

January 10, 2022

Our Reference
60654919Shelly Billingsley
City of Kenosha
Director of Public Works
625 52nd Street, Room 305
Kenosha, Wisconsin 53140**KEP Perimeter Groundwater Sample Results - October 2021**

Dear Ms. Billingsley

AECOM conducted a semi-annual groundwater sampling event between October 25th and 27th, 2021, under Task Order 158-010421 for the City of Kenosha, at the former Kenosha Engine Plant (KEP). Fourteen perimeter groundwater monitoring wells (MW-69R, MW-70R, MW-71R, MW-101, MW-102, MW-103, MW-105, MW-107, MW-109, MW-110, MW-111, MW-112, MW-116, MW-117) and three piezometers (PZ-69R, PZ-116, and PZ-117) were sampled during the October 2021 event. Six monitoring wells and one piezometer (MW-31, MW-44, MW-108, MW-113, MW-114, MW-115, PA-118) and the four wells at the Jockey site (MW-79 through MW-82) were not sampled during the October 2021 event because groundwater remedial injections were occurring in the areas of these wells (Remediation Areas 2 and 4). These wells will be sampled after the injections are complete and, in the April 2022, semi-annual sampling event.

Prior to the beginning of remediation, groundwater elevation measurements were collected from the perimeter monitoring wells and piezometers plus an additional monitoring well, MW-206. 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 was northeasterly across the site at the water table and slightly more northerly at the clay-till interface, based on the depth to groundwater measurements on October 6, 2021. These flow directions are somewhat consistent with the data provided in prior groundwater elevation measurement events. Contoured groundwater elevations for October 2021, 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 dedicated 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 17 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 Health 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 generally 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 in Table 3. The laboratory analytical report is also attached.

Quality control samples were collected to assess laboratory precision and accuracy. Two trip blanks were submitted for analysis and VOCs were not detected. Field duplicate samples were collected at monitoring well MW-117 and piezometer PZ-117 and submitted for analysis. MW-117 and PZ-117 had no detections above the laboratory detection limits in both the original and the duplicate sample.

VOCs were generally not detected in the perimeter wells except for MW-101, MW-105, and PZ-116. The following groundwater quality standard exceedances were identified in the groundwater samples analyzed in October 2021:

<u>ES exceedances</u>	<u>PAL exceedances</u>
MW-105 – Vinyl Chloride (VC)	None
PZ-116 – VC	

Concentration trends were not evaluated as part of this groundwater sampling event because of the active treatment of the groundwater plume occurring at the KEP. The Jockey wells will be sampled as part of the post-remediation monitoring program.

Groundwater monitoring will continue on a semi-annual basis in 2022 as part of the post-remediation groundwater monitoring plan. Please contact us if you have questions.

Yours sincerely,



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In conformance with NR 712.09 submittal certification requirements: "I, Lanette Altenbach, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

enclosures: 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
Figure 1 – Perimeter Monitoring Well and Piezometer Locations
Figure 2 – Potentiometric Surface – Perimeter Water Table Monitoring Wells – October 2021
Figure 3 – Potentiometric Surface – Perimeter Piezometers – October 2021
Figure 4 – VOCs Detected in Groundwater Above Enforcement Standards – October 2021
Laboratory Analytical Report

cc: Paul Grittner, WDNR

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

Well Number	MW-31		MW-44		MW-69R		PZ-69R		MW-70R		MW-71R		MW-101	
Ground Elevation (ft)	624.45		624.49		625.43		625.45		626.44		627.38		624.01	
Top of PVC Casing (TOC) Elevation (ft)	627.42		624.194		627.72		627.93		628.82		630.10		623.46	
Top of Screen Elevation (ft)	615.72		619.724		619.02		603.93		620.42		621.40		620.56	
Screen Length (ft)	10		10		10		2.5		10		10		10	
TOC to Bottom of Well (ft) ^A	21.7		14.47		18.7		26.5		18.4		18.7		12.9	
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	NM	--	NM	--	NM	--	NM	--	5.40	618.06
9/22/2014	13.17	614.25	10.95	613.24	NM	--	NM	--	NM	--	NM	--	5.96	617.50
12/1/2014	13.13	614.29	11.20	612.99	NM	--	NM	--	NM	--	NM	--	6.07	617.39
3/20/2015	12.49	614.93	11.15	613.04	NM	--	NM	--	NM	--	NM	--	5.75	617.71
6/23/2015	12.18	615.24	NM	--	NM	--	NM	--	NM	--	NM	--	5.44	618.02
9/21/2015	12.24	615.18	10.37	613.82	NM	--	NM	--	NM	--	NM	--	5.16	618.30
4/13/2016	9.89	617.53	9.51	614.68	NM	--	NM	--	NM	--	NM	--	5.24	618.22
11/28/2016	12.51	614.91	10.80	613.39	NM	--	NM	--	NM	--	NM	--	6.50	616.96
5/16/2018	9.50	617.92	9.71	614.48	NM	--	NM	--	NM	--	NM	--	4.85	618.61
10/17/2018	11.71	615.71	9.92	614.27	NM	--	NM	--	NM	--	NM	--	5.58	617.88
4/16/2019	12.18	615.24	10.16	614.03	NM	--	NM	--	NM	--	NM	--	5.74	617.72
10/8/2019	9.76	617.66	8.96	615.23	NM	--	NM	--	NM	--	NM	--	4.72	618.74
4/14/2020	11.36	616.06	9.90	614.29	NM	--	NM	--	NM	--	NM	--	5.28	618.18
11/3/2020	13.36	614.06	11.20	612.99	NM	--	NM	--	NM	--	NM	--	6.66	616.80
4/5/2021	11.95	615.47	10.49	613.70	11.91	615.81	12.10	615.83	13.01	610.45	14.31	609.35	5.94	617.52
6/16/2021	13.47	613.95	11.36	612.83	12.83	614.89	13.10	614.83	14.04	609.42	15.49	608.17	7.08	616.38
10/6/2021	14.56	612.86	12.21	611.98	13.64	614.08	13.82	614.11	14.93	608.53	16.44	607.22	7.60	615.86
10/25/2021	nm	--	nm	--	13.59	614.13	13.86	614.07	14.85	608.61	16.32	607.34	7.21	616.25

ft = feet

Note: MW-69, PZ-69, MW-70 and MW-71 were damaged during soil remediation activities and were replaced.

^A = as measured inside well

NI = Not Installed

NM = Not Measured

-- no elevation

nm = not measured due to active remediation

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

Well Number	MW-102		MW-103		MW-105		MW-107		MW-108		MW-109		MW-110	
Ground Elevation (ft)	624.18		625.74		623.87		625.74		623.742		625.19		622.88	
Top of PVC Casing (TOC) Elevation (ft)	623.66		625.33		623.35		624.59		623.262		624.62		622.42	
Top of Screen Elevation (ft)	621.06		622.04		619.65		620.19		619.162		618.37		618.42	
Screen Length (ft)	10		10		10		10		10		10		10	
TOC to Bottom of Well (ft) [^]	12.6		13.29		13.7		14.4		14.1		16.25		14	
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	4.92	618.74	5.10	620.23	8.20	615.15	NM	--	4.38	618.88	13.71	610.91	5.69	616.73
9/22/2014	5.33	618.33	5.41	619.92	8.46	614.89	10.74	613.85	7.74	615.52	13.88	610.74	7.20	615.22
12/1/2014	5.38	618.28	5.45	619.88	8.58	614.77	8.36	616.23	7.10	616.16	13.86	610.76	7.18	615.24
3/20/2015	5.51	618.15	5.56	619.77	8.42	614.93	10.94	613.65	3.53	619.73	13.96	610.66	5.48	616.94
6/23/2015	5.06	618.60	5.25	620.08	7.83	615.52	9.73	614.86	5.62	617.64	13.73	610.89	6.14	616.28
9/21/2015	4.94	618.72	5.12	620.21	6.92	616.43	9.77	614.82	6.60	616.66	13.73	610.89	6.67	615.75
4/13/2016	4.83	618.83	5.05	620.28	7.61	615.74	9.13	615.46	3.49	619.77	13.61	611.01	4.93	617.49
11/28/2016	4.80	618.86	NM	--	8.54	614.81	NM	--	7.20	616.06	13.88	610.74	7.20	615.22
5/16/2018	3.41	620.25	3.59	621.74	7.86	615.49	9.26	615.33	2.92	620.34	13.52	611.10	3.24	619.18
10/17/2018	4.48	619.18	4.77	620.56	7.64	615.71	9.35	615.24	4.69	618.57	13.65	610.97	5.43	616.99
4/16/2019	4.70	618.96	4.81	620.52	8.17	615.18	9.92	614.67	3.64	619.62	13.73	610.89	5.78	616.64
10/8/2019	4.35	619.31	4.60	620.73	7.50	615.85	8.97	615.62	3.48	619.78	13.29	611.33	4.81	617.61
4/14/2020	4.94	618.72	5.03	620.30	8.06	615.29	9.59	615.00	4.06	619.20	13.59	611.03	6.25	616.17
11/3/2020	5.49	618.17	5.49	619.84	10.21	613.14	12.30	612.29	7.92	615.34	14.05	610.57	7.98	614.44
4/5/2021	5.35	618.31	5.36	619.97	10.11	613.24	11.68	612.91	4.76	618.50	13.92	610.70	6.65	615.77
6/16/2021	5.80	617.86	5.74	619.59	10.33	613.02	12.64	611.95	9.34	613.92	14.32	610.30	8.37	614.05
10/6/2021	6.13	617.53	6.15	619.18	11.85	611.50	13.82	610.77	10.09	613.17	14.48	610.14	9.52	612.90
10/25/2021	5.67	617.99	5.50	619.83	10.66	612.69	13.66	610.93	nm	--	14.10	610.52	8.74	613.68

ft = feet

[^] = as measured inside well

NI = Not Installed

NM = Not Measured

-- no elevation

nm = not measured due to active remediation

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

Well Number	MW-111		MW-112		MW-113		MW-114		MW-115		MW-116		PZ-116	
Ground Elevation (ft)	621.41		621.61		623.17		622.82		623.71		623.29		623.27	
Top of PVC Casing (TOC) Elevation (ft)	621.04		621.18		622.81		622.28		623.39		622.73		622.87	
Top of Screen Elevation (ft)	618.44		617		619.3		618.85		619.23		619.69		596.45	
Screen Length (ft)	10		10		10		10		10		10		2.5	
TOC to Bottom of Well (ft) ^A	12.6		14.18		13.51		13.43		14.16		13.04		28.92	
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	6.71	614.33	4.36	616.82	9.60	613.21	6.41	615.87	5.21	618.18	6.61	616.12	7.15	615.72
9/22/2014	7.56	613.48	5.41	615.77	10.78	612.03	8.54	613.74	6.98	616.41	8.27	614.46	8.13	614.74
12/1/2014	7.31	613.73	4.91	616.27	10.61	612.20	8.44	613.84	6.84	616.55	7.94	614.79	8.11	614.76
3/20/2015	7.24	613.80	4.41	616.77	10.50	612.31	8.53	613.75	5.78	617.61	6.75	615.98	7.72	615.15
6/23/2015	6.88	614.16	4.42	616.76	NM	--	8.36	613.92	5.82	617.57	7.16	615.57	7.45	615.42
9/21/2015	7.04	614.00	4.18	617.00	9.93	612.88	8.40	613.88	5.90	617.49	7.05	615.68	7.91	614.96
4/13/2016	6.26	614.78	3.72	617.46	8.95	613.86	5.45	616.83	4.98	618.41	4.99	617.74	6.32	616.55
11/28/2016	7.69	613.35	4.78	616.40	11.15	611.66	8.34	613.94	6.28	617.11	8.05	614.68	8.32	614.55
5/16/2018	5.39	615.65	2.04	619.14	8.61	614.20	5.60	616.68	4.86	618.53	3.11	619.62	5.07	617.80
10/17/2018	6.79	614.25	3.72	617.46	10.16	612.65	8.12	614.16	5.09	618.30	6.23	616.50	7.00	615.87
4/16/2019	6.67	614.37	4.10	617.08	10.42	612.39	8.37	613.91	5.60	617.79	6.12	616.61	7.16	615.71
10/8/2019	6.26	614.78	3.23	617.95	9.01	613.80	6.33	615.95	5.01	618.38	4.16	618.57	6.04	616.83
4/14/2020	7.17	613.87	4.43	616.75	9.93	612.88	8.05	614.23	5.50	617.89	7.39	615.34	7.81	615.06
11/3/2020	8.24	612.80	5.93	615.25	10.88	611.93	8.38	613.90	7.38	616.01	9.25	613.48	9.23	613.64
4/5/2021	7.39	613.65	4.89	616.29	10.40	612.41	8.22	614.06	5.14	618.25	7.82	614.91	8.10	614.77
6/16/2021	8.31	612.73	6.63	614.55	11.11	611.70	8.50	613.78	7.67	615.72	9.64	613.09	9.40	613.47
10/6/2021	8.95	612.09	7.54	613.64	11.49	611.32	9.01	613.27	9.81	613.58	10.47	612.26	10.27	612.60
10/25/2021	7.78	613.26	5.07	616.11	nm	--	nm	--	nm	--	9.23	613.50	9.22	613.65

ft = feet

^A = as measured inside well

NI = Not Installed

NM = Not Measured

-- no elevation

nm = not measured due to active remediation

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

Well Number	MW-117		PZ-117		PZ-118		MW-206	
Ground Elevation (ft)	621.89		621.95		622.33		625.52	
Top of PVC Casing (TOC) Elevation (ft)	621.59		621.51		622.05		627.88	
Top of Screen Elevation (ft)	616.67		600.92		602.71		620.89	
Screen Length (ft)	10		2.5		2.5		10	
TOC to Bottom of Well (ft) ^A	14.92		23.09		21.84		16.99	
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)
5/8 - 5/20/2014	7.22	614.37	6.49	615.02	6.30	615.75	10.80	617.08
9/22/2014	8.44	613.15	8.11	613.40	8.21	613.84	10.99	616.89
12/1/2014	8.18	613.41	8.10	613.41	8.29	613.76	11.12	616.76
3/20/2015	7.85	613.74	7.65	613.86	7.82	614.23	11.08	616.80
6/23/2015	7.82	613.77	7.59	613.92	6.96	615.09	10.46	617.42
9/21/2015	7.80	613.79	7.95	613.56	7.24	614.81	9.99	617.89
4/13/2016	7.10	614.49	6.33	615.18	5.44	616.61	5.33	622.55
11/28/2016	8.19	613.40	8.32	613.19	8.19	613.86	NM	--
5/16/2018	5.88	615.71	5.78	615.73	5.41	616.64	5.28	622.60
10/17/2018	7.71	613.88	7.37	614.14	7.20	614.85	4.98	622.90
4/16/2019	7.23	614.36	7.17	614.34	7.49	614.56	NM	--
10/8/2019	6.96	614.63	6.93	614.58	5.59	616.46	5.22	622.66
4/14/2020	7.93	613.66	7.20	614.31	7.00	615.05	5.79	622.09
11/3/2020	8.82	612.77	8.98	612.53	8.37	613.68	7.61	620.27
4/5/2021	8.12	613.47	7.90	613.61	7.42	614.63	6.96	620.92
6/16/2021	9.09	612.50	9.06	612.45	8.91	613.14	7.65	620.23
10/6/2021	9.63	611.96	9.72	611.79	9.76	612.29	8.34	619.54
10/25/2021	8.57	613.02	9.22	612.29	nm	--	nm	--

ft = feet

^A = as measured inside well

NI = Not Installed

NM = Not Measured

-- no elevation

nm = not measured due to active remediation

**Table 2
Groundwater Field Parameters
Former Kenosha Engine Plant
Kenosha, Wisconsin**

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)
MW-31	05/28/14	5.87	2.61	-148.3	1.507	9.14
	09/25/14	6.87	0.49	30.0	1.525	14.78
	11/30/16	7.52	1.23	79.9	1.287	11.47
	05/16/18	7.06	6.82	37.30	1.473	13.58
	10/18/18	6.91	2.37	42.4	1.879	15.09
	04/16/19	6.81	0.33	150.3	1.924	12.89
	10/09/19	6.79	4.16	39.0	1.34	17.09
	04/15/20	6.76	4.36	261	1.569	7.20
	11/04/20	6.95	0.22	49.1	1.147	16.47
	04/09/21	6.81	2.21	185.1	1158.4	10.18
Oct 2021	Not Sampled					
MW-44	05/21/12	7.33	0.42	-71.2	2.068	12.98
	05/22/14	6.73	1.06	188.3	4.129	11.33
	10/18/18	7.90	0.16	-102.7	2.562	19.61
	09/30/14	6.89	0.35	95.5	4.158	16.27
	12/04/14	7.03	0.89	-8.2	2.586	12.29
	09/23/15	6.97	0.86	16.9	4.675	18.05
	04/14/16	7.05	4.92	57.1	4.846	9.2
	11/30/16	7.56	1.19	-6.5	1.789	12.01
	05/17/18	7.13	1.98	25.0	2.627	12.28
	10/18/18	7.22	0.87	63.9	5.294	17.35
	04/16/19	6.86	1.13	176.4	4.491	11.21
	10/09/19	7.01	4.75	266.9	3.664	17.55
	04/15/20	7.03	2.65	114.8	4.406	8.47
	11/04/20	7.07	NM	188.9	2.763	15.81
	04/09/21	6.54	7.08	-2.2	88.01	8.87
Oct 2021	Not Sampled					
MW-69R	11/17/20	Replacement Well Drilled (MW-69R)				
	12/07/20	7.14	0.03	-74.7	0.84981	12.84
	04/06/21	6.99	0.27	-62	1394.7	15.25
	10/25/21	6.86	0.22	-56.1	1120.1	14.41
PZ-69R	11/17/20	Replacement Well Drilled (PZ-69R)				
	12/7/20	7.04	0.39	-78.6	4.0865	13.01
	04/06/21	7.09	0.6	-64.4	3721.9	15.25
	10/25/21	7.07	0.22	-102	4142.2	14.24
MW-70R	11/17/20	Replacement Well Drilled (MW-70R)				
	12/07/20	6.89	1.61	136.4	1.6568	13.15
	04/06/21	6.89	0.43	55	1517.1	13.85
	10/25/21	7	0.3	13.4	1248.7	15.42
MW-71R	11/17/20	Replacement Well Drilled (MW-71R)				
	12/07/20	6.6	5.06	112	0.00178	12.01
	04/06/21	6.94	0.77	92.3	1275	14.07
	10/25/21	6.51	0.16	23.3	2461.2	14.88
MW-101	01/23/12	7.68	4.28	3.50	0.756	8.8
	05/20/14	6.95	2.8	-156.30	1.454	14.07
	09/29/14	7.27	0.81	34.80	1.34	20.46
	12/05/14	7.3	1.22	-19	1.26	12.1
	09/22/15	7.29	2.19	29.2	1.411	20.62
	04/15/16	7.51	4.75	2.8	1.383	9.73
	11/28/16	7.26	1.23	11.2	1.481	13.14
	05/16/18	8.98	4.3	-75.4	1.514	12.75
	10/17/18	7.18	2.41	82.6	1.289	15.61
	04/16/19	7.15	4.74	168.07	1.490	11.26
	10/08/19	7.37	2.15	193.9	1.218	18.83
	04/14/20	7.19	4.92	200.73	1.768	7.54
	11/03/20	7.24	1.34	14.63	1.018	16.57
	04/05/21	5.66	10.72	207.3	0.242	13.91
10/25/21	6.84	0.39	25.1	2272.5	16.27	

**Table 2
Groundwater Field Parameters
Former Kenosha Engine Plant
Kenosha, Wisconsin**

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)
MW-102	01/26/12	7.09	0.67	-74.20	1.214	9.09
	05/16/14	6.98	3.56	-48.50	2.320	8.98
	09/29/14	7.01	0.14	-77.10	1.345	19.52
	12/04/14	7.29	0.39	-56.3	1.509	11.35
	03/25/15	7.23	0.54	-23.3	1.38	5.87
	09/24/15	7.05	0.71	-47.2	1.617	18.76
	04/15/16	7.31	0.47	38.2	2.414	9.28
	11/29/16	7.53	0.54	148	1.245	15.01
	05/16/18	7.35	7.36	38.10	1.829	11.87
	10/17/18	7.19	0.68	13.80	0.891	15.21
	04/16/19	8.09	2.10	60.6	3.176	9.61
	10/08/19	7.08	2.20	141.7	0.801	19.11
	04/14/20	7.23	0.58	182.26	1.591	7.61
	11/03/20	7.10	0.54	-38.80	1.246	16.64
04/05/21	6.69	11.28	118.10	0.223	12.30	
10/25/21	6.84	0.22	-9.90	2226.7	16.36	
MW-103	05/16/18	9.15	2.35	-83.60	1.221	12.20
	10/17/18	NM	0.4	439.60	1.463	17.21
	04/16/19	8.31	1.44	39.40	0.828	8.61
	10/08/19	6.94	0.61	64.20	1.145	19.79
	04/14/20	7.19	2.40	69.75	1.569	7.94
	11/03/20	7.01	3.11	-44.52	3.996	16.3
	04/05/21	7.19	0.51	-30.3	2.716	8.91
	10/25/21	6.78	1.02	-30.4	1686.9	16.86
MW-105	01/24/12	6.89	0.38	-87.00	2.997	11.06
	05/20/19	6.48	0.47	-237.20	3.898	13.43
	09/30/14	7.08	0.14	-62.10	2.787	16.75
	12/05/14	6.70	0.6	-53.10	2.368	12.78
	09/22/15	7.09	0.7	-9.10	0.899	18.25
	04/14/16	6.91	2.68	-23.10	2.731	9.42
	11/28/16	6.79	0.61	-90.50	1.845	13.23
	05/16/18	7.02	1.19	-96.70	1.893	13.72
	10/17/18	6.71	0.11	-41.00	2.254	15.18
	04/16/19	9.10	0.3	-20.30	1.408	9.23
	10/08/19	6.84	0.08	-56.80	1.978	16.63
	04/15/20	6.87	0.21	-23.91	1.682	7.30
	11/03/20	6.89	0.08	-90.85	1.942	15.79
	04/05/21	6.79	0.21	-63.20	1.467	8.98
10/25/21	6.78	0.34	-82.80	2686.700	15.85	
MW-107	05/16/18	9.36	1.43	-84.40	0.940	11.84
	10/17/18	6.63	0.3	-31.20	1.488	16.73
	04/16/19	8.39	0.61	31.10	0.914	9.70
	10/08/19	6.89	0.49	-29.50	1.176	17.99
	04/15/20	6.77	0.55	44.67	1.194	7.23
	11/03/20	6.83	0.22	-81.90	1.277	17.15
	04/05/21	6.95	1.28	16.70	0.920	11.36
	Oct 2021	Not Sampled				
MW-108	05/21/12	7.16	1.73	-65.00	4.583	13.19
	05/23/14	6.67	4.39	188.30	6.796	11.73
	09/30/14	6.85	0.36	80.90	4.932	16.16
	12/04/14	6.94	1.66	-3	4.386	10.4
	09/23/15	6.87	0.96	27.8	4.504	18.23
	04/14/16	7.33	4.65	90.8	4.674	8.53
	11/30/16	7.19	0.87	172.3	3.341	13.4
	05/17/18	6.97	4.42	108.9	3.831	12.57
	10/17/18	7.08	0.64	43.7	3.751	16.91
	04/16/19	6.9	6.00	170.53	4.499	13.09
	10/09/19	7.03	0.21	232.3	3.335	16.89
	04/14/20	7.00	3.09	97.86	5.294	7.94
	11/04/20	6.90	NM	184.3	3.886	15.13
	04/09/21	8.55	6.57	-97.5	41.07	9.1
Oct 2021	Not Sampled					

**Table 2
Groundwater Field Parameters
Former Kenosha Engine Plant
Kenosha, Wisconsin**

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)
MW-109	06/05/14	6.23	0.44	-26.20	0.831	11.59
	09/23/14	7.01	0.45	151.00	1.244	15.00
	12/05/14	6.7	0.75	-63.70	1.303	12.41
	09/23/15	7.05	0.34	-89.00	1.737	15.13
	04/15/16	7.21	0.64	11.40	1.641	10.83
	11/29/16	7.39	0.82	-1.80	1.326	13.82
	05/17/18	7.04	0.41	-35.20	0.924	12.05
	10/18/18	7.03	0.38	-100.10	0.895	14.03
	04/16/19	8.66	0.12	4.30	0.597	9.96
	10/08/19	6.90	1.34	-43.40	1.195	14.89
	04/14/20	7.26	0.30	-43.04	0.801	8.96
	11/04/20	7.12	NM	-94.05	0.876	15.29
	04/06/21	6.97	0.25	-55.40	0.873	11.25
10/26/21	7.07	0.23	-73.90	1391.3	15.49	
MW-110	05/22/14	7.02	9.23	59.00	0.538	10.15
	09/23/14	7.25	0.6	165.00	0.755	17.50
	12/05/14	7.26	2.7	-2.00	0.639	11.57
	09/23/15	7.05	0.68	239.00	0.557	23.82
	04/14/16	7.51	9.57	21.10	0.598	8.69
	11/29/16	7.59	1.95	108.00	0.498	14.39
	05/17/18	7.26	9.19	105.60	0.436	10.90
	10/18/18	7.99	6.51	55.60	0.762	16.60
	04/16/19	8.46	4.26	55.50	1.956	8.05
	10/08/19	7.05	5.53	158.50	1.739	17.42
	04/15/20	7.06	6.77	253.52	1.398	8.06
	11/03/20	7.08	0.78	53.26	0.853	17.12
	04/06/21	7.13	8.41	62.20	1.144	10.91
10/26/21	7.06	2.2	67.60	1400.8	15.84	
MW-111	05/21/14	7.05	1.81	74.30	0.977	10.83
	09/23/14	7.29	0.69	180.00	0.634	18.10
	12/05/14	7.3	1.38	-7.80	0.605	12.12
	09/23/15	7.88	0.75	169.00	0.449	22.68
	04/14/16	7.74	2.02	22.00	0.527	9.06
	11/29/16	7.23	3.82	64.70	0.34	14.16
	05/17/18	7.15	0.76	153.90	0.686	11.63
	10/18/18	6.9	0.2	-111.00	0.930	14.47
	04/16/19	8.31	3.64	59.20	1.977	8.28
	10/08/19	7.00	0.13	-23.60	1.038	17.86
	04/14/20	7.09	3.16	230.31	0.886	8.14
	11/03/20	6.96	0.14	-37.86	0.541	16.72
	04/06/21	7.01	0.87	23.00	1.328	11.82
10/26/21	7.03	0.26	38.10	867.31	16.44	
MW-112	11/03/11	6.85	0.5	-2.50	2.661	15.52
	05/21/14	7.19	0.74	43.10	2.699	11.28
	09/24/14	7.05	0.5	68.40	2.26	17.78
	12/05/14	7.25	3.69	-11.3	1.124	10.85
	09/22/15	7.18	3.55	4	1.482	17.92
	04/15/16	7.41	3.08	-13.7	1.49	9.07
	11/29/16	7.36	4	59.7	0.73	13.97
	05/17/18	7.11	2.29	174.1	1.208	12.15
	10/18/18	7.08	1.13	-13.6	1.676	14.94
	04/16/19	7.01	2.41	207.0	1.381	10.28
	10/08/19	7.06	2.37	27.9	1.790	18.24
	04/14/20	7.03	4.99	196.13	1.424	7.2
	11/03/20	7.11	1.05	42.55	1.424	16.93
04/06/21	7.35	4	74.5	1.309	13.3	
10/26/21	7.08	1.91	-7	1435.2	16.66	

**Table 2
Groundwater Field Parameters
Former Kenosha Engine Plant
Kenosha, Wisconsin**

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)
MW-113	08/18/11	7.27	0.73	-7.10	2.699	16.82
	05/28/14	7.11	1.73	-208.70	1.586	11.29
	09/25/14	7.7	0.24	283.00	3.400	16.40
	12/05/14	7.18	2.1	-24.9	1.992	11.72
	03/25/15	7.24	2.03	52.3	2.812	8.32
	09/22/15	7.23	0.8	-24.5	1.755	17.19
	04/15/16	7.45	3.55	187.9	1.459	9.01
	11/29/16	7.42	1.06	175.6	1.296	13.98
	05/16/18	7.25	6.33	37.3	1.144	11.1
	10/18/18	7.85	0.44	73.6	1.449	15.44
	04/16/19	7.16	3.07	170.13	1.939	11.00
	10/09/19	7.11	1.14	32.6	1.681	16.70
	04/15/20	7.13	1.96	213.41	1.756	9.17
	11/04/20	7.12	0.97	57.69	1.831	18.66
	04/06/21	7.31	2.44	137.90	1.578	11.85
Oct 2021	Not Sampled					
MW-114	08/18/11	7.44	0.32	-97.10	1.159	15.69
	05/28/14	6.95	4.13	-188.70	1.241	10.72
	09/29/14	7.21	0.18	-109.40	0.180	15.73
	12/04/14	7.29	0.23	-89.5	0.911	11.28
	03/25/15	7.34	0.32	-79.4	1.192	7.05
	09/22/15	7.13	0.3	-113.6	1.177	16.35
	04/15/16	6.94	4.24	-3.3	1.464	8.12
	11/28/16	7.22	0.75	-110.9	0.81	12.68
	05/16/18	7.3	NM	-36.5	1.102	11.99
	10/17/18	7.16	0.2	-109.6	1.115	14.22
	04/16/19	7.09	0.14	-79.59	1.041	9.66
	10/09/19	6.93	1.93	-9.4	1.103	16.84
	04/15/20	7.38	0.19	-76.74	1.048	7.44
	11/04/20	7.17	NM	-77.11	0.994	15.72
	04/05/21	7.22	0.43	-93.30	1.044	12.16
Oct 2021	Not Sampled					
MW-115	08/18/11	7.48	1.61	-14.00	0.985	17.97
	05/28/14	6.37	6.38	-144.70	1.191	9.94
	09/29/14	7.07	1.17	105.10	0.808	17.44
	12/04/14	7.21	3.55	-15.7	0.715	10.84
	09/22/15	7.08	1.98	71.8	0.941	18.06
	04/15/16	7.57	5.24	180.7	0.731	8.16
	11/28/16	7.17	3.66	85.7	0.731	12.9
	05/16/18	7.16	5.67	48.9	0.861	11.56
	10/17/18	6.96	3.8	24.3	0.888	15.73
	04/16/19	7.13	6.04	26.45	1.089	8.79
	10/09/19	6.81	2.16	195	0.977	18.17
	04/15/20	7.25	3.41	53.86	0.893	6.83
	11/04/20	7.07	NM	21.73	0.66	16.42
	04/06/21	7.16	7.93	143.40	0.807	11.32
	Oct 2021	Not Sampled				
MW-116	11/08/11	6.41	1.44	-25.80	0.776	13.67
	05/22/14	6.77	3.18	67.30	0.649	9.32
	09/23/14	7.07	0.39	151.00	0.808	15.20
	12/02/14	7	0.88	11.1	0.642	10.45
	09/23/15	6.86	2.06	45.9	0.993	15.79
	04/14/16	7.32	6.16	64.7	0.761	9.11
	11/29/16	7.23	1.59	156.2	0.682	13.25
	05/17/18	6.97	7.18	124.9	0.529	10.84
	10/18/18	6.85	1.99	-39.9	0.884	14.62
	04/17/19	7.56	4.46	68.4	0.537	7.49
	10/08/19	6.95	2.78	128.9	0.861	15.96
	04/14/20	6.98	2.38	255.24	0.698	8.15
	11/04/20	6.92	0.27	145.74	0.836	14.64
	04/06/21	6.83	2.94	134.7	0.688	11.34
	10/27/21	6.65	1.83	139.7	893.41	15.19

**Table 2
Groundwater Field Parameters
Former Kenosha Engine Plant
Kenosha, Wisconsin**

Well Name	Sample Date	pH Units	Dissolved Oxygen (mg/L)	ORP (mV)	Conductivity (mS/cm)	Temperature (°C)
PZ-116	11/08/11	6.23	0.4	-58.50	1.808	12.23
	05/22/14	6.98	0.29	38.50	2.01	11.63
	09/23/14	7.11	0.25	165.00	2.05	14.40
	12/02/14	7.06	0.24	-79.6	1.714	10.36
	09/23/15	6.96	0.26	-104.8	2.46	13.68
	04/14/16	7.03	0.99	-41.1	2.564	10.74
	11/29/16	6.97	0.75	-102.8	0.792	12.47
	05/17/18	6.97	0.4	-27.2	1.838	11.62
	10/18/18	6.93	0.8	-98.8	2.338	14.22
	04/17/19	8.00	0.38	-2.4	1.865	10.23
	10/08/19	6.97	0.1	-66.3	2.387	13.38
	04/14/20	7.11	0.11	3.87	2.07	10.40
	11/04/20	6.97	0.06	-67.00	2.075	13.71
	04/06/21	6.8	1.17	9.10	1.748	12.78
10/27/21	6.83	0.26	-63.40	2138.4	13.79	
MW-117	05/21/14	6.91	2.73	42.30	1.237	12.10
	09/24/14	7.09	0.61	51.80	1.253	15.94
	12/04/14	6.81	0.28	-48.30	1.202	12.6
	03/24/15	7.15	2.69	-9.40	1.033	7.71
	09/23/15	6.99	0.5	-102.60	1.276	16.55
	04/14/16	7.15	1.3	-44.70	1.065	9.52
	11/29/16	7.13	0.7	-67.60	0.887	14.58
	05/17/18	7.05	3.02	34.20	0.849	11.74
	10/18/18	7.86	0.18	-51.40	0.892	14.93
	04/17/19	6.93	2.80	35.96	1.413	8.30
	10/08/19	7.04	0.10	-52.40	0.936	15.62
	04/14/20	6.90	0.15	58.16	0.768	8.85
	11/03/20	6.92	0.19	-75.17	1.044	16.11
	04/06/21	6.92	2.15	52.00	0.905	13.09
10/27/21	7.08	0.21	-135.30	1133.0	15.98	
PZ-117	05/21/14	6.98	0.11	-12.00	0.882	11.48
	09/24/14	7.05	0.43	-44.00	1.501	14.53
	12/04/14	6.9	0.48	-33.10	1.188	12.52
	03/24/15	7.3	0.54	-44.40	0.443	8.22
	09/23/15	6.94	0.3	-116.10	1.635	14.52
	04/14/16	7.31	0.54	-18.90	1.692	11
	11/29/16	7.49	0.41	-42.70	1.353	13.7
	05/17/18	7.05	0.51	-13.50	1.042	12.41
	10/18/18	7.71	0.35	-13.60	1.283	13.66
	04/17/19	NM	NM	NM	NM	NM
	10/08/19	7.05	0.09	-13.80	1.387	14.55
	04/14/20	6.84	1.18	144.95	1.247	7.92
	11/03/20	6.95	0.15	-69.93	1.33	14.91
04/07/21	6.38	10.52	203.20	1.37	12.57	
10/27/21	7.06	0.16	-51.40	1410.8	14.44	
PZ-118	05/28/14	6.73	3.17	-201.00	1.702	11.10
	09/25/14	7.07	0.11	301.00	5.500	14.80
	12/05/14	7.1	0.76	-56.20	1.504	12.69
	03/25/15	7.15	1.03	-37.10	2.089	8.66
	09/22/15	7	0.24	-95.10	2.050	16.30
	04/15/16	7.13	2.52	-60.30	2.198	9.50
	11/28/16	7.08	2.55	-3.10	1.404	12.87
	05/16/18	7.12	0.88	-59.90	1.292	12.79
	10/17/18	7.4	0.19	-37.80	1.714	14.34
	04/17/19	6.99	1.39	33.87	1.742	8.81
	10/09/19	6.97	0.09	-12.60	1.655	15.62
	04/15/20	6.86	0.15	65.49	2.120	8.38
	11/04/20	7.03	0.09	-75.38	1.657	17.37
	04/05/21	7.03	10.77	189.10	2.650	11.33
	Oct 2021	Not Sampled				

mg/l = milligrams per liter. mS/cm = microSiemens per centimeter
ft = feet mV = millivolts NM = Not Measured

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

		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)	
	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	
Location	Sample Date													
MW-31	5/28/2014	< 2.5	1.9 ^u	<u>3.2^J</u>	< 12.2	< 1.9	< 2.5	79.2	< 0.87	< 2.5	<u>28.8</u>	499	< 0.88	
	9/25/2014	< 0.5	< 0.24	<u>1.7^J</u>	< 2.4	< 0.37	< 0.5	97.8^J	< 0.17	< 0.5	<u>26.1^J</u>	63.8^J	< 0.18	
	12/3/2014	< 0.5	0.46 ^J	<u>2.9</u>	< 2.4	< 0.37	< 0.5	106	< 0.17	< 0.5	<u>35</u>	116	0.33^J	
	3/24/2015	< 2.5	< 1.2	<u>2.8^J</u>	< 12.2	< 1.9	< 2.5	79.8^J	< 0.87	< 2.5	<u>26.9</u>	361	< 0.88	
	11/30/2016	< 1	< 0.48	<u>2.9</u>	< 4.9	< 0.75	< 1	98.6	< 0.35	< 1	<u>42.7</u>	91.8	0.51^J	
	5/16/2018	< 5.0	< 2.4	< 4.1	< 2.3	< 3.7	< 5.0	<u>27</u>	< 1.7	< 5.0	15.0	807	< 1.8	
	10/17/2018	< 0.98	< 1.1	<u>1.3^J</u>	< 3.9	< 5.4	< 8.8	<u>17.9</u>	< 5.0	< 1.3	9.6 ^J	470	< 0.70	
	4/16/2019	< 0.24	0.31 ^J	<u>5.4</u>	< 0.97	< 1.3	< 2.2	99.1	< 1.2	< 0.33	<u>70.6</u>	117	0.37^J	
	10/9/2019	1.1	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.1	< 1.2	< 0.33	< 1.1	239	< 0.17	
	4/15/2020	0.32 ^J	< 0.27	<u>2.2</u>	< 0.97	< 1.3	< 2.2	<u>42.2</u>	< 1.2	< 0.33	<u>26.4</u>	133	< 0.17	
	11/4/2020	< 0.24	0.39 ^J	<u>5.6</u>	< 0.97	< 1.3	< 2.2	115	< 1.2	< 0.33	<u>87.5</u>	180	< 0.17	
	4/9/2021	< 0.61	< 0.59	<u>4.3</u>	< 2.4	< 2.8	< 3.3	70.7	< 2.3	< 0.82	<u>54.5</u>	92.6	< 0.35	
		Oct 2021	Not Sampled											
	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	
10/9/2019		< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17	
4/14/2020		< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17	
11/4/2020		< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17	
4/9/2021		< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
		Oct 2021	Not Sampled											
MW-69R		12/7/2020	< 0.24	< 0.27	< 0.24	< 0.24	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	4/6/2021	< 0.30	< 0.30	< 0.58	< 0.36	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
	10/25/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
PZ-69R	12/7/2020	< 0.24	< 0.27	< 0.24	< 0.24	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17	
	4/6/2021	< 0.30	< 0.30	< 0.58	< 0.36	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
	10/25/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
MW-70R	12/7/2020	< 0.24	< 0.27	< 0.24	< 0.24	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17	
	4/6/2021	< 0.30	< 0.30	< 0.58	< 0.36	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
	10/25/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
MW-71R	12/7/2020	< 0.24	< 0.27	< 0.24	< 0.24	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17	
	4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
	10/25/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	

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

		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)
	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
Location	Sample Date												
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
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	10/8/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/14/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	11/3/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17
10/26/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
MW-113	8/18/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	< 2.4	< 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
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	10/9/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/15/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
Oct 2021	Not Sampled												
MW-114	8/18/2011	< 0.9	< 0.75	< 0.57	< 0.91	< 0.97	0.33 ^J	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	0.67 ^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	
	9/29/2014	< 0.5	< 0.24	< 0.41	< 2.4	< 0.37	< 0.5	3.8	< 0.17	< 0.5	< 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	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	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	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
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	2.1	< 1.2	< 0.33	< 1.1	< 0.26	10.1
	10/9/2019	2.3	1.4	< 0.24	< 0.97	< 1.3	< 2.2	2.4	< 1.2	< 0.33	< 1.1	6.9	10.9
	4/15/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.6	< 1.2	< 0.33	< 0.46	< 0.26	10.4
11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.9	< 1.2	< 0.33	< 0.46	< 0.26	12	
4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	1.5	< 1.1	< 0.41	< 0.53	< 0.32	13.1	
Oct 2021	Not Sampled												

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

		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)
	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
Location	Sample Date												
MW-114 DUP	5/28/2014	2.6	1.6	< 0.41	< 2.4	0.55 ^J	< 0.5	<u>9.5</u>	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	<u>0.85^J</u>	< 2.4	< 0.37	< 0.5	<u>49.1</u>	< 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
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.7	< 1.2	< 0.33	< 1.1	< 0.26	10.7
	10/9/2019	2.4	1.3	< 0.24	< 0.97	< 1.3	< 2.2	2.7	< 1.2	0.43^J	< 1.1	7.0	9.6
	4/15/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.5	< 1.2	< 0.33	< 0.46	< 0.26	9.9
	11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	1.5	< 1.2	< 0.33	< 0.46	< 0.26	10
4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	1.2	< 1.1	< 0.41	< 0.53	< 0.32	12.3	
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
	4/16/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	10/9/2019	0.53^J	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/15/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
Oct 2021	Not Sampled												
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
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	10/8/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/14/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
10/27/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	

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

		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)
	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
Location	Sample Date												
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
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	0.61^J
	10/8/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	0.87^J
	4/14/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	0.69^J
	11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	0.64^J
4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	0.20^J	
10/27/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	0.56^J	
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
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	10/8/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/14/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	11/3/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	4/6/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17
10/27/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17	
MW-117 DUP	10/27/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 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
	10/8/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 1.1	< 0.26	< 0.17
	4/14/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	11/3/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	< 0.27	< 1.2	< 0.33	< 0.46	< 0.26	< 0.17
	4/7/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17
	10/27/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17

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

		1,1,1-Trichloro ethane (ug/L)	1,1-Dichloro ethane (ug/L)	1,1-Dichloro ethene (ug/L)	Bromo methane	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)
	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
Location	Sample Date												
PZ-117 DUP	4/7/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 0.17
	10/27/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	< 0.47	< 1.1	< 0.41	< 0.53	< 0.32	< 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	<u>21.4</u>	< 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	<u>20.4</u>	< 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	<u>21.5</u>	< 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	<u>8.9</u>	< 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	<u>10.4</u>	< 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
	4/17/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	2.6	< 1.2	< 0.33	< 1.1	< 0.26	1.8
	10/9/2019	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	3.9	< 1.2	< 0.33	< 1.1	< 0.26	3.7
	4/15/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	<u>12.8</u>	< 1.2	< 0.33	< 0.46	< 0.26	4.5
	11/4/2020	< 0.24	< 0.27	< 0.24	< 0.97	< 1.3	< 2.2	<u>13.8</u>	< 1.2	< 0.33	< 0.46	< 0.26	8.8
	4/7/2021	< 0.30	< 0.30	< 0.58	< 1.2	< 1.4	< 1.6	6.9	< 1.1	< 0.41	< 0.53	< 0.32	3.1
	Oct 2021		Not Sampled										

Notes:

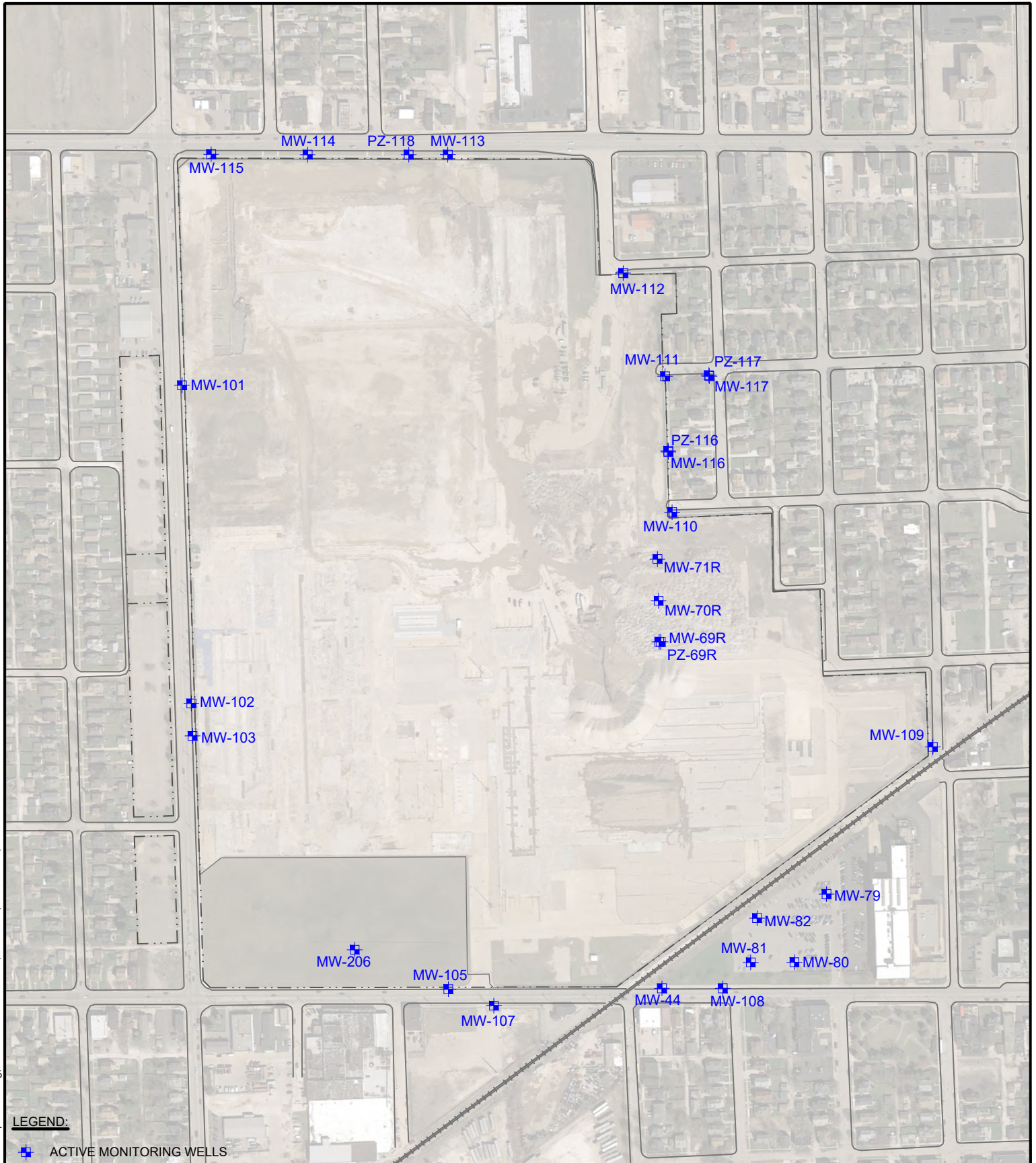
ug/L = micrograms per liter

^J = Estimated value

PAL - Preventive Action Limit, Wisconsin Administrative Code NR 140.10 Table 1, June 2021 exceedances are underlined italics.

ES - Enforcement Standard, Wisconsin Administrative Code NR 140.10 Table 1, June 2021 exceedances are **bold**.

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LEGEND:
 ■ ACTIVE MONITORING WELLS

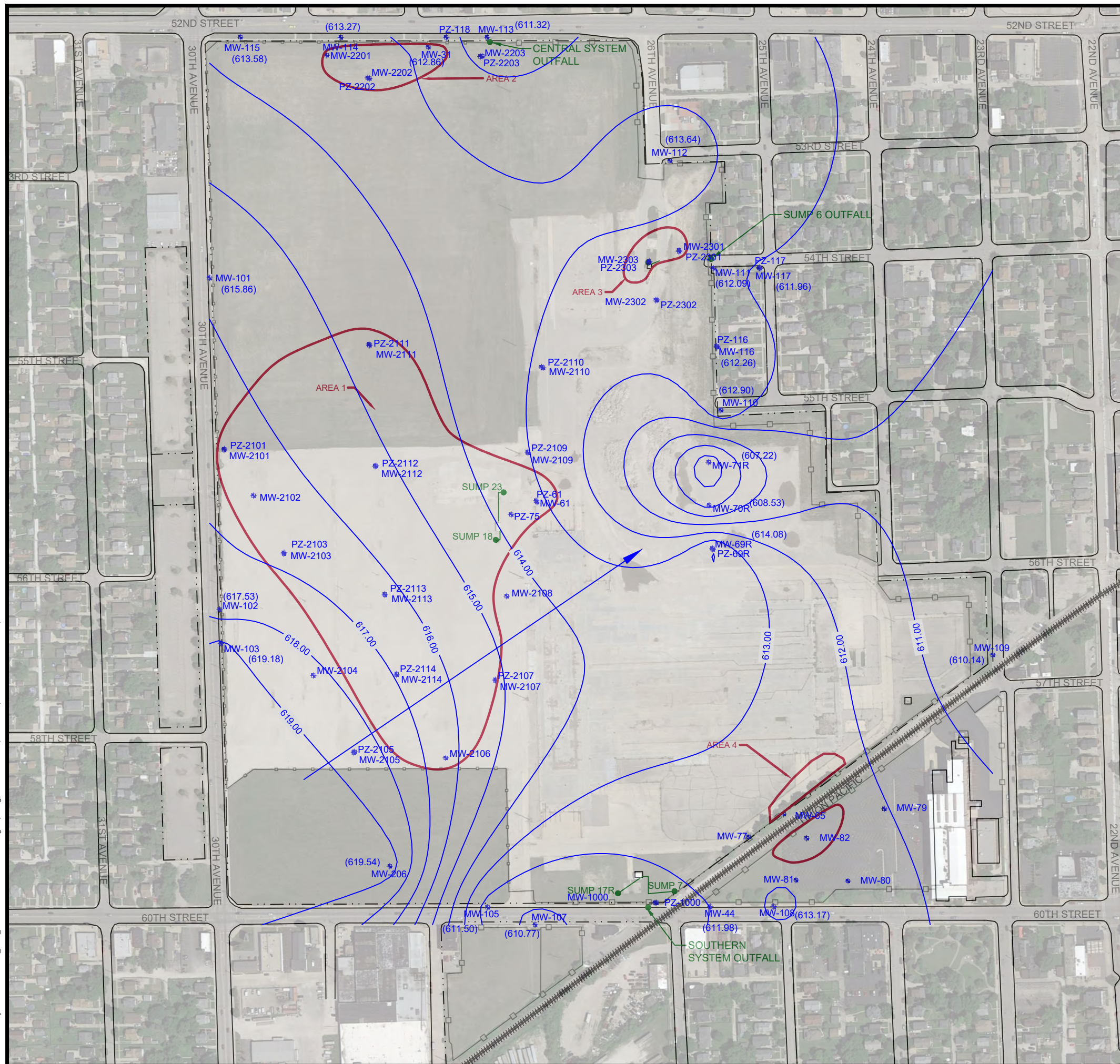


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PERIMETER MONITORING WELL LOCATION MAP
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn :	CAS	3/23/2021
Checked:	LLA	3/23/2021
Approved:	LLA	3/23/2021
PROJECT NUMBER	60654919	
FIGURE NUMBER	1	

File: L:\DCS\Projects\60646\604\900_CAD_GIS\CAD\KEP - GW Rem Design Rpt.dwg; USER: SCHOLZ, CAROLYN; PLOTTED: December 28, 2021 - 11:11 AM



LEGEND

- APPROXIMATE SITE BOUNDARY
- ++++ RAILROAD
- EXISTING FENCE
- REMEDIATION BUILDING
- SUMPS AND SANITARY OUTFALLS
- SUMP UTILITY LINES
- ⊕ MONITORING WELLS AND PIEZOMETERS - EXISTING PERIMETER MONITORING LOCATIONS
- ⊕ MONITORING WELLS AND PIEZOMETERS - PROPOSED REMEDIAL MONITORING LOCATIONS
- PLANNED REMEDIAL TREATMENT AREAS
- (613.50) GROUNDWATER ELEVATIONS
- 615.00 GROUNDWATER CONTOUR (INTERVAL AT 1.0 FT.)
- GROUNDWATER FLOW DIRECTION

NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 7/6/2018; DOWNLOADED ON 12/3/2018.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2018 AERIAL.

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**POTENTIOMETRIC SURFACE
 PERIMETER WATER TABLE MONITORING WELLS - OCTOBER 6, 2021
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**

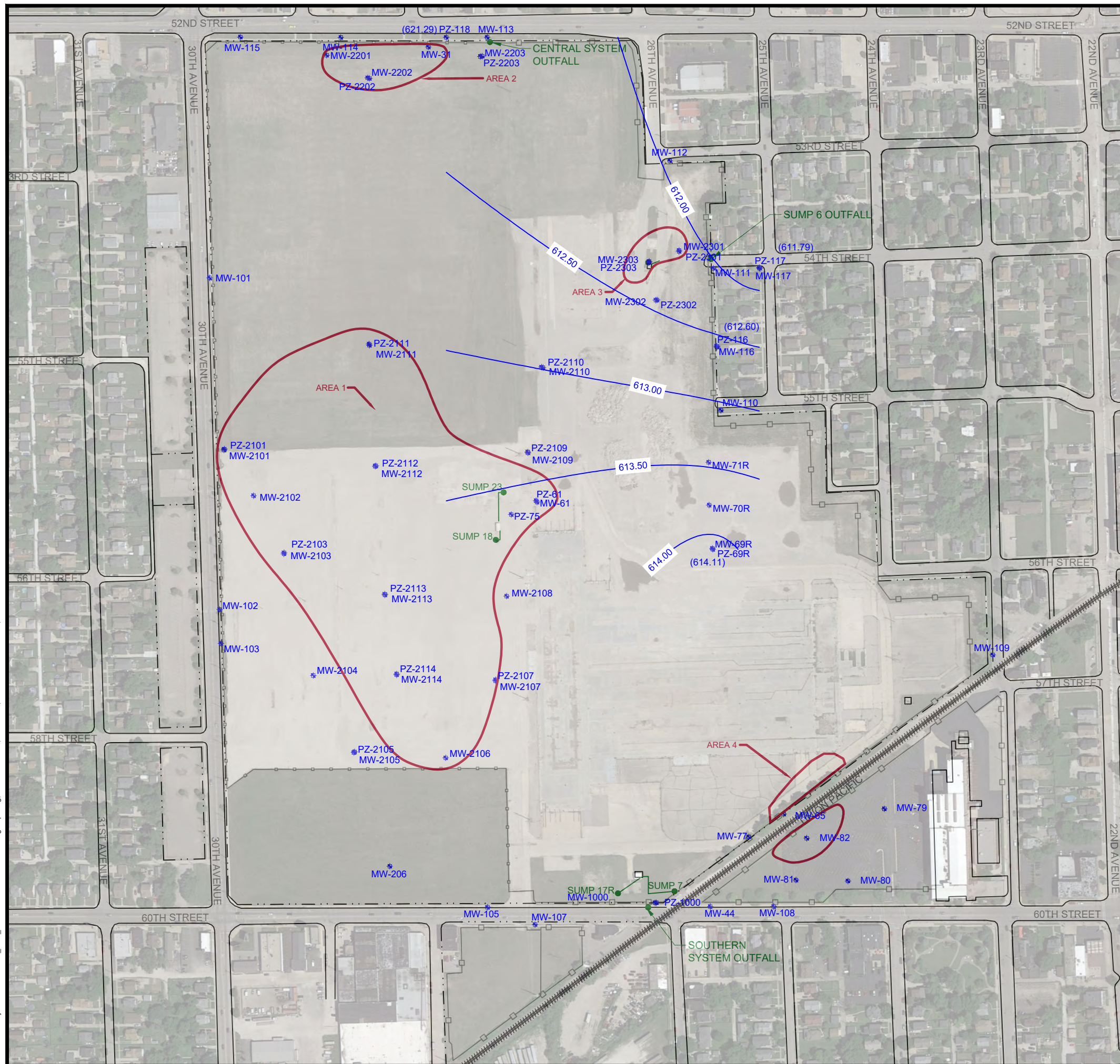
0' 150' 300' 600'

SCALE

N

Drawn :	CAS	12/28/2021
Checked:	LLA	12/28/2021
Approved:	LLA	12/28/2021
PROJECT NUMBER	60654919	
FIGURE NUMBER	2	

File: L:\DCS\Projects\60646\04\900_CAD_GIS\CAD\KEP - GW Rem Design Rpt.dwg; USER: SCHOLZ, CAROLYN; PLOTTED: December 28, 2021 - 11:11 AM



LEGEND

- APPROXIMATE SITE BOUNDARY
- ++++ RAILROAD
- - - EXISTING FENCE
- REMEDIATION BUILDING
- SUMPS AND SANITARY OUTFALLS
- SUMP UTILITY LINES
- ⊕ MONITORING WELLS AND PIEZOMETERS - EXISTING PERIMETER MONITORING LOCATIONS
- ⊕ MONITORING WELLS AND PIEZOMETERS - PROPOSED REMEDIAL MONITORING LOCATIONS
- PLANNED REMEDIAL TREATMENT AREAS
- (614.07) GROUNDWATER ELEVATIONS
- 613.00 GROUNDWATER CONTOUR (INTERVAL AT 1.0 FT.)
- GROUNDWATER FLOW DIRECTION

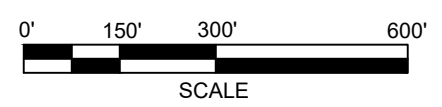
NOTES

1. AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, IMAGE DATED 7/6/2018; DOWNLOADED ON 12/3/2018.
2. BORDER DISCONTINUITIES ARE DUE TO ANGLE OF 2018 AERIAL.

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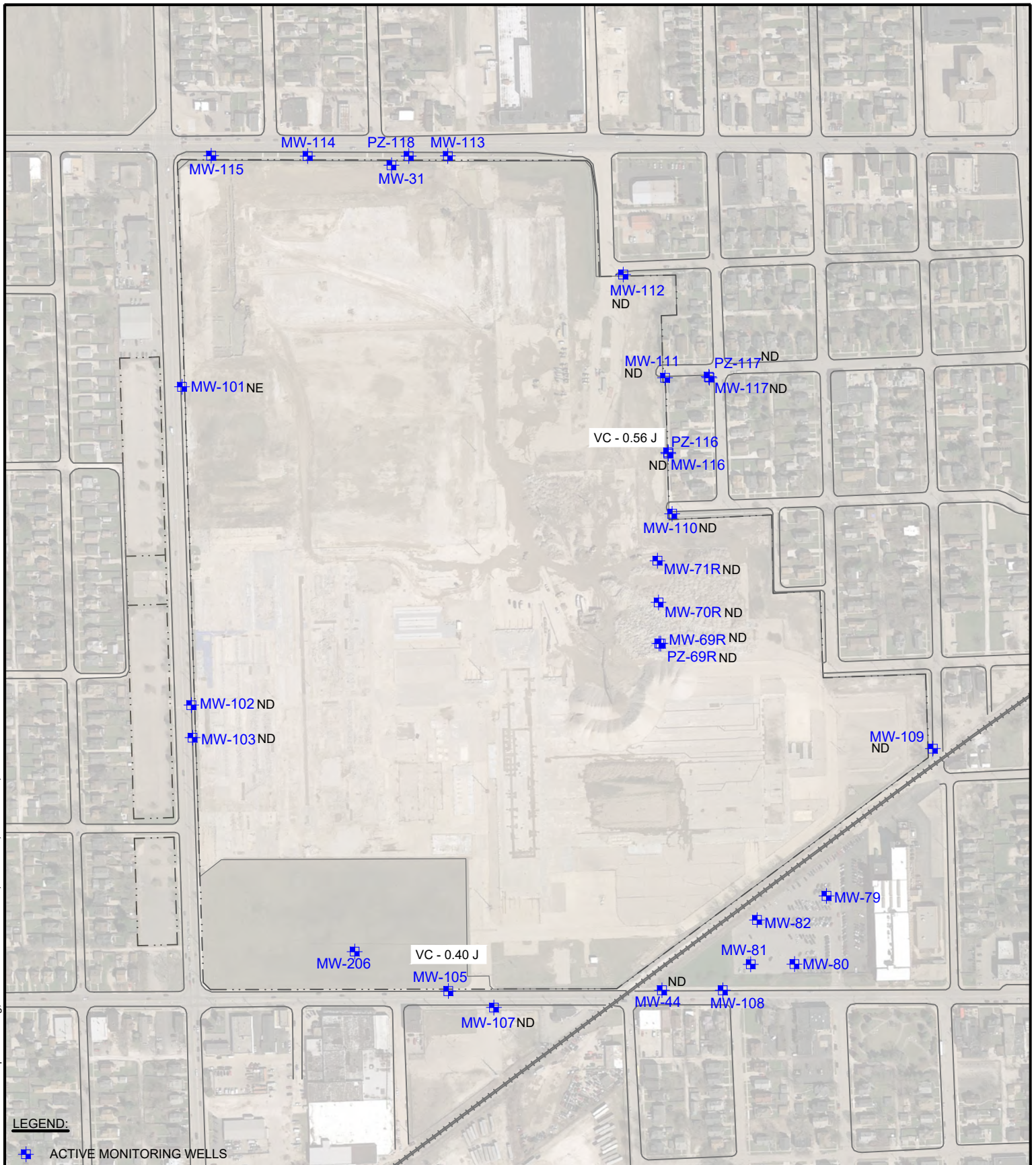
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**POTENTIOMETRIC SURFACE
 PERIMETER PIEZOMETERS - OCTOBER 6, 2021
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN**



Drawn :	CAS	12/28/2021
Checked:	LLA	12/28/2021
Approved:	LLA	12/28/2021
PROJECT NUMBER	60654919	
FIGURE NUMBER	3	

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LEGEND:
 ■ ACTIVE MONITORING WELLS



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VOLATILE ORGANIC COMPOUNDS DETECTED IN GROUNDWATER
 ABOVE ENFORCEMENT STANDARDS - OCTOBER 2021
 KENOSHA ENGINE PLANT
 CITY OF KENOSHA
 KENOSHA, WISCONSIN

Drawn :	CAS	12/28/2021
Checked:	LLA	12/28/2021
Approved:	LLA	12/28/2021
PROJECT NUMBER	60654919	
FIGURE NUMBER	4	

November 02, 2021

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

RE: Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Dear Lanette Altenbach:

Enclosed are the analytical results for sample(s) received by the laboratory on October 28, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

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

Sincerely,



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

Enclosures

cc: Keith Nielsen, AECOM



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40235953001	MW-69R	Water	10/25/21 10:10	10/28/21 08:15
40235953002	PZ-69R	Water	10/25/21 10:30	10/28/21 08:15
40235953003	MW-70R	Water	10/25/21 11:10	10/28/21 08:15
40235953004	MW-71R	Water	10/25/21 11:45	10/28/21 08:15
40235953005	MW-101	Water	10/25/21 12:45	10/28/21 08:15
40235953006	MW-102	Water	10/25/21 14:40	10/28/21 08:15
40235953007	MW-103	Water	10/25/21 13:40	10/28/21 08:15
40235953008	MW-105	Water	10/26/21 10:10	10/28/21 08:15
40235953009	MW-107	Water	10/26/21 15:05	10/28/21 08:15
40235953010	MW-109	Water	10/26/21 11:55	10/28/21 08:15
40235953011	MW-110	Water	10/26/21 13:00	10/28/21 08:15
40235953012	MW-111	Water	10/26/21 13:45	10/28/21 08:15
40235953013	MW-112	Water	10/26/21 14:45	10/28/21 08:15
40235953014	MW-116	Water	10/27/21 10:35	10/28/21 08:15
40235953015	PZ-116	Water	10/27/21 11:35	10/28/21 08:15
40235953016	MW-117	Water	10/27/21 12:35	10/28/21 08:15
40235953017	PZ-117	Water	10/27/21 13:30	10/28/21 08:15
40235953018	MW-117D	Water	10/27/21 12:40	10/28/21 08:15
40235953019	PZ-117D	Water	10/27/21 13:35	10/28/21 08:15
40235953020	TRIP BLANK	Water	10/25/21 07:00	10/28/21 08:15

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SAMPLE ANALYTE COUNT

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40235953001	MW-69R	EPA 8260	LAP	63	PASI-G
40235953002	PZ-69R	EPA 8260	LAP	63	PASI-G
40235953003	MW-70R	EPA 8260	LAP	63	PASI-G
40235953004	MW-71R	EPA 8260	LAP	63	PASI-G
40235953005	MW-101	EPA 8260	LAP	63	PASI-G
40235953006	MW-102	EPA 8260	LAP	63	PASI-G
40235953007	MW-103	EPA 8260	LAP	63	PASI-G
40235953008	MW-105	EPA 8260	LAP	63	PASI-G
40235953009	MW-107	EPA 8260	LAP	63	PASI-G
40235953010	MW-109	EPA 8260	LAP	63	PASI-G
40235953011	MW-110	EPA 8260	LAP	63	PASI-G
40235953012	MW-111	EPA 8260	LAP	63	PASI-G
40235953013	MW-112	EPA 8260	LAP	63	PASI-G
40235953014	MW-116	EPA 8260	LAP	63	PASI-G
40235953015	PZ-116	EPA 8260	LAP	63	PASI-G
40235953016	MW-117	EPA 8260	LAP	63	PASI-G
40235953017	PZ-117	EPA 8260	LAP	63	PASI-G
40235953018	MW-117D	EPA 8260	LAP	63	PASI-G
40235953019	PZ-117D	EPA 8260	LAP	63	PASI-G
40235953020	TRIP BLANK	EPA 8260	LAP	63	PASI-G

PASI-G = Pace Analytical Services - Green Bay

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SUMMARY OF DETECTION

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40235953005	MW-101					
EPA 8260	1,1-Dichloroethane	0.60J	ug/L	1.0	11/01/21 19:23	
40235953008	MW-105					
EPA 8260	Vinyl chloride	0.40J	ug/L	1.0	11/01/21 20:22	
40235953015	PZ-116					
EPA 8260	Vinyl chloride	0.56J	ug/L	1.0	11/01/21 22:39	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: MW-69R **Lab ID: 40235953001** Collected: 10/25/21 10:10 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 23:38	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 23:38	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 23:38	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 23:38	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 23:38	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 23:38	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 23:38	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 23:38	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 23:38	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 23:38	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 23:38	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 23:38	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 23:38	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 23:38	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 23:38	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 23:38	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 23:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 23:38	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 23:38	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 23:38	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 23:38	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 23:38	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 23:38	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:38	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 23:38	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 23:38	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 23:38	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 23:38	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 23:38	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:38	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 23:38	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 23:38	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:38	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 23:38	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 23:38	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 23:38	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 23:38	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 23:38	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 23:38	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 23:38	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 23:38	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 23:38	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 23:38	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:38	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: MW-69R **Lab ID: 40235953001** Collected: 10/25/21 10:10 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 23:38	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 23:38	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 23:38	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 23:38	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 23:38	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 23:38	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:38	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 23:38	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 23:38	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 23:38	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 23:38	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 23:38	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:38	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 23:38	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 23:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 23:38	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/01/21 23:38	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 23:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: PZ-69R **Lab ID: 40235953002** Collected: 10/25/21 10:30 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 23:58	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:58	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 23:58	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 23:58	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 23:58	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 23:58	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 23:58	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 23:58	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 23:58	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 23:58	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 23:58	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 23:58	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 23:58	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 23:58	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 23:58	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 23:58	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 23:58	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 23:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 23:58	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 23:58	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 23:58	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 23:58	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 23:58	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 23:58	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:58	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 23:58	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 23:58	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 23:58	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 23:58	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 23:58	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:58	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 23:58	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 23:58	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:58	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 23:58	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 23:58	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 23:58	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 23:58	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 23:58	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 23:58	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 23:58	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 23:58	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 23:58	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 23:58	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:58	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: PZ-69R **Lab ID: 40235953002** Collected: 10/25/21 10:30 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 23:58	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 23:58	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 23:58	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 23:58	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 23:58	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 23:58	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:58	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 23:58	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 23:58	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 23:58	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 23:58	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 23:58	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:58	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 23:58	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 23:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/01/21 23:58	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/01/21 23:58	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 23:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-70R **Lab ID: 40235953003** Collected: 10/25/21 11:10 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/02/21 00:17	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/02/21 00:17	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 00:17	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/02/21 00:17	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/02/21 00:17	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 00:17	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/02/21 00:17	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/02/21 00:17	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/02/21 00:17	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 00:17	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/02/21 00:17	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/02/21 00:17	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/02/21 00:17	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 00:17	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 00:17	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/02/21 00:17	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/02/21 00:17	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/02/21 00:17	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/02/21 00:17	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 00:17	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 00:17	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/02/21 00:17	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/02/21 00:17	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:17	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/02/21 00:17	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/02/21 00:17	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/02/21 00:17	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/02/21 00:17	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/02/21 00:17	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:17	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/02/21 00:17	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/02/21 00:17	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:17	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/02/21 00:17	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 00:17	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 00:17	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/02/21 00:17	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/02/21 00:17	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/02/21 00:17	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/02/21 00:17	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 00:17	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/02/21 00:17	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 00:17	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:17	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-70R **Lab ID: 40235953003** Collected: 10/25/21 11:10 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/02/21 00:17	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/02/21 00:17	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/02/21 00:17	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/02/21 00:17	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/02/21 00:17	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/02/21 00:17	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:17	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/02/21 00:17	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/02/21 00:17	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 00:17	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/02/21 00:17	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/02/21 00:17	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:17	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/02/21 00:17	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/02/21 00:17	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/02/21 00:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/02/21 00:17	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/02/21 00:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-71R **Lab ID: 40235953004** Collected: 10/25/21 11:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/02/21 00:37	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:37	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/02/21 00:37	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 00:37	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/02/21 00:37	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/02/21 00:37	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 00:37	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/02/21 00:37	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/02/21 00:37	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/02/21 00:37	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 00:37	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/02/21 00:37	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/02/21 00:37	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/02/21 00:37	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 00:37	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 00:37	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/02/21 00:37	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/02/21 00:37	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/02/21 00:37	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/02/21 00:37	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 00:37	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 00:37	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/02/21 00:37	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/02/21 00:37	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:37	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/02/21 00:37	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/02/21 00:37	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/02/21 00:37	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/02/21 00:37	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/02/21 00:37	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:37	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/02/21 00:37	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/02/21 00:37	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:37	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/02/21 00:37	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 00:37	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 00:37	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/02/21 00:37	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/02/21 00:37	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/02/21 00:37	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/02/21 00:37	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 00:37	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/02/21 00:37	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 00:37	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:37	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: MW-71R **Lab ID: 40235953004** Collected: 10/25/21 11:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/02/21 00:37	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/02/21 00:37	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/02/21 00:37	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/02/21 00:37	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/02/21 00:37	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/02/21 00:37	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:37	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/02/21 00:37	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/02/21 00:37	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 00:37	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/02/21 00:37	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/02/21 00:37	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:37	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/02/21 00:37	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/02/21 00:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/02/21 00:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/02/21 00:37	2199-69-1	
Toluene-d8 (S)	99	%	70-130		1		11/02/21 00:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-101 **Lab ID: 40235953005** Collected: 10/25/21 12:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 19:23	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 19:23	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 19:23	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 19:23	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 19:23	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 19:23	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 19:23	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 19:23	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 19:23	56-23-5	L1,M0
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 19:23	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 19:23	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 19:23	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 19:23	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 19:23	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 19:23	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 19:23	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 19:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 19:23	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 19:23	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 19:23	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 19:23	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 19:23	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 19:23	75-71-8	
1,1-Dichloroethane	0.60J	ug/L	1.0	0.30	1		11/01/21 19:23	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 19:23	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 19:23	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 19:23	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 19:23	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 19:23	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:23	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 19:23	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 19:23	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:23	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 19:23	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 19:23	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 19:23	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 19:23	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 19:23	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 19:23	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 19:23	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 19:23	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 19:23	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 19:23	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:23	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-101 **Lab ID: 40235953005** Collected: 10/25/21 12:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 19:23	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 19:23	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 19:23	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 19:23	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 19:23	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 19:23	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:23	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 19:23	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 19:23	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 19:23	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 19:23	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 19:23	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:23	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 19:23	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 19:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/01/21 19:23	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		11/01/21 19:23	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 19:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-102 **Lab ID: 40235953006** Collected: 10/25/21 14:40 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 19:42	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 19:42	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 19:42	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 19:42	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 19:42	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 19:42	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 19:42	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 19:42	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 19:42	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 19:42	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 19:42	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 19:42	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 19:42	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 19:42	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 19:42	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 19:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 19:42	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 19:42	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 19:42	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 19:42	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 19:42	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 19:42	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:42	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 19:42	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 19:42	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 19:42	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 19:42	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 19:42	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:42	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 19:42	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 19:42	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:42	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 19:42	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 19:42	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 19:42	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 19:42	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 19:42	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 19:42	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 19:42	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 19:42	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 19:42	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 19:42	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:42	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-102 **Lab ID: 40235953006** Collected: 10/25/21 14:40 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 19:42	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 19:42	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 19:42	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 19:42	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 19:42	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 19:42	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:42	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 19:42	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 19:42	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 19:42	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 19:42	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 19:42	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:42	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 19:42	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 19:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 19:42	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/01/21 19:42	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/01/21 19:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-103 **Lab ID: 40235953007** Collected: 10/25/21 13:40 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 20:02	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:02	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 20:02	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 20:02	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 20:02	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 20:02	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 20:02	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 20:02	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 20:02	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 20:02	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 20:02	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 20:02	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 20:02	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 20:02	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 20:02	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 20:02	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 20:02	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 20:02	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 20:02	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 20:02	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 20:02	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 20:02	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 20:02	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 20:02	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:02	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 20:02	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 20:02	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 20:02	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 20:02	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 20:02	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:02	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 20:02	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 20:02	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:02	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 20:02	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 20:02	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 20:02	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 20:02	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 20:02	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 20:02	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 20:02	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 20:02	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 20:02	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 20:02	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:02	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-103 **Lab ID: 40235953007** Collected: 10/25/21 13:40 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 20:02	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 20:02	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 20:02	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 20:02	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 20:02	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 20:02	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:02	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 20:02	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 20:02	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 20:02	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 20:02	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 20:02	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:02	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 20:02	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 20:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/01/21 20:02	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/01/21 20:02	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 20:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: MW-105 **Lab ID: 40235953008** Collected: 10/26/21 10:10 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 20:22	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:22	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 20:22	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 20:22	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 20:22	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 20:22	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 20:22	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 20:22	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 20:22	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 20:22	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 20:22	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 20:22	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 20:22	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 20:22	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 20:22	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 20:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 20:22	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 20:22	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 20:22	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 20:22	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 20:22	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 20:22	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 20:22	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 20:22	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:22	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 20:22	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 20:22	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 20:22	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 20:22	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 20:22	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:22	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 20:22	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 20:22	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:22	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 20:22	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 20:22	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 20:22	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 20:22	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 20:22	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 20:22	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 20:22	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 20:22	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 20:22	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 20:22	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:22	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-105 **Lab ID: 40235953008** Collected: 10/26/21 10:10 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 20:22	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 20:22	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 20:22	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 20:22	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 20:22	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 20:22	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:22	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 20:22	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 20:22	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 20:22	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 20:22	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 20:22	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:22	108-67-8	
Vinyl chloride	0.40J	ug/L	1.0	0.17	1		11/01/21 20:22	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 20:22	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 20:22	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/01/21 20:22	2199-69-1	
Toluene-d8 (S)	100	%	70-130		1		11/01/21 20:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: **MW-107** Lab ID: **40235953009** Collected: 10/26/21 15:05 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 20:41	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 20:41	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 20:41	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 20:41	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 20:41	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 20:41	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 20:41	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 20:41	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 20:41	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 20:41	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 20:41	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 20:41	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 20:41	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 20:41	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 20:41	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 20:41	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 20:41	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 20:41	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 20:41	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 20:41	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 20:41	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 20:41	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 20:41	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:41	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 20:41	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 20:41	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 20:41	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 20:41	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 20:41	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:41	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 20:41	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 20:41	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:41	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 20:41	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 20:41	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 20:41	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 20:41	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 20:41	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 20:41	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 20:41	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 20:41	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 20:41	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 20:41	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:41	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-107 **Lab ID: 40235953009** Collected: 10/26/21 15:05 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 20:41	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 20:41	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 20:41	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 20:41	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 20:41	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 20:41	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 20:41	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 20:41	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 20:41	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 20:41	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 20:41	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 20:41	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 20:41	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 20:41	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 20:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/01/21 20:41	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/01/21 20:41	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/01/21 20:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-109 **Lab ID: 40235953010** Collected: 10/26/21 11:55 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 21:01	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 21:01	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 21:01	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 21:01	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 21:01	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 21:01	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 21:01	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 21:01	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 21:01	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 21:01	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 21:01	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 21:01	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 21:01	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 21:01	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 21:01	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 21:01	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 21:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 21:01	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 21:01	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 21:01	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 21:01	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 21:01	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 21:01	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:01	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 21:01	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 21:01	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 21:01	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 21:01	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 21:01	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:01	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 21:01	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 21:01	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:01	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 21:01	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 21:01	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 21:01	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 21:01	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 21:01	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 21:01	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 21:01	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 21:01	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 21:01	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 21:01	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:01	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-109 **Lab ID: 40235953010** Collected: 10/26/21 11:55 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 21:01	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 21:01	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 21:01	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 21:01	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 21:01	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 21:01	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:01	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 21:01	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 21:01	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 21:01	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 21:01	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 21:01	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:01	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 21:01	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 21:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 21:01	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/01/21 21:01	2199-69-1	
Toluene-d8 (S)	96	%	70-130		1		11/01/21 21:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: **MW-110** Lab ID: **40235953011** Collected: 10/26/21 13:00 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 21:21	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:21	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 21:21	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 21:21	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 21:21	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 21:21	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 21:21	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 21:21	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 21:21	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 21:21	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 21:21	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 21:21	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 21:21	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 21:21	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 21:21	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 21:21	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 21:21	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 21:21	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 21:21	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 21:21	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 21:21	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 21:21	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 21:21	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 21:21	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:21	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 21:21	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 21:21	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 21:21	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 21:21	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 21:21	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:21	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 21:21	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 21:21	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:21	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 21:21	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 21:21	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 21:21	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 21:21	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 21:21	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 21:21	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 21:21	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 21:21	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 21:21	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 21:21	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:21	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-110 **Lab ID: 40235953011** Collected: 10/26/21 13:00 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 21:21	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 21:21	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 21:21	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 21:21	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 21:21	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 21:21	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:21	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 21:21	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 21:21	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 21:21	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 21:21	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 21:21	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:21	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 21:21	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 21:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/01/21 21:21	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/01/21 21:21	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/01/21 21:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-111 **Lab ID: 40235953012** Collected: 10/26/21 13:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 21:40	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:40	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 21:40	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 21:40	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 21:40	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 21:40	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 21:40	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 21:40	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 21:40	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 21:40	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 21:40	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 21:40	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 21:40	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 21:40	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 21:40	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 21:40	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 21:40	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 21:40	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 21:40	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 21:40	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 21:40	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 21:40	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 21:40	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 21:40	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:40	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 21:40	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 21:40	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 21:40	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 21:40	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 21:40	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:40	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 21:40	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 21:40	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:40	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 21:40	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 21:40	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 21:40	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 21:40	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 21:40	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 21:40	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 21:40	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 21:40	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 21:40	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 21:40	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:40	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-111 **Lab ID: 40235953012** Collected: 10/26/21 13:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 21:40	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 21:40	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 21:40	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 21:40	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 21:40	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 21:40	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 21:40	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 21:40	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 21:40	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 21:40	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 21:40	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 21:40	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 21:40	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 21:40	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 21:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/01/21 21:40	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/01/21 21:40	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 21:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-112 **Lab ID: 40235953013** Collected: 10/26/21 14:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 22:00	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 22:00	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:00	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 22:00	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 22:00	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:00	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 22:00	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 22:00	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 22:00	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:00	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 22:00	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 22:00	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 22:00	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:00	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:00	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 22:00	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 22:00	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 22:00	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 22:00	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:00	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:00	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 22:00	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 22:00	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:00	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 22:00	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 22:00	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 22:00	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 22:00	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 22:00	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:00	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 22:00	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:00	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:00	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 22:00	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:00	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:00	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 22:00	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 22:00	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:00	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 22:00	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:00	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 22:00	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:00	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:00	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-112 **Lab ID: 40235953013** Collected: 10/26/21 14:45 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 22:00	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 22:00	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:00	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 22:00	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:00	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 22:00	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:00	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 22:00	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 22:00	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:00	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 22:00	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 22:00	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:00	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 22:00	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 22:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 22:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	105	%	70-130		1		11/01/21 22:00	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/01/21 22:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: **MW-116** Lab ID: **40235953014** Collected: 10/27/21 10:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 22:19	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:19	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 22:19	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:19	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 22:19	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 22:19	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:19	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 22:19	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 22:19	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 22:19	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:19	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 22:19	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 22:19	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 22:19	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:19	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:19	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 22:19	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 22:19	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 22:19	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 22:19	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:19	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:19	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 22:19	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 22:19	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:19	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 22:19	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 22:19	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 22:19	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 22:19	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 22:19	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:19	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 22:19	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:19	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:19	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 22:19	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:19	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:19	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 22:19	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 22:19	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:19	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 22:19	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:19	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 22:19	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:19	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:19	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-116 **Lab ID: 40235953014** Collected: 10/27/21 10:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 22:19	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 22:19	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:19	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 22:19	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:19	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 22:19	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:19	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 22:19	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 22:19	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:19	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 22:19	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 22:19	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:19	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 22:19	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 22:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/01/21 22:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/01/21 22:19	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 22:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: PZ-116 **Lab ID: 40235953015** Collected: 10/27/21 11:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 22:39	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:39	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 22:39	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:39	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 22:39	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 22:39	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:39	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 22:39	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 22:39	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 22:39	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:39	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 22:39	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 22:39	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 22:39	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:39	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:39	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 22:39	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 22:39	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 22:39	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 22:39	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:39	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:39	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 22:39	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 22:39	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:39	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 22:39	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 22:39	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 22:39	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 22:39	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 22:39	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:39	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 22:39	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:39	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:39	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 22:39	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:39	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:39	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 22:39	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 22:39	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:39	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 22:39	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:39	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 22:39	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:39	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:39	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: PZ-116 **Lab ID: 40235953015** Collected: 10/27/21 11:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 22:39	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 22:39	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:39	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 22:39	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:39	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 22:39	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:39	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 22:39	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 22:39	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:39	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 22:39	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 22:39	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:39	108-67-8	
Vinyl chloride	0.56J	ug/L	1.0	0.17	1		11/01/21 22:39	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 22:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 22:39	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/01/21 22:39	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 22:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-117 **Lab ID: 40235953016** Collected: 10/27/21 12:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 22:59	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:59	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 22:59	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:59	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 22:59	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 22:59	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:59	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 22:59	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 22:59	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 22:59	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 22:59	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 22:59	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 22:59	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 22:59	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:59	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 22:59	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 22:59	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 22:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 22:59	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 22:59	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:59	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:59	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 22:59	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 22:59	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:59	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 22:59	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 22:59	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 22:59	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 22:59	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 22:59	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:59	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 22:59	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:59	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:59	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 22:59	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:59	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 22:59	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 22:59	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 22:59	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:59	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 22:59	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 22:59	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 22:59	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 22:59	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:59	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-117 **Lab ID: 40235953016** Collected: 10/27/21 12:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 22:59	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 22:59	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 22:59	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 22:59	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 22:59	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 22:59	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 22:59	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 22:59	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 22:59	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 22:59	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 22:59	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 22:59	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 22:59	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 22:59	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 22:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 22:59	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/01/21 22:59	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/01/21 22:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: PZ-117 **Lab ID: 40235953017** Collected: 10/27/21 13:30 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 23:18	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 23:18	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 23:18	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 23:18	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 23:18	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 23:18	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 23:18	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 23:18	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 23:18	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 23:18	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 23:18	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 23:18	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 23:18	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 23:18	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 23:18	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 23:18	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 23:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 23:18	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 23:18	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 23:18	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 23:18	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 23:18	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 23:18	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:18	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 23:18	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 23:18	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 23:18	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 23:18	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 23:18	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:18	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 23:18	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 23:18	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:18	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 23:18	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 23:18	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 23:18	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 23:18	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 23:18	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 23:18	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 23:18	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 23:18	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 23:18	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 23:18	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:18	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: PZ-117 **Lab ID: 40235953017** Collected: 10/27/21 13:30 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 23:18	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 23:18	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 23:18	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 23:18	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 23:18	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 23:18	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 23:18	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 23:18	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 23:18	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 23:18	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 23:18	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 23:18	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 23:18	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 23:18	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 23:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/01/21 23:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/01/21 23:18	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/01/21 23:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-117D **Lab ID: 40235953018** Collected: 10/27/21 12:40 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/02/21 00:57	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/02/21 00:57	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 00:57	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/02/21 00:57	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/02/21 00:57	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 00:57	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/02/21 00:57	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/02/21 00:57	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/02/21 00:57	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 00:57	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/02/21 00:57	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/02/21 00:57	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/02/21 00:57	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 00:57	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 00:57	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/02/21 00:57	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/02/21 00:57	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/02/21 00:57	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/02/21 00:57	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 00:57	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 00:57	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/02/21 00:57	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/02/21 00:57	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:57	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/02/21 00:57	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/02/21 00:57	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/02/21 00:57	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/02/21 00:57	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/02/21 00:57	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:57	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/02/21 00:57	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/02/21 00:57	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:57	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/02/21 00:57	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 00:57	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 00:57	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/02/21 00:57	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/02/21 00:57	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/02/21 00:57	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/02/21 00:57	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 00:57	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/02/21 00:57	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 00:57	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:57	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: MW-117D **Lab ID: 40235953018** Collected: 10/27/21 12:40 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/02/21 00:57	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/02/21 00:57	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/02/21 00:57	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/02/21 00:57	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/02/21 00:57	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/02/21 00:57	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 00:57	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/02/21 00:57	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/02/21 00:57	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 00:57	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/02/21 00:57	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/02/21 00:57	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 00:57	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/02/21 00:57	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/02/21 00:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/02/21 00:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%	70-130		1		11/02/21 00:57	2199-69-1	
Toluene-d8 (S)	98	%	70-130		1		11/02/21 00:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: PZ-117D **Lab ID: 40235953019** Collected: 10/27/21 13:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/02/21 01:16	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 01:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/02/21 01:16	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 01:16	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/02/21 01:16	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/02/21 01:16	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 01:16	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/02/21 01:16	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/02/21 01:16	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/02/21 01:16	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/02/21 01:16	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/02/21 01:16	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/02/21 01:16	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/02/21 01:16	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 01:16	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/02/21 01:16	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/02/21 01:16	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/02/21 01:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/02/21 01:16	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/02/21 01:16	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 01:16	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 01:16	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/02/21 01:16	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/02/21 01:16	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 01:16	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/02/21 01:16	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/02/21 01:16	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/02/21 01:16	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/02/21 01:16	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/02/21 01:16	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/02/21 01:16	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/02/21 01:16	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/02/21 01:16	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/02/21 01:16	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/02/21 01:16	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 01:16	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/02/21 01:16	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/02/21 01:16	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/02/21 01:16	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/02/21 01:16	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/02/21 01:16	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/02/21 01:16	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/02/21 01:16	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/02/21 01:16	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/02/21 01:16	100-42-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: PZ-117D **Lab ID: 40235953019** Collected: 10/27/21 13:35 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/02/21 01:16	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/02/21 01:16	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/02/21 01:16	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/02/21 01:16	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/02/21 01:16	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/02/21 01:16	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/02/21 01:16	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/02/21 01:16	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/02/21 01:16	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/02/21 01:16	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/02/21 01:16	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/02/21 01:16	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/02/21 01:16	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/02/21 01:16	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/02/21 01:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/02/21 01:16	460-00-4	
1,2-Dichlorobenzene-d4 (S)	107	%	70-130		1		11/02/21 01:16	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/02/21 01:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

Sample: TRIP BLANK **Lab ID: 40235953020** Collected: 10/25/21 07:00 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Benzene	<0.30	ug/L	1.0	0.30	1		11/01/21 19:03	71-43-2	
Bromobenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:03	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/01/21 19:03	74-97-5	
Bromodichloromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 19:03	75-27-4	
Bromoform	<3.8	ug/L	5.0	3.8	1		11/01/21 19:03	75-25-2	
Bromomethane	<1.2	ug/L	5.0	1.2	1		11/01/21 19:03	74-83-9	
n-Butylbenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 19:03	104-51-8	
sec-Butylbenzene	<0.42	ug/L	1.0	0.42	1		11/01/21 19:03	135-98-8	
tert-Butylbenzene	<0.59	ug/L	1.0	0.59	1		11/01/21 19:03	98-06-6	
Carbon tetrachloride	<0.37	ug/L	1.0	0.37	1		11/01/21 19:03	56-23-5	L1
Chlorobenzene	<0.86	ug/L	1.0	0.86	1		11/01/21 19:03	108-90-7	
Chloroethane	<1.4	ug/L	5.0	1.4	1		11/01/21 19:03	75-00-3	
Chloroform	<1.2	ug/L	5.0	1.2	1		11/01/21 19:03	67-66-3	
Chloromethane	<1.6	ug/L	5.0	1.6	1		11/01/21 19:03	74-87-3	
2-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 19:03	95-49-8	
4-Chlorotoluene	<0.89	ug/L	5.0	0.89	1		11/01/21 19:03	106-43-4	
1,2-Dibromo-3-chloropropane	<2.4	ug/L	5.0	2.4	1		11/01/21 19:03	96-12-8	
Dibromochloromethane	<2.6	ug/L	5.0	2.6	1		11/01/21 19:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.31	ug/L	1.0	0.31	1		11/01/21 19:03	106-93-4	
Dibromomethane	<0.99	ug/L	5.0	0.99	1		11/01/21 19:03	74-95-3	
1,2-Dichlorobenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 19:03	95-50-1	
1,3-Dichlorobenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 19:03	541-73-1	
1,4-Dichlorobenzene	<0.89	ug/L	1.0	0.89	1		11/01/21 19:03	106-46-7	
Dichlorodifluoromethane	<0.46	ug/L	5.0	0.46	1		11/01/21 19:03	75-71-8	
1,1-Dichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:03	75-34-3	
1,2-Dichloroethane	<0.29	ug/L	1.0	0.29	1		11/01/21 19:03	107-06-2	
1,1-Dichloroethene	<0.58	ug/L	1.0	0.58	1		11/01/21 19:03	75-35-4	
cis-1,2-Dichloroethene	<0.47	ug/L	1.0	0.47	1		11/01/21 19:03	156-59-2	
trans-1,2-Dichloroethene	<0.53	ug/L	1.0	0.53	1		11/01/21 19:03	156-60-5	
1,2-Dichloropropane	<0.45	ug/L	1.0	0.45	1		11/01/21 19:03	78-87-5	
1,3-Dichloropropane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:03	142-28-9	
2,2-Dichloropropane	<4.2	ug/L	5.0	4.2	1		11/01/21 19:03	594-20-7	
1,1-Dichloropropene	<0.41	ug/L	1.0	0.41	1		11/01/21 19:03	563-58-6	
cis-1,3-Dichloropropene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:03	10061-01-5	
trans-1,3-Dichloropropene	<3.5	ug/L	5.0	3.5	1		11/01/21 19:03	10061-02-6	
Diisopropyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 19:03	108-20-3	
Ethylbenzene	<0.33	ug/L	1.0	0.33	1		11/01/21 19:03	100-41-4	
Hexachloro-1,3-butadiene	<2.7	ug/L	5.0	2.7	1		11/01/21 19:03	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	5.0	1.0	1		11/01/21 19:03	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	5.0	1.0	1		11/01/21 19:03	99-87-6	
Methylene Chloride	<0.32	ug/L	5.0	0.32	1		11/01/21 19:03	75-09-2	
Methyl-tert-butyl ether	<1.1	ug/L	5.0	1.1	1		11/01/21 19:03	1634-04-4	
Naphthalene	<1.1	ug/L	5.0	1.1	1		11/01/21 19:03	91-20-3	
n-Propylbenzene	<0.35	ug/L	1.0	0.35	1		11/01/21 19:03	103-65-1	
Styrene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:03	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Sample: TRIP BLANK **Lab ID: 40235953020** Collected: 10/25/21 07:00 Received: 10/28/21 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.36	ug/L	1.0	0.36	1		11/01/21 19:03	630-20-6	
1,1,1,2-Tetrachloroethane	<0.38	ug/L	1.0	0.38	1		11/01/21 19:03	79-34-5	
Tetrachloroethene	<0.41	ug/L	1.0	0.41	1		11/01/21 19:03	127-18-4	
Toluene	<0.29	ug/L	1.0	0.29	1		11/01/21 19:03	108-88-3	
1,2,3-Trichlorobenzene	<1.0	ug/L	5.0	1.0	1		11/01/21 19:03	87-61-6	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/01/21 19:03	120-82-1	
1,1,1-Trichloroethane	<0.30	ug/L	1.0	0.30	1		11/01/21 19:03	71-55-6	
1,1,2-Trichloroethane	<0.34	ug/L	5.0	0.34	1		11/01/21 19:03	79-00-5	
Trichloroethene	<0.32	ug/L	1.0	0.32	1		11/01/21 19:03	79-01-6	
Trichlorofluoromethane	<0.42	ug/L	1.0	0.42	1		11/01/21 19:03	75-69-4	
1,2,3-Trichloropropane	<0.56	ug/L	5.0	0.56	1		11/01/21 19:03	96-18-4	
1,2,4-Trimethylbenzene	<0.45	ug/L	1.0	0.45	1		11/01/21 19:03	95-63-6	
1,3,5-Trimethylbenzene	<0.36	ug/L	1.0	0.36	1		11/01/21 19:03	108-67-8	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/01/21 19:03	75-01-4	
Xylene (Total)	<1.0	ug/L	3.0	1.0	1		11/01/21 19:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/01/21 19:03	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	70-130		1		11/01/21 19:03	2199-69-1	
Toluene-d8 (S)	97	%	70-130		1		11/01/21 19:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

QC Batch:	400080	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40235953001, 40235953002, 40235953003, 40235953004, 40235953005, 40235953006, 40235953007, 40235953008, 40235953009, 40235953010, 40235953011, 40235953012, 40235953013, 40235953014, 40235953015, 40235953016, 40235953017, 40235953018, 40235953019, 40235953020

METHOD BLANK: 2310216 Matrix: Water
Associated Lab Samples: 40235953001, 40235953002, 40235953003, 40235953004, 40235953005, 40235953006, 40235953007, 40235953008, 40235953009, 40235953010, 40235953011, 40235953012, 40235953013, 40235953014, 40235953015, 40235953016, 40235953017, 40235953018, 40235953019, 40235953020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.36	1.0	11/01/21 15:47	
1,1,1-Trichloroethane	ug/L	<0.30	1.0	11/01/21 15:47	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	11/01/21 15:47	
1,1,2-Trichloroethane	ug/L	<0.34	5.0	11/01/21 15:47	
1,1-Dichloroethane	ug/L	<0.30	1.0	11/01/21 15:47	
1,1-Dichloroethene	ug/L	<0.58	1.0	11/01/21 15:47	
1,1-Dichloropropene	ug/L	<0.41	1.0	11/01/21 15:47	
1,2,3-Trichlorobenzene	ug/L	<1.0	5.0	11/01/21 15:47	
1,2,3-Trichloropropane	ug/L	<0.56	5.0	11/01/21 15:47	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/01/21 15:47	
1,2,4-Trimethylbenzene	ug/L	<0.45	1.0	11/01/21 15:47	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	5.0	11/01/21 15:47	
1,2-Dibromoethane (EDB)	ug/L	<0.31	1.0	11/01/21 15:47	
1,2-Dichlorobenzene	ug/L	<0.33	1.0	11/01/21 15:47	
1,2-Dichloroethane	ug/L	<0.29	1.0	11/01/21 15:47	
1,2-Dichloropropane	ug/L	<0.45	1.0	11/01/21 15:47	
1,3,5-Trimethylbenzene	ug/L	<0.36	1.0	11/01/21 15:47	
1,3-Dichlorobenzene	ug/L	<0.35	1.0	11/01/21 15:47	
1,3-Dichloropropane	ug/L	<0.30	1.0	11/01/21 15:47	
1,4-Dichlorobenzene	ug/L	<0.89	1.0	11/01/21 15:47	
2,2-Dichloropropane	ug/L	<4.2	5.0	11/01/21 15:47	
2-Chlorotoluene	ug/L	<0.89	5.0	11/01/21 15:47	
4-Chlorotoluene	ug/L	<0.89	5.0	11/01/21 15:47	
Benzene	ug/L	<0.30	1.0	11/01/21 15:47	
Bromobenzene	ug/L	<0.36	1.0	11/01/21 15:47	
Bromochloromethane	ug/L	<0.36	5.0	11/01/21 15:47	
Bromodichloromethane	ug/L	<0.42	1.0	11/01/21 15:47	
Bromoform	ug/L	<3.8	5.0	11/01/21 15:47	
Bromomethane	ug/L	<1.2	5.0	11/01/21 15:47	
Carbon tetrachloride	ug/L	<0.37	1.0	11/01/21 15:47	
Chlorobenzene	ug/L	<0.86	1.0	11/01/21 15:47	
Chloroethane	ug/L	<1.4	5.0	11/01/21 15:47	
Chloroform	ug/L	<1.2	5.0	11/01/21 15:47	
Chloromethane	ug/L	<1.6	5.0	11/01/21 15:47	
cis-1,2-Dichloroethene	ug/L	<0.47	1.0	11/01/21 15:47	
cis-1,3-Dichloropropene	ug/L	<0.36	1.0	11/01/21 15:47	
Dibromochloromethane	ug/L	<2.6	5.0	11/01/21 15:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

METHOD BLANK: 2310216

Matrix: Water

Associated Lab Samples: 40235953001, 40235953002, 40235953003, 40235953004, 40235953005, 40235953006, 40235953007, 40235953008, 40235953009, 40235953010, 40235953011, 40235953012, 40235953013, 40235953014, 40235953015, 40235953016, 40235953017, 40235953018, 40235953019, 40235953020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.99	5.0	11/01/21 15:47	
Dichlorodifluoromethane	ug/L	<0.46	5.0	11/01/21 15:47	
Diisopropyl ether	ug/L	<1.1	5.0	11/01/21 15:47	
Ethylbenzene	ug/L	<0.33	1.0	11/01/21 15:47	
Hexachloro-1,3-butadiene	ug/L	<2.7	5.0	11/01/21 15:47	
Isopropylbenzene (Cumene)	ug/L	<1.0	5.0	11/01/21 15:47	
Methyl-tert-butyl ether	ug/L	<1.1	5.0	11/01/21 15:47	
Methylene Chloride	ug/L	<0.32	5.0	11/01/21 15:47	
n-Butylbenzene	ug/L	<0.86	1.0	11/01/21 15:47	
n-Propylbenzene	ug/L	<0.35	1.0	11/01/21 15:47	
Naphthalene	ug/L	<1.1	5.0	11/01/21 15:47	
p-Isopropyltoluene	ug/L	<1.0	5.0	11/01/21 15:47	
sec-Butylbenzene	ug/L	<0.42	1.0	11/01/21 15:47	
Styrene	ug/L	<0.36	1.0	11/01/21 15:47	
tert-Butylbenzene	ug/L	<0.59	1.0	11/01/21 15:47	
Tetrachloroethene	ug/L	<0.41	1.0	11/01/21 15:47	
Toluene	ug/L	<0.29	1.0	11/01/21 15:47	
trans-1,2-Dichloroethene	ug/L	<0.53	1.0	11/01/21 15:47	
trans-1,3-Dichloropropene	ug/L	<3.5	5.0	11/01/21 15:47	
Trichloroethene	ug/L	<0.32	1.0	11/01/21 15:47	
Trichlorofluoromethane	ug/L	<0.42	1.0	11/01/21 15:47	
Vinyl chloride	ug/L	<0.17	1.0	11/01/21 15:47	
Xylene (Total)	ug/L	<1.0	3.0	11/01/21 15:47	
1,2-Dichlorobenzene-d4 (S)	%	108	70-130	11/01/21 15:47	
4-Bromofluorobenzene (S)	%	97	70-130	11/01/21 15:47	
Toluene-d8 (S)	%	101	70-130	11/01/21 15:47	

LABORATORY CONTROL SAMPLE: 2310217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	60.0	120	70-130	
1,1,1-Trichloroethane	ug/L	50	59.9	120	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	53.6	107	66-130	
1,1,2-Trichloroethane	ug/L	50	58.0	116	70-130	
1,1-Dichloroethane	ug/L	50	58.7	117	68-132	
1,1-Dichloroethene	ug/L	50	59.6	119	85-126	
1,1-Dichloropropene	ug/L	50	62.3	125	70-130	
1,2,3-Trichlorobenzene	ug/L	50	56.0	112	70-130	
1,2,3-Trichloropropane	ug/L	50	50.5	101	65-135	
1,2,4-Trichlorobenzene	ug/L	50	54.2	108	70-130	
1,2,4-Trimethylbenzene	ug/L	50	55.9	112	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	47.2	94	51-126	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

LABORATORY CONTROL SAMPLE: 2310217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	58.2	116	70-130	
1,2-Dichlorobenzene	ug/L	50	54.5	109	70-130	
1,2-Dichloroethane	ug/L	50	56.3	113	70-130	
1,2-Dichloropropane	ug/L	50	57.2	114	78-125	
1,3,5-Trimethylbenzene	ug/L	50	56.1	112	70-130	
1,3-Dichlorobenzene	ug/L	50	55.2	110	70-130	
1,3-Dichloropropane	ug/L	50	58.1	116	70-133	
1,4-Dichlorobenzene	ug/L	50	54.2	108	70-130	
2,2-Dichloropropane	ug/L	50	57.8	116	59-136	
2-Chlorotoluene	ug/L	50	54.9	110	70-130	
4-Chlorotoluene	ug/L	50	55.5	111	70-130	
Benzene	ug/L	50	59.7	119	70-132	
Bromobenzene	ug/L	50	55.2	110	70-130	
Bromochloromethane	ug/L	50	60.2	120	70-130	
Bromodichloromethane	ug/L	50	58.2	116	70-130	
Bromoform	ug/L	50	59.9	120	65-130	
Bromomethane	ug/L	50	49.7	99	44-128	
Carbon tetrachloride	ug/L	50	65.9	132	70-130	L1
Chlorobenzene	ug/L	50	59.3	119	70-130	
Chloroethane	ug/L	50	56.9	114	73-137	
Chloroform	ug/L	50	60.2	120	80-122	
Chloromethane	ug/L	50	46.6	93	27-148	
cis-1,2-Dichloroethene	ug/L	50	58.5	117	70-130	
cis-1,3-Dichloropropene	ug/L	50	57.4	115	70-130	
Dibromochloromethane	ug/L	50	59.3	119	70-130	
Dibromomethane	ug/L	50	56.4	113	70-130	
Dichlorodifluoromethane	ug/L	50	51.8	104	22-151	
Diisopropyl ether	ug/L	50	56.7	113	53-135	
Ethylbenzene	ug/L	50	60.5	121	80-123	
Hexachloro-1,3-butadiene	ug/L	50	58.6	117	69-130	
Isopropylbenzene (Cumene)	ug/L	50	62.9	126	70-130	
Methyl-tert-butyl ether	ug/L	50	51.6	103	66-130	
Methylene Chloride	ug/L	50	56.9	114	70-130	
n-Butylbenzene	ug/L	50	49.4	99	70-132	
n-Propylbenzene	ug/L	50	54.9	110	70-130	
Naphthalene	ug/L	50	49.8	100	70-130	
p-Isopropyltoluene	ug/L	50	56.3	113	70-130	
sec-Butylbenzene	ug/L	50	56.3	113	70-130	
Styrene	ug/L	50	63.1	126	70-130	
tert-Butylbenzene	ug/L	50	55.8	112	70-130	
Tetrachloroethene	ug/L	50	63.9	128	70-130	
Toluene	ug/L	50	58.8	118	80-121	
trans-1,2-Dichloroethene	ug/L	50	58.5	117	70-130	
trans-1,3-Dichloropropene	ug/L	50	56.6	113	58-125	
Trichloroethene	ug/L	50	58.0	116	70-130	
Trichlorofluoromethane	ug/L	50	57.3	115	84-148	
Vinyl chloride	ug/L	50	57.9	116	63-142	

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QUALITY CONTROL DATA

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

LABORATORY CONTROL SAMPLE: 2310217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	183	122	70-130	
1,2-Dichlorobenzene-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			103	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2311942 2311943

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40235953005 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1,2-Tetrachloroethane	ug/L	<0.36	50	50	50	61.2	56.0	122	112	70-130	9	20	
1,1,1-Trichloroethane	ug/L	<0.30	50	50	50	62.1	57.6	124	115	70-130	8	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	50	54.3	51.0	109	102	66-130	6	20	
1,1,2-Trichloroethane	ug/L	<0.34	50	50	50	58.6	54.4	117	109	70-130	7	20	
1,1-Dichloroethane	ug/L	0.60J	50	50	50	60.6	56.2	120	111	68-132	7	20	
1,1-Dichloroethene	ug/L	<0.58	50	50	50	61.0	57.1	122	114	76-132	7	20	
1,1-Dichloropropene	ug/L	<0.41	50	50	50	63.7	60.0	127	120	70-130	6	20	
1,2,3-Trichlorobenzene	ug/L	<1.0	50	50	50	57.0	54.3	114	109	70-130	5	20	
1,2,3-Trichloropropane	ug/L	<0.56	50	50	50	53.3	49.5	107	99	65-135	7	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	56.4	53.2	113	106	70-130	6	20	
1,2,4-Trimethylbenzene	ug/L	<0.45	50	50	50	57.9	55.2	116	110	70-130	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.4	50	50	50	47.2	47.8	94	96	51-126	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.31	50	50	50	57.9	54.5	116	109	70-130	6	20	
1,2-Dichlorobenzene	ug/L	<0.33	50	50	50	55.8	52.8	112	106	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.29	50	50	50	56.5	52.6	113	105	70-130	7	20	
1,2-Dichloropropane	ug/L	<0.45	50	50	50	58.5	55.2	117	110	77-125	6	20	
1,3,5-Trimethylbenzene	ug/L	<0.36	50	50	50	58.3	54.4	117	109	70-130	7	20	
1,3-Dichlorobenzene	ug/L	<0.35	50	50	50	57.0	52.9	114	106	70-130	7	20	
1,3-Dichloropropane	ug/L	<0.30	50	50	50	58.8	55.2	118	110	70-133	6	20	
1,4-Dichlorobenzene	ug/L	<0.89	50	50	50	55.0	52.0	110	104	70-130	6	20	
2,2-Dichloropropane	ug/L	<4.2	50	50	50	60.2	55.2	120	110	59-136	9	20	
2-Chlorotoluene	ug/L	<0.89	50	50	50	57.3	54.0	115	108	70-130	6	20	
4-Chlorotoluene	ug/L	<0.89	50	50	50	57.5	53.4	115	107	70-130	7	20	
Benzene	ug/L	<0.30	50	50	50	61.2	57.0	122	114	70-132	7	20	
Bromobenzene	ug/L	<0.36	50	50	50	57.2	53.2	114	106	70-130	7	20	
Bromochloromethane	ug/L	<0.36	50	50	50	60.4	54.8	121	110	70-130	10	20	
Bromodichloromethane	ug/L	<0.42	50	50	50	58.6	54.0	117	108	70-130	8	20	
Bromoform	ug/L	<3.8	50	50	50	58.3	54.8	117	110	65-130	6	20	
Bromomethane	ug/L	<1.2	50	50	50	42.2	35.5	84	71	44-128	17	21	
Carbon tetrachloride	ug/L	<0.37	50	50	50	69.0	63.2	138	126	70-132	9	20 MO	
Chlorobenzene	ug/L	<0.86	50	50	50	59.6	55.4	119	111	70-130	7	20	
Chloroethane	ug/L	<1.4	50	50	50	55.6	53.4	111	107	70-137	4	20	
Chloroform	ug/L	<1.2	50	50	50	60.6	55.9	121	112	80-122	8	20	
Chloromethane	ug/L	<1.6	50	50	50	52.6	51.9	105	104	17-149	1	20	
cis-1,2-Dichloroethene	ug/L	<0.47	50	50	50	60.9	56.0	122	112	70-130	8	20	

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QUALITY CONTROL DATA

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2311942		2311943		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40235953005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
cis-1,3-Dichloropropene	ug/L	<0.36	50	50	56.9	53.8	114	108	70-130	6	20		
Dibromochloromethane	ug/L	<2.6	50	50	59.3	54.8	119	110	70-130	8	20		
Dibromomethane	ug/L	<0.99	50	50	57.0	52.9	114	106	70-130	7	20		
Dichlorodifluoromethane	ug/L	<0.46	50	50	50.5	48.4	101	97	22-158	4	20		
Diisopropyl ether	ug/L	<1.1	50	50	60.3	56.9	121	114	53-135	6	20		
Ethylbenzene	ug/L	<0.33	50	50	61.5	57.4	123	115	80-123	7	20		
Hexachloro-1,3-butadiene	ug/L	<2.7	50	50	58.2	54.7	116	109	69-130	6	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	63.4	59.0	127	118	70-130	7	20		
Methyl-tert-butyl ether	ug/L	<1.1	50	50	54.2	51.5	108	103	66-130	5	20		
Methylene Chloride	ug/L	<0.32	50	50	56.4	52.5	113	105	70-130	7	20		
n-Butylbenzene	ug/L	<0.86	50	50	50.5	48.7	101	97	70-132	4	20		
n-Propylbenzene	ug/L	<0.35	50	50	57.8	54.1	116	108	70-130	7	20		
Naphthalene	ug/L	<1.1	50	50	51.1	49.8	102	100	70-130	3	20		
p-Isopropyltoluene	ug/L	<1.0	50	50	57.9	55.3	116	111	70-130	5	20		
sec-Butylbenzene	ug/L	<0.42	50	50	58.4	55.1	117	110	70-130	6	20		
Styrene	ug/L	<0.36	50	50	62.0	58.4	124	117	70-130	6	20		
tert-Butylbenzene	ug/L	<0.59	50	50	58.7	54.6	117	109	70-130	7	20		
Tetrachloroethene	ug/L	<0.41	50	50	62.9	59.3	126	119	70-130	6	20		
Toluene	ug/L	<0.29	50	50	59.9	55.5	120	111	80-121	8	20		
trans-1,2-Dichloroethene	ug/L	<0.53	50	50	59.9	54.6	120	109	70-134	9	20		
trans-1,3-Dichloropropene	ug/L	<3.5	50	50	56.8	53.5	114	107	58-130	6	20		
Trichloroethene	ug/L	<0.32	50	50	59.4	55.7	119	111	70-130	6	20		
Trichlorofluoromethane	ug/L	<0.42	50	50	57.3	52.7	115	105	82-151	8	20		
Vinyl chloride	ug/L	<0.17	50	50	56.0	53.2	112	106	61-143	5	20		
Xylene (Total)	ug/L	<1.0	150	150	185	173	123	115	70-130	7	20		
1,2-Dichlorobenzene-d4 (S)	%						99	98	70-130				
4-Bromofluorobenzene (S)	%						99	98	70-130				
Toluene-d8 (S)	%						101	100	70-130				

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 60623269 KEP PERIMETER GW

Pace Project No.: 40235953

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

ANALYTE QUALIFIERS

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60623269 KEP PERIMETER GW
Pace Project No.: 40235953

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40235953001	MW-69R	EPA 8260	400080		
40235953002	PZ-69R	EPA 8260	400080		
40235953003	MW-70R	EPA 8260	400080		
40235953004	MW-71R	EPA 8260	400080		
40235953005	MW-101	EPA 8260	400080		
40235953006	MW-102	EPA 8260	400080		
40235953007	MW-103	EPA 8260	400080		
40235953008	MW-105	EPA 8260	400080		
40235953009	MW-107	EPA 8260	400080		
40235953010	MW-109	EPA 8260	400080		
40235953011	MW-110	EPA 8260	400080		
40235953012	MW-111	EPA 8260	400080		
40235953013	MW-112	EPA 8260	400080		
40235953014	MW-116	EPA 8260	400080		
40235953015	PZ-116	EPA 8260	400080		
40235953016	MW-117	EPA 8260	400080		
40235953017	PZ-117	EPA 8260	400080		
40235953018	MW-117D	EPA 8260	400080		
40235953019	PZ-117D	EPA 8260	400080		
40235953020	TRIP BLANK	EPA 8260	400080		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

40235953

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: Keith Nielsen		Company Name: City of Kenosha	
Milwaukee, WI 53212				Address: 652 52nd St., Kenosha, WI 53140	
Email To: Lanette.Altенbach@aecom.com		Purchase Order No.: 200476		Pace Quote Reference:	
Phone: 414-577-1363 Fax:		Project Name: KEP Perimeter GW		Pace Project Manager: Chris Hyska	
Requested Due Date/TAT: Standard		Project Number: 60623269		Pace Profile #: (2430) Kenosha work	

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

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Preservatives								Filtered (Y/N)	Requested Amt	Pace Project Number Lab I.D.							
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other										
					DATE	TIME	DATE	TIME																				
					Residual Chlorine (Y/N)																							
1	MW-69R		WT	G			10/25/21	1010		3																		001
2	PZ-69R		WT	G			10/25/21	1030		3																		002
3	MW-70R		WT	G			10/25/21	1110		3																		003
4	MW-71R		WT	G			10/25/21	1145		3																		004
5	MW-101		WT	G			10/25/21	1245		3																		005
6	MW-102		WT	G			10/25/21	1440		3																		006
7	MW-103		WT	G			10/25/21	1340		3																		007
8	MW-105		WT	G			10/21/21	1010		3																		008
9	MW-107		WT	G			10/21/21	1505		3																		009
10	MW-109		WT	G			10/21/21	1155		3																		010
11	MW-110		WT	G			10/21/21	1300		3																		011
12	MW-111		WT	G			10/20/21	1345		3																		012

Additional Comments: Higher turbidity readings - MW69R, MW-107

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Leslie Buchinski AECOM	10/27/21	1600				Y/N	Y/N	Y/N	Y/N
CS Loggins	10/21/21	0815	Alten	10/21/21	0815	3	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Leslie Buchinski

SIGNATURE OF SAMPLER: *Leslie Buchinski*

DATE Signed (MM/DD/YY): 10/27/2021

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact



CHAIN-OF-CUSTODY / Analytical Request Document

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

40235953

Page: 2 of 2

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 Milwaukee, WI 53212	Copy To: Keith Nielsen	Company Name: City of Kenosha
Email To: Lanette.Altenbach@aecom.com	Purchase Order No.: 200476	Address: 652 52nd St., Kenosha, WI 53140
Phone: 414-577-1363 Fax:	Project Name: KEP Perimeter GW	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 60623269	Pace Project Manager: Chris Hyska
		Pace Profile #: (2430) Kenosha work

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

ITEM #	Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Filtered (Y/N)	Requested Anal	Pace Project Number Lab I.D.							
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other										
		DRINKING WATER	DW			DATE	TIME	DATE	TIME																				
		WATER	WT			/ /																							
1	MW-112	WT	G			10/20/21	1145				3																	013	
2	MW-116	WT	G			10/27/21	1035				3																	014	
3	PZ-116	WT	G			10/27/21	1135				3																	015	
4	MW-117	WT	G			10/27/21	1235				3																	016	
5	PZ-117	WT	G			10/27/21	1330				3																	017	
6	MW-117D	WT	G			10/27/21	1240				3																	018	
7	PZ-117D	WT	G			10/27/21	1400				3																	019	
8	Trip Blank	WT	G			10/28/21	0700				2																	020	
9		WT																											
10		WT																											
11		WT																											
12		WT																											

Additional Comments:

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Leslie Bychtinski AECOM	10/27/21	1600				Y/N	Y/N	Y/N
C.S. Logistics	10/28/21	0815	Allen	10/28/21	0815	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <u>Leslie Bychtinski</u> SIGNATURE of SAMPLER:		DATE Signed (MM / DD / YY) <u>10/27/2021</u>	Temp in °C Received on Ice Custody Sealed Cooler Samples Intact
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Sample Preservation Receipt Form

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

Client Name: Alum

Project # 40235953

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):

Pace Lab #	Glass							Plastic					Vials				Jars				General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)					
	AG1U	BG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP3U	BP3B	BP3N	BP3S	VG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	JG9U	WGFU	WPFU								SP5T	ZPLC	GN		
001																																			2.5 / 5 / 10
002																																			2.5 / 5 / 10
003																																			2.5 / 5 / 10
004																																			2.5 / 5 / 10
005																																			2.5 / 5 / 10
006																																			2.5 / 5 / 10
007																																			2.5 / 5 / 10
008																																			2.5 / 5 / 10
009																																			2.5 / 5 / 10
010																																			2.5 / 5 / 10
011																																			2.5 / 5 / 10
012																																			2.5 / 5 / 10
013																																			2.5 / 5 / 10
014																																			2.5 / 5 / 10
015																																			2.5 / 5 / 10
016																																			2.5 / 5 / 10
017																																			2.5 / 5 / 10
018																																			2.5 / 5 / 10
019																																			2.5 / 5 / 10
020																																			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	VG9A 40 mL clear ascorbic	JGFU 4 oz amber jar unpres
BG1U 1 liter clear glass	BP3U 250 mL plastic unpres	DG9T 40 mL amber Na Thio	JG9U 9 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP3B 250 mL plastic NaOH	VG9U 40 mL clear vial unpres	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9H 40 mL clear vial HCL	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3S 250 mL plastic H2SO4	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG5U 100 mL amber glass unpres		VG9D 40 mL clear vial DI	ZPLC ziploc bag
AG2S 500 mL amber glass H2SO4			GN
BG3U 250 mL clear glass unpres			

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

Client Name: Aecom

WO# : 40235953

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



Tracking #: _____

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR - 110 Type of Ice Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3 / Corr: 3

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 1/28/21 Initials: CB
 Labeled By Initials: ceR

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>471</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir