dichlorobenzene	ug/L	<2.4	50	50	50.7	53.7	101	107	70-130	6	20	
1,2-Dichloroethane	ug/L	<1.0	50	50	49.6	52.8	99	106	71-137	6	20	
1,2-Dichloropropane	ug/L	<1.0	50	50	44.1	46.5	88	93	78-130	5	20	
1,3-Dichlorobenzene	ug/L	<2.1	50	50	49.7	52.1	99	104	70-130	5	20	
1,4-Dichlorobenzene	ug/L	<3.1	50	50	49.5	51.7	99	103	70-130	4	20	
Benzene	ug/L	<1.0	50	50	52.3	54.9	105	110	66-143	5	20	
Bromodichloromethane	ug/L	<1.2	50	50	48.2	50.6	96	101	70-130	5	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1775796 1775797

Parameter	Units	40178032001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Bromoform	ug/L	<13.2	50	50	47.2	48.9	94	98	64-134	4	20	
Bromomethane	ug/L	<5.0	50	50	27.3	30.2	55	60	29-136	10	25	
Carbon tetrachloride	ug/L	<1.0	50	50	54.6	59.0	109	118	73-142	8	20	
Chlorobenzene	ug/L	<2.4	50	50	50.2	52.6	100	105	70-130	5	20	
Chloroethane	ug/L	<5.0	50	50	45.6	48.4	91	97	58-138	6	20	
Chloroform	ug/L	<5.0	50	50	51.3	54.2	103	108	80-131	5	20	
Chloromethane	ug/L	<7.3	50	50	38.2	39.2	76	78	24-125	2	20	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	51.6	54.1	103	108	68-137	5	22	
cis-1,3-Dichloropropene	ug/L	<12.1	50	50	43.0	44.4	86	89	70-130	3	20	
Dibromochloromethane	ug/L	<8.7	50	50	53.8	57.0	108	114	70-131	6	20	
Dichlorodifluoromethane	ug/L	<5.0	50	50	34.9	37.0	70	74	10-127	6	20	
Ethylbenzene	ug/L	<1.0	50	50	50.6	52.0	101	104	81-136	3	20	
Isopropylbenzene (Cumene)	ug/L	<5.0	50	50	50.9	54.0	102	108	70-132	6	20	
Methyl-tert-butyl ether	ug/L	<4.2	50	50	43.9	48.3	88	97	58-142	9	23	
Methylene Chloride	ug/L	<5.0	50	50	54.0	58.6	108	117	69-137	8	20	
Styrene	ug/L	<1.6	50	50	51.2	53.5	102	107	70-130	4	20	
Tetrachloroethene	ug/L	<1.1	50	50	44.0	46.2	88	92	70-132	5	20	
Toluene	ug/L	<5.0	50	50	49.2	50.5	98	101	81-130	3	20	
trans-1,2-Dichloroethene	ug/L	<3.6	50	50	52.9	56.1	106	112	70-136	6	20	
trans-1,3-Dichloropropene	ug/L	<14.6	50	50	42.1	43.6	84	87	67-130	4	20	
Trichloroethene	ug/L	<1.0	50	50	49.5	51.6	99	103	70-131	4	20	
Trichlorofluoromethane	ug/L	<1.0	50	50	55.1	56.6	110	113	66-150	3	20	
Vinyl chloride	ug/L	<1.0	50	50	44.9	46.6	90	93	46-134	4	20	
Xylene (Total)	ug/L	<3.0	150	150	152	159	101	106	70-134	5	20	
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						110	112	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60485212.4 KEP PERIMETER SAMP.
Pace Project No.: 40178074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40178074001	**TRIP BLANK**	EPA 8260	303849		
40178074002	**MW-101**	EPA 8260	303849		
40178074003	**MW-105**	EPA 8260	303849		
40178074004	**MW-107**	EPA 8260	303849		
40178074005	**MW-115**	EPA 8260	303849		
40178074006	**MW-114**	EPA 8260	303849		
40178074007	**MW-114-DUP**	EPA 8260	303849		
40178074008	**MW-102**	EPA 8260	303849		
40178074009	**MW-103**	EPA 8260	303849		
40178074010	**MW-108**	EPA 8260	303849		
40178074011	**MW-108-DUP**	EPA 8260	303849		
40178074012	**MW-31**	EPA 8260	303849		
40178074013	**PZ-118**	EPA 8260	303849		
40178074014	**MW-112**	EPA 8260	303849		
40178074015	**MW-111**	EPA 8260	303849		
40178074016	**MW-116**	EPA 8260	303849		
40178074017	**PZ-116**	EPA 8260	303849		
40178074018	**MW-109**	EPA 8260	303849		
40178074019	**MW-79**	EPA 8260	303849		
40178074020	**MW-81**	EPA 8260	303849		
40178074021	**MW-113**	EPA 8260	303817		
40178074022	**MW-117**	EPA 8260	303817		
40178074023	**PZ-117**	EPA 8260	303817		
40178074024	**MW-110**	EPA 8260	303851		
40178074025	**MW-44**	EPA 8260	303851		
40178074026	**MW-80**	EPA 8260	303851		
40178074027	**MW-82**	EPA 8260	303851		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40178074

Page: 1 of 3

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.Altenbach@aecom.com	Purchase Order No.:	Pace Quote Reference:
Phone: 414-577-1363 Fax:	Project Name: KEP Parimeter Sampling	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 60485212.4	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER
__UST __RCRA OTHER____

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC X WI OTHER____

Filtered (Y/N): N

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	Trip Blank	WT	G	10/17/18	0800	–	–		2				X					X		001
2	MW-101	WT	↓	10/17/18	1150	↓	↓		3				↓					↓		002
3	MW-105	WT		10/17/18	1245				↓											003
4	MW-107	WT		10/17/18	1400															004
5	MW-115	WT		10/17/18	1500															005
6	MW-114	WT		10/17/18	1630															006
7	MW-114-Dup	WT		10/17/18	1630															007
8	MW-102	WT		10/17/18	1310															008
9	MW-103	WT		10/17/18	1200															009
10	MW-108	WT		10/17/18	1430															010
11	MW-108-Dup	WT		10/17/18	1430															011
12	MW-31	WT	↓	10/17/18	1535	↓	↓		↓				↓					↓		012

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Joel Mackinney AECOM	10/19/18	930	Mary Fannin	10/19/18	11:25		Y/N	Y/N	Y/N
Mary Fannin	10/19/18	1215	[illegible] Pace	10/19/18	1215		Y/N	Y/N	Y/N
[illegible] Pace	10/19/18	1520	Susan [illegible] Pace	10/19/18	1520	ROI	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
						Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zach Albert / [illegible] Joel Mackinney

SIGNATURE of SAMPLER: Joel Mackinney DATE Signed (MM/DD/YY): 10/18/18

Pace Analytical™ www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40178074

Page: 2 of 3

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.Altenbach@aecom.com	Purchase Order No.:	Pace Quote Reference:
Phone: 414-577-1363 Fax:	Project Name: KEP Parimeter Sampling	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 60485212.4	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES _X_GROUND WATER __DRINKING WATER
__UST __RCRA OTHER______

SITE LOCATION: __GA __IL __IN __MI __NC __OH __SC _X_WI OTHER___

Filtered (Y/N): N

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	PZ-118	WT	G	10/17/18	1650				3				X					X		013
2	MW-112	WT	↓	10/18/18	~~0825~~ 0900				↓				↓					↓		014
3	MW-111	WT	↓	10/18/18	1000				↓				↓					↓		015
4	MW-116	WT	↓	10/18/18	1045				↓				↓					↓		016
5	PZ-116	WT	↓	10/18/18	1135				↓				↓					↓		017
6	MW-109	WT	↓	10/18/18	1245				↓				↓					↓		018
7	MW-79	WT	↓	10/18/18	1410				↓				↓					↓		019
8	MW-81	WT	↓	10/18/18	1505				↓				↓					↓		020
9	MW-113	WT	↓	10/18/18	0915				↓				↓					↓		021
10	MW-117	WT	↓	10/18/18	1115				↓				↓					↓		022
11	PZ-117	WT	↓	10/18/18	1025				↓				↓					↓		023
12	MW-110	WT	↓	10/18/18	1215				↓				↓					↓		024

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Joel Mckinney AECOM	10/19/18	930	Mary Fannin	10/19/18	11:25		Y/N	Y/N	Y/N
Mary Fannin	10/19/18	1215	[illegible] Pace	10/19/18	1215		Y/N	Y/N	Y/N
[illegible] Pace	10/19/18	1520	Susan [illegible]	10/19/18	1520	ROI	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zach Albert Joel Mackinney

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 10/18/18

Temp in °C | Received on Ice | Custody Sealed Cooler | Samples Intact

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CHAIN-OF-CUSTODY / Analytical Request Document

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40178074

Page: 3 of 3

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.Altenbach@aecom.com	Purchase Order No.:	Pace Quote Reference:
Phone: 414-577-1363 Fax:	Project Name: KEP Parimeter Sampling	Pace Project Manager: Chris Hyska
Requested Due Date/TAT: Standard	Project Number: 60485212.4	Pace Profile #: (2430) Kenosha work

REGULATORY AGENCY

__NPDES X GROUND WATER __DRINKING WATER

__UST __RCRA OTHER_____

SITE LOCATION __GA __IL __IN __MI __NC __OH __SC X WI OTHER___

Filtered (Y/N): N

Requested Ana

Pace Project Number Lab I.D.

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number Lab I.D.
1	MW-44	WT	G	10/18/18	1330				3				X					X		025
2	MW-80	WT	↓	10/19/18	1440				↓				↓					↓		026
3	MW-82	WT	↓	10/19/18	1535				↓				↓							027
4		WT																		
5		WT																		
6		WT																		
7		WT																		
8		WT																		
9		WT																		
10		WT																		
11		WT																		
12		WT																		

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Joel Mackinney AECOM	10/19/18	930	Mary Fannin	10/19/18	11:25
Mary Fannin	10/19/18	1215	[illegible]	10/19/18	1215
[illegible] pace	10/19/18	1520	Susan Hilyer Pace	10/19/18	1520

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
RT	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Zach Ahmt Joel Mackinney

SIGNATURE of SAMPLER: Zach Ahmt Joel Mackinney DATE Signed (MM / DD / YY): 10/18/18

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

Sample Preservation Receipt Form

Client Name: AECOM Project # 40178074

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		3															2.5 / 5 / 10
012																		3															2.5 / 5 / 10
013																		3															2.5 / 5 / 10
014																		3															2.5 / 5 / 10
015																		3															2.5 / 5 / 10
016																		3															2.5 / 5 / 10
017																		3															2.5 / 5 / 10
018																		3															2.5 / 5 / 10
019																		3															2.5 / 5 / 10
020																		3															2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : □Yes ☒No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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

Sample Preservation Receipt Form

Client Name: AECOM

Project #: 40178074

Pace Lab #	Glass							Plastic							Vials						Jars			General									
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
021																		3															2.5 / 5 / 10
022																		3															2.5 / 5 / 10
023																		3															2.5 / 5 / 10
024																		3															2.5 / 5 / 10
025																		3															2.5 / 5 / 10
026																		3															2.5 / 5 / 10
027																		3															2.5 / 5 / 10
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																																	2.5 / 5 / 21
																																	2.5 / 5 / 22
																																	2.5 / 5 / 23

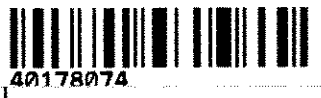
Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: AECOM

Project #:

WO#: 40178074



Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☒ Pace Other: _____

Tracking #: _____ 1649 TB

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 - N/A **Type of Ice:** ☒ Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: _____

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

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

Person examining contents:
Date: 10-19-18
Initials: _____

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 10/22/18