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January 30, 2020

File #47358.003

Mr. Kevin McKnight
Remediation & Redevelopment Program
Wisconsin Department of Natural Resources
625 East County Road Y, Suite 700
Oshkosh, WI 54901-9731

Re: **Groundwater Monitoring Status Report**
Koeller Center, 1020 – 1142 South Koeller Street
Oshkosh, Wisconsin
BRRTS: 02-71-547941

Dear Mr. McKnight:

On behalf of Koeller One, LLC, Gannett Fleming, Inc. (GF) is submitting this groundwater monitoring status report for the former dry cleaner facility located at 1142 South Koeller Street in the Koeller Center shopping mall site in Oshkosh. Figure 1 is a site location map, and Figure 2 is an aerial photo that shows the area of investigation.

On April 17, 2017, GF submitted a *Closure Request* that summarized site investigation and groundwater monitoring results through November 2016. On June 20, 2017, the WDNR sent a letter to the Livesey Company, the owner of the Koeller Center, denying site closure. In its June 2017 letter, the WDNR indicated that additional groundwater monitoring of MW-1 through MW-4 and MW-6 was necessary to establish whether the tetrachloroethylene (PCE) plume was stable or receding. The WDNR's June 2017 letter also indicated that Koeller should evaluate whether additional investigation or remedial actions are necessary to obtain closure.

Since the WDNR's June 2017 letter, six rounds of groundwater samples have been collected. Sample collection dates are shown on the table below with an "x" indicating that the well was sampled on that date.

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Gannett Fleming, Inc.
8040 Excelsior Drive • Madison, WI 53717
t: 608-327-5050

www.gannettfleming.com

Gannett Fleming

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Wisconsin Department of Natural Resources
January 30, 2020

Sample Date	Well ID						
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
07/06/17	x	x	x	x	-	x	-
01/08/18	x	x	x	x	-	x	-
08/01/18	x	x	x	x	-	x	-
03/12/19	x	x	x	x	-	x	-
09/18/19	x	x	x	x	x	x	x
12/13/19	x	x	x	x	x	x	x

GF’s latest status report was submitted to the WDNR on August 20, 2018, and included the analytical results of groundwater samples collected in January and August 2018. GF’s August 2018 report also included an evaluation of the need for additional investigation or remediation discussed in the WDNR’s June 2017 letter to Livesey. A summary of groundwater monitoring activities conducted in the months of March, September, and December 2019 are included in this report.

Periodic reporting of site remediation progress to the WDNR is required pursuant to ss. NR 700.11(1) and 724.13(3), Wisconsin Administrative Code. A completed certification page for the report is included with this report.

Recent Scope of Work (March, September, and December 2019)

GF conducted groundwater monitoring activities on March 12, September 18, and December 13, 2019 that included:

- Measuring groundwater elevations in all site wells – MW-1 through MW-7.
- Measuring remediation by natural attenuation (RNA) parameters in MW-1 through MW-4 and MW-6 in March through December; RNA parameters were also measured in MW-5 and MW-7 in September and December. In March, RNA parameters (dissolved oxygen [DO], oxidation-reduction potential [ORP], temperature, pH, and conductivity) were measured with a YSI 550 multi-meter in-situ in each of the wells prior to collecting groundwater samples (i.e., static conditions prior to purging), and then again after the well had been purged and sampled. In September and December, RNA parameters were measured with a Hanna Multi-Parameter Meter after purging each well of four well volumes, immediately before collecting the samples.
- Collecting groundwater samples from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-6 for analyses of volatile organic compounds (VOCs) in March through December.

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Samples from MW-5 and MW-7 were also collected in September and December. Duplicate samples were collected from MW-1 in March 2019, from MW-7 in September, and from MW-3 in December.

Groundwater samples collected from each well were placed into laboratory-supplied containers with hydrochloric acid preservative. The groundwater samples were placed in a cooler with ice and shipped via overnight courier to Pace Analytical Laboratory of Green Bay, Wisconsin, for analysis of VOCs using EPA Method 8026B. The laboratory reports for groundwater samples collected in March, September, and December 2019 are included with this report as Attachment A.

Field Measurements and Analytical Results

Table 1 presents depth to water (DTW) measurements and calculated groundwater elevation data in the site wells through December 2019 and includes all previous measurements. Figure 3 shows the groundwater flow direction based on elevations measured in MW-1 through MW-7 on December 13, 2019. As shown on Figure 3, the groundwater flow direction in December 2019 was to the north-northeast between MW-7 and MW-2, then to the northeast further downgradient. The groundwater flow directions measured in 2019 were consistent with directions measured since MW-5 through MW-7 were installed in March 2016.

Table 2 summarizes the analytical results of groundwater samples collected through December 2019, including the analytical results of samples previously collected from the monitoring wells.

- Duplicate results are averaged in Table 2 for statistical analysis/plotting, per December 2013 Interstate Technology & Regulatory Council guidance.
- PCE was the only compound measured in March through December 2019 at concentrations above its NR 140 Enforcement Standard (ES) and Preventative Action Limit (PAL) of 5.0 and 0.5 micrograms per liter ($\mu\text{g}/\ell$), respectively. Notable concentrations of PCE measured in MW-1, MW-2 and MW-3 during the months of March through December 2019 are discussed below.

Table 3 presents the results of the RNA parameters measured through December 2019 and includes all previous measurements collected from the site wells. The pH of the groundwater measured in source well MW-1 and downgradient well MW-3 has ranged from 6.7 to 7.9 since RNA parameters were first measured in June 2013. DO concentrations in those wells have ranged from 0.17 to 3.82 milligrams per liter (mg/ℓ) since June 2013. The relatively low DO concentrations and neutral pH values indicate that the aquifer would be conducive to reductive dechlorination

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if amendments were made to increase the activity of the microbes that facilitate the breakdown of chlorinated ethenes.

Discussion

Historically, PCE has only been measured in two wells (MW-1 and MW-3) at concentrations above its NR 140 ES of 5.0 µg/l. In December 2019, a PCE concentration of 5.1 µg/l was measured in MW-2, which is the highest concentration of PCE measured in this well since 2008.

Since reaching its maximum concentration of 275 µg/l (the average of 255 and 295 µg/l measured in the two, duplicate samples) in July 2017, PCE concentrations in MW-1 have fluctuated slightly with an overall decreasing trend. The most recent sample collected from MW-1 in December 2019 contained 184 µg/l of PCE. PCE concentrations measured in MW-3 were the highest in September 2019 (81.4 µg/l) but then decreased to 45.2 µg/l (the average of 39.3 and 51 µg/l measured in the two, duplicate samples) in December 2019. Water levels rose about 3.4 to 4.7 feet between January 2018, when the groundwater elevation was at a relative minimum, and December 2019, when it was measured near historical maximum elevations. A chart showing the groundwater elevations and PCE concentrations measured in MW-1 since 2006 is included with this report as Attachment B. Figure 4 shows the estimated extent of PCE in the groundwater at concentrations at or above its NR 140 ES/PAL of 5/0.5 µg/l on December 13, 2019.

GF believes the increase in PCE concentrations measured in the groundwater samples collected from MW-1 and other wells in September and December 2019 is due to the high water table coming into contact with PCE-impacted soil. However, we believe the overall increase in dissolved-phase PCE concentrations is limited and indicates that the residual mass of PCE in the soil is relatively small. Additionally, the hydraulic conductivity of the aquifer is relatively low (2.8×10^{-5} cm/sec) and inhibits the migration of the PCE in the groundwater, as evidenced by the relatively limited extent of PCE at concentrations above the NR 140 ES in the groundwater (about 70 feet) since the dry-cleaning facility associated with this property closed in 1994. There are no potable or municipal wells within 1,200 feet of the site, and the downgradient edge of the PCE plume is over 150 feet from the property line. Based on PCE concentrations measured in the soil and groundwater, GF does not believe there is enough mass of PCE in the source area to cause it to migrate offsite without being diluted to concentrations below the NR 140 PALs.

Because of the low groundwater velocity and the relatively wide fluctuations in the water table elevation over the past 10 years, GF proposes to monitor PCE concentrations in the groundwater on an annual basis going forward. Groundwater monitoring activities will continue until stable/receding trends in PCE concentrations have been established. GF and Livesey are also evaluating alternatives to reduce PCE concentrations in the soil and groundwater and will notify

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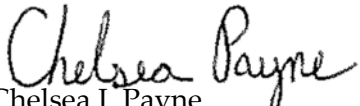
Mr. Kevin McKnight
Wisconsin Department of Natural Resources
January 30, 2020

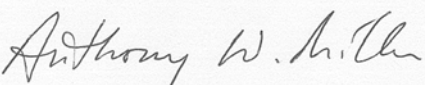
-5-

the WDNR before conducting any remedial activities. In the meantime, please let us know if you have any questions or need additional information to complete your review of this report.

Sincerely,

GANNETT FLEMING, INC.


Chelsea J. Payne
Project Geologist



Anthony W. Miller, P.S.S.
Senior Project Manager

CJP/AWM/jec
Enc.

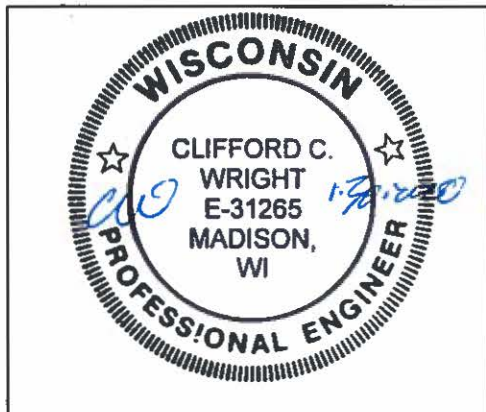
ecc: Ryan Eley (Livesey Company, LLC)

ENGINEERING AND HYDROGEOLOGIST CERTIFICATIONS


I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all 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.

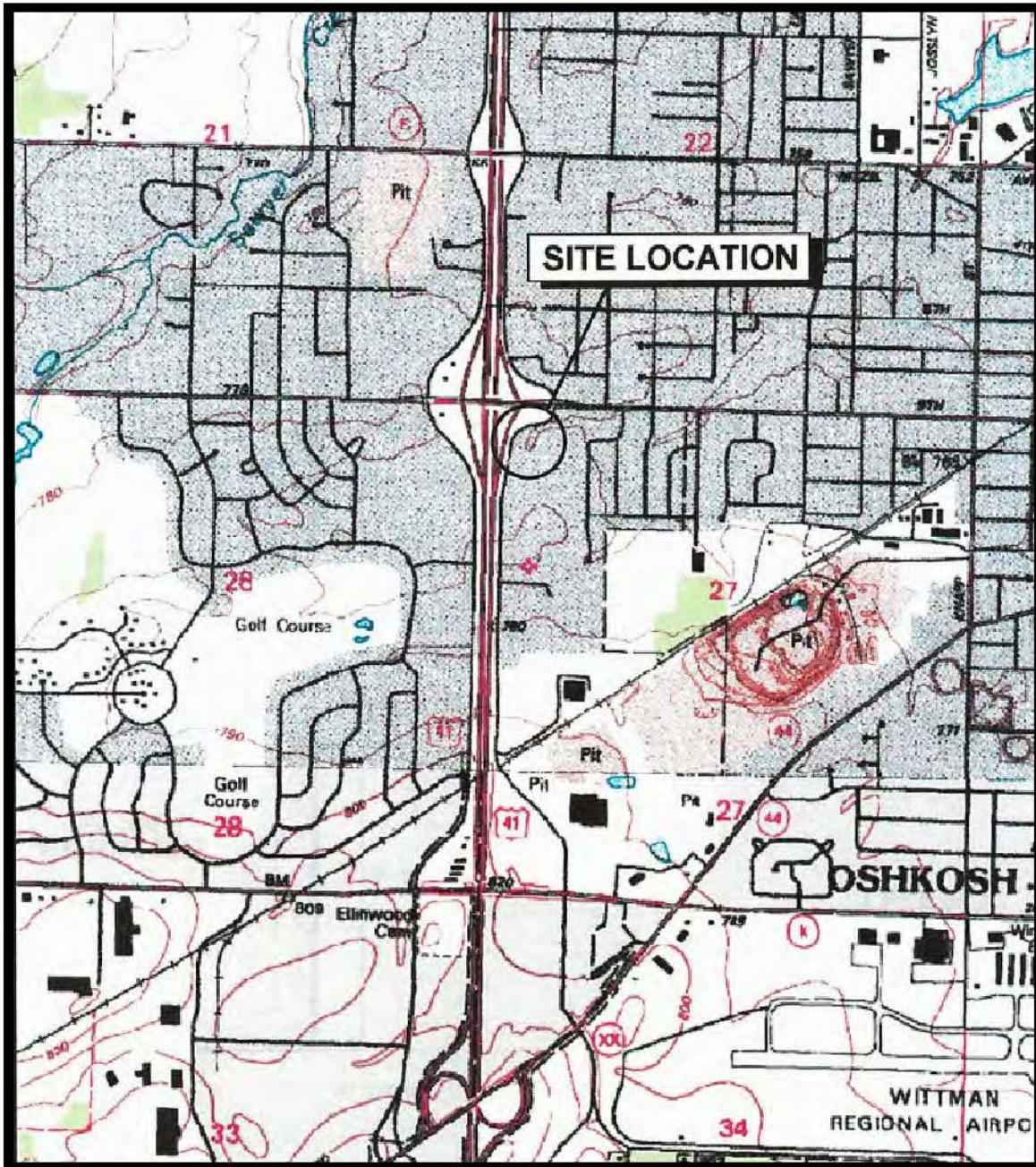
Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature 	Date 1-30-2020

P.E. Seal for E-31265:



I 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 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.

Print Name Clifford C. Wright	Title Project Engineer/Geologist
Signature 	Date 1-30-2020



SCALE: 1 INCH ~ 1800 FEET

7.5 MIN TOPOGRAPHIC MAP
OSHKOSH, WISCONSIN
1992



LOCATION MAP
KOELLER CENTER—OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN



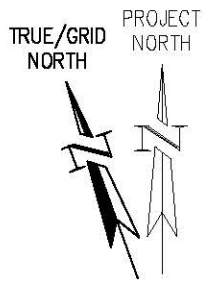
1 INCH ~ 375 FEET

GOOGLE EARTH - 06/15

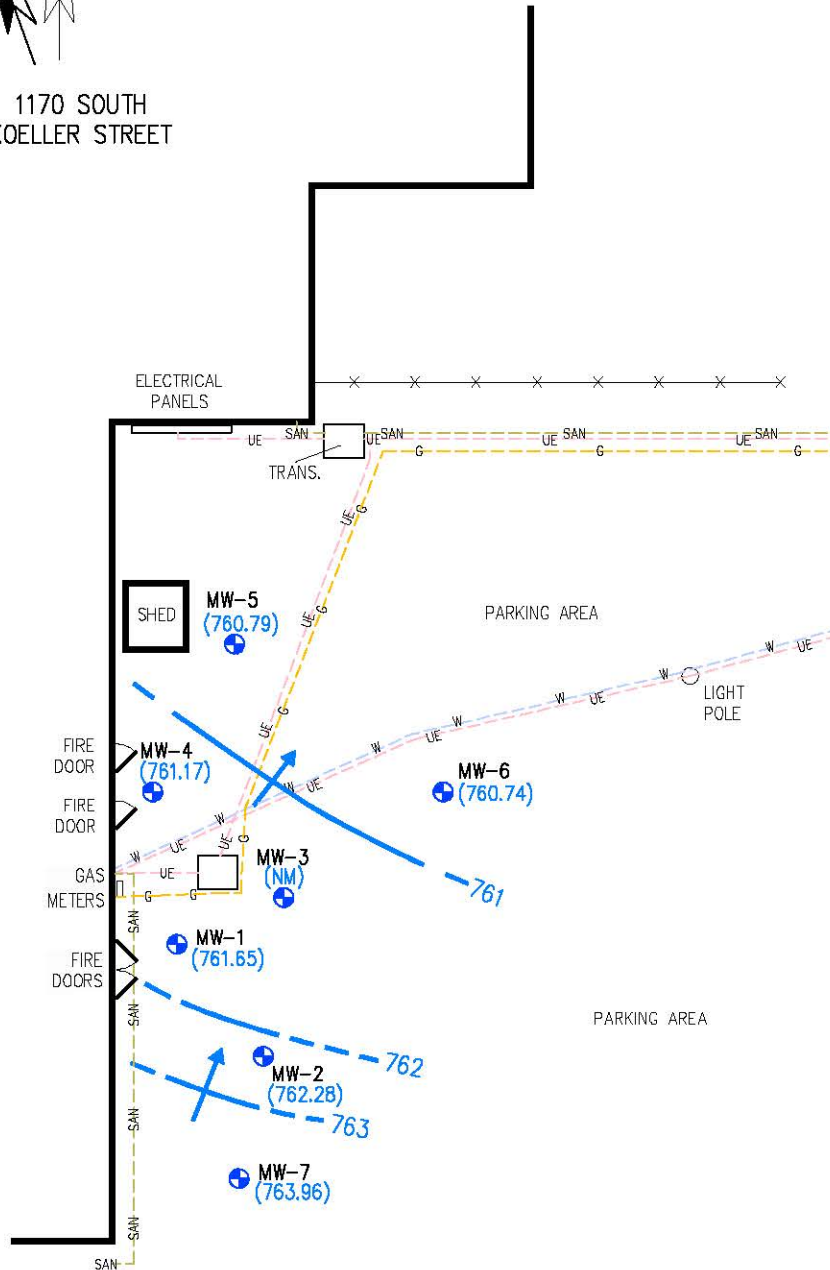


AERIAL PHOTO OF
PARCEL AND AREA
OF INVESTIGATION

KOELLER CENTER-OSHKOSH
KOELLER ONE, LLC
OSHKOSH, WISCONSIN



1170 SOUTH KOELLER STREET



LEGEND

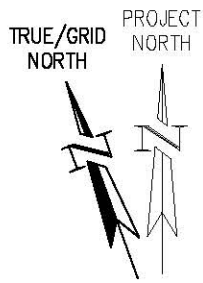
- 761 — GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- ← GROUNDWATER FLOW DIRECTION (12/13/19)
- ⊕ MONITORING WELL
- x— FENCE
- G— UNDERGROUND NATURAL GAS
- UE— UNDERGROUND ELECTRICAL
- W— UNDERGROUND WATER LINE
- SAN— UNDERGROUND SANITARY SEWER

NOTES

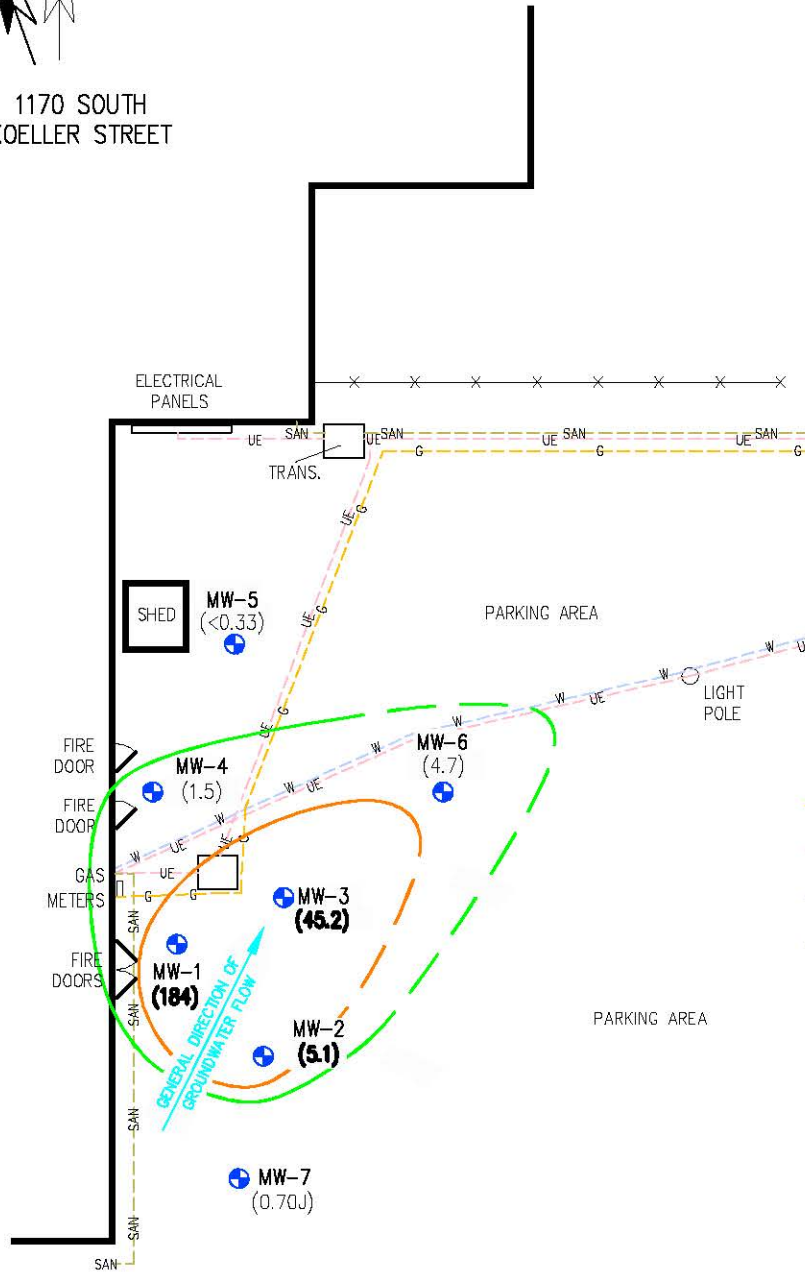
1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.



**GROUNDWATER
CONTOUR MAP
(DECEMBER 2019)**
KOELLER CENTER—OSHKOSH
KOELLER ONE, LLC.
OSHKOSH, WISCONSIN



1170 SOUTH KOELLER STREET



LEGEND

- ESTIMATED EXTENT OF GROUNDWATER WITH PCE AT OR ABOVE THE NR 140 ES OF 5.0 µg/L
- ESTIMATED EXTENT OF GROUNDWATER WITH PCE AT OR ABOVE THE NR 140 PAL OF 0.5 µg/L
- PCE CONCENTRATION (12/13/19) (3.0)
- MONITORING WELL
- FENCE
- UNDERGROUND NATURAL GAS
- UNDERGROUND ELECTRICAL
- UNDERGROUND WATER LINE
- UNDERGROUND SANITARY SEWER

NOTES

1. LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE.
2. A DUPLICATE GROUNDWATER SAMPLE WAS COLLECTED FROM MW-3 ON 12/13/19. THE PCE CONCENTRATION SHOWN ON THIS FIGURE IS THE AVERAGE OF THE TWO MEASURED PCE CONCENTRATIONS, 39.3 µg/L AND 51 µg/L.
3. J=ESTIMATED CONCENTRATION BELOW LABORATORY QUANTITATION LEVEL.

**PCE CONCENTRATIONS
IN GROUNDWATER &
GROUNDWATER FLOW
DIRECTION**

(DECEMBER 2019)
KOELLER CENTER-OSHKOSH
KOELLER ONE, LLC.
OSHKOSH, WISCONSIN



KOELLER ONE, LLC
 KOELLER SHOPPING CENTER
 OSHKOSH, WISCONSIN

TABLE 1

WATER LEVEL ELEVATION DATA (MW-1 THROUGH MW-7)

Well ID	Monitoring Well ID and Reference Information						
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Date Well Installed	9/7/06	8/14/08	8/14/08	5/23/13	3/28/16	3/28/16	3/28/16
Top of Casing Elevation (ft MSL) ^(1,2)	774.19	773.87	774.17	774.25	774.10	773.57	774.04
Top of Screen Elevation (ft MSL)	757.45	762.13	762.43	762.51	765.8	764.18	763.91
Bottom of Screen Elevation (ft MSL)	747.45	747.13	747.43	747.51	750.8	749.18	748.91
Measurement Date	Depth to Water (feet below top of casing)						
10/31/06	16.44	NI	NI	NI	NI	NI	NI
01/10/07	15.82	NI	NI	NI	NI	NI	NI
05/17/07	14.62	NI	NI	NI	NI	NI	NI
08/14/08	14.45	NI	NI	NI	NI	NI	NI
08/21/08	15.20	14.42	14.97	NI	NI	NI	NI
01/28/09	17.71	17.10	17.56	NI	NI	NI	NI
04/08/09	12.71	11.81	12.36	NI	NI	NI	NI
06/14/13 ⁽³⁾	16.78	11.80	12.56	13.34	NI	NI	NI
09/12/13	15.11	14.55	15.25	15.35	NI	NI	NI
03/14/14	16.37	16.05	16.60	16.56	NI	NI	NI
07/10/14	11.84	11.10	11.62	12.20	NI	NI	NI
11/19/14	14.80	14.27	14.84	15.12	NI	NI	NI
12/04/14	14.59	13.95	14.61	14.88	NI	NI	NI
03/28/16	11.05	10.45	10.78	11.41	11.51	11.06	13.51
04/12/16	11.12	10.33	10.54	11.48	11.62	11.09	9.21
06/03/16	13.04	12.10	NM	13.36	13.52	13.01	10.79
06/22/16	13.39	12.50	13.23	13.76	13.95	13.45	11.10
07/14/16	14.28	13.37	14.18	14.61	14.78	14.31	12.26
08/01/16	13.85	12.95	13.76	14.39	14.48	13.98	11.47
09/01/16	14.89	13.82	14.76	14.98	15.41	14.93	12.18
10/05/16	13.58	12.83	13.52	14.47	14.23	13.77	11.15
11/04/16	14.47	13.70	14.55	14.79	14.94	14.43	12.68
11/11/16	14.90	14.09	14.89	15.18	15.21	14.79	13.39
07/06/17	12.47	11.58	12.30	12.82	13.01	12.56	10.42
01/08/18	16.61	16.07	16.61	16.77	16.72	16.33	15.75
08/01/18	14.21	13.37	14.05	14.55	14.79	14.35	11.95
03/12/19	15.10	14.39	NM ⁽⁴⁾	15.50	15.63	15.22	13.74
09/18/19	13.65	12.80	NM ⁽⁵⁾	14.37	14.42	13.95	11.10
12/13/19	12.54	11.59	NM ⁽⁶⁾	13.08	13.31	12.83	10.08
Measurement Date	Water Elevation (ft MSL)						
10/31/06	757.75	NI	NI	NI	NI	NI	NI
01/10/07	758.37	NI	NI	NI	NI	NI	NI

TABLE 1

WATER LEVEL ELEVATION DATA (MW-1 THROUGH MW-7)

Well ID	Monitoring Well ID and Reference Information						
	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Date Well Installed	9/7/06	8/14/08	8/14/08	5/23/13	3/28/16	3/28/16	3/28/16
Top of Casing Elevation (ft MSL) ^(1,2)	774.19	773.87	774.17	774.25	774.10	773.57	774.04
Top of Screen Elevation (ft MSL)	757.45	762.13	762.43	762.51	765.8	764.18	763.91
Bottom of Screen Elevation (ft MSL)	747.45	747.13	747.43	747.51	750.8	749.18	748.91
05/17/07	759.57	NI	NI	NI	NI	NI	NI
08/14/08	759.74	NI	NI	NI	NI	NI	NI
08/21/08	758.99	759.45	759.20	NI	NI	NI	NI
01/28/09	756.48	756.77	756.61	NI	NI	NI	NI
04/08/09	761.48	762.06	761.81	NI	NI	NI	NI
06/14/13 ⁽³⁾	757.41	762.07	761.61	760.91	NI	NI	NI
09/12/13	759.08	759.32	758.92	758.90	NI	NI	NI
03/14/14	757.82	757.82	757.57	757.69	NI	NI	NI
07/10/14	762.35	762.77	762.55	762.05	NI	NI	NI
11/19/14	759.39	759.60	759.33	759.13	NI	NI	NI
12/04/14	759.60	759.92	759.56	759.37	NI	NI	NI
03/28/16	763.14	763.42	763.39	762.84	762.59	762.51	760.53
04/12/16	763.07	763.54	763.63	762.77	762.48	762.48	764.83
06/03/16	761.15	761.77	NM	760.89	760.58	760.56	763.25
06/22/16	760.80	761.37	760.94	760.49	760.15	760.12	762.94
07/14/16	759.91	760.50	759.99	759.64	759.32	759.26	761.78
08/01/16	760.34	760.92	760.41	759.86	759.62	759.59	762.57
09/01/16	759.30	760.05	759.41	759.27	758.69	758.64	761.86
10/05/16	760.61	761.04	760.65	759.78	759.87	759.80	762.89
11/04/16	759.72	760.17	759.62	759.46	759.16	759.14	761.36
11/11/16	759.29	759.78	759.28	759.07	758.89	758.78	760.65
07/06/17	761.72	762.29	761.87	761.43	761.09	761.01	763.62
01/08/18	757.58	757.80	757.56	757.48	757.38	757.24	758.29
08/01/18	759.98	760.50	760.12	759.70	759.31	759.22	762.09
03/12/19	759.09	759.48	NM ⁽⁴⁾	758.75	758.47	758.35	760.30
09/18/19	760.54	761.07	NM ⁽⁵⁾	759.88	759.68	759.62	762.94
12/13/19	761.65	762.28	NM ⁽⁶⁾	761.17	760.79	760.74	763.96

TABLE 1

WATER LEVEL ELEVATION DATA (MW-1 THROUGH MW-7)

NOTES:

Site datum = feet above mean sea level (ft MSL).

USGS Registered Benchmark = 776.04 ft MSL, top of nut of fire hydrant in front of Mitchell Insurance at 1746 W. 9th Ave. (Source City of Oshkosh Engineering Department, 920-236-5065.)

Local Benchmark = 776.11 ft MSL, top of nut of fire hydrant, 240 feet east of MW-1.

NI = Not installed.

NM = Not measured.

FOOTNOTES:

(1) Top of casing elevations for MW-1 through MW-4 based on 03/14/14 survey using MW-1= 774.19 ft MSL as benchmark.

(2) MW-5 through MW-7 surveyed on 3/28/16 using MW-1 top of casing as benchmark. The top nut of the local benchmark fire hydrant was measured at 776.10 ft MSL on 3/28/16 and 4/12/16.

(3) The relatively deep groundwater elevation measured in MW-1 on 06/14/13 was likely due to field error caused by not allowing the water table to rise and stabilize after removing the air-tight cap. This phenomenon was discussed in more detail in Gannett Fleming's November 2013 *Site Investigation Report*.

(4) On 03/12/19, the MW-3 top of casing was bent so that a water level probe could not reach past 8 inches below top of casing.

(5) On 09/18/19, the MW-3 top of casing was filled with sand and debris so DTW was not measured.

(6) The top of casing is damaged and therefore an accurate DTW could not be measured.

KOELLER ONE, LLC
 KOELLER SHOPPING CENTER
 OSHKOSH, WISCONSIN

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/l) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									Comments/Footnotes
Sample Date	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	
NR 140 PAL	0.5	0.5	200	96	0.5	140	1,000	10	200	
NR 140 ES	5.0	5.0	1,000	480	5.0	700	10,000	100	1,000	
MW-1										
09/06/06	<0.50	<0.50	NA	NA	<0.50	<0.50	<1.0	NA	<0.50	
10/31/06	2.95	0.27	0.90	<0.15	<0.15	<0.10	<0.50	<0.10	<0.40	
01/10/07	14.8	<0.20	1.50	<0.15	<0.15	0.13 J	<0.50	<0.10	<0.40	
05/17/07	12.0	<0.20	1.30	<0.20	<0.20	<0.10	<0.60	<0.10	<0.40	
08/21/08	54.4	<0.40	1.95	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40	
01/28/09	36.4	<0.40	0.82 J	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40	(1)
04/08/09	28.7	<0.40	1.22	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40	
06/14/13	89.4	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	
09/12/13	94.4	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	
03/13/14	50.1	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44	
07/10/14	92.3	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	
12/04/14	110	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
04/12/16	185	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
11/11/16	213	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
07/06/17	275	0.58 U	0.39 U	0.85 U	0.85 U	0.85 U	2.60 U	0.85 U	0.85 U	Dup
01/08/18	192	<0.83	<0.56	<1.2	<1.2	<1.2	<3.7	<1.2	<1.2	
08/01/18	162	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	
03/12/19	125	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	Dup
09/18/19	192	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	
12/13/19	184	<0.64	<1.2	<2.1	<0.62	<0.55	<1.85	<1.2	<0.43	
MW-2										
08/21/08	0.88 J	<0.40	1.62	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40	
01/28/09	0.53 J	<0.40	1.15	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40	(1)
04/08/09	0.87 J	<0.40	1.12	<0.20	<0.20	<0.20	<0.60	<0.10	<0.40	
06/14/13	1.5	<0.43	0.48 J	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	
09/12/13	1.0	<0.43	0.45 J	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	
03/13/14	0.88 J	<0.36	0.45 J	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/l) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									Comments/Footnotes
	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	
Sample Date										
NR 140 PAL	0.5	0.5	200	96	0.5	140	1,000	10	200	
NR 140 ES	5.0	5.0	1,000	480	5.0	700	10,000	100	1,000	
07/10/14	2.0	<0.33	0.43 J	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	
12/04/14	1.1	<0.33	0.50 J	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
04/12/16	0.95 J	<0.33	0.44 J	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
11/11/16	1.6	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
07/06/17	1.9	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
01/08/18	2.0	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
08/01/18	2.5	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	(2)
03/12/19	1.8	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	2.6	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	5.1	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
MW-3										
08/21/08	4.80	<0.40	0.36 J	0.22 J	0.88	1.09	4.39	0.14 J	2.21	
01/28/09	3.80	<0.40	<0.30	0.21 J	0.27	0.72	2.62	0.12 J	0.65 J J	
04/08/09	7.12	<0.40	<0.30	<0.20	<0.20	0.36 J	1.34 J	<0.10	<0.40	
06/14/13	8.9	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	
09/12/13	4.9	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	
03/13/14	10	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44	
07/10/14	22.9	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	
12/04/14	37.4	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	Dup
04/12/16	18.6	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
11/11/16	10.1	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
07/06/17	28.7	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
01/08/18	35.8	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	Dup
08/01/18	29.1	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
03/12/19	33.1	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	81.4	1.1	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	45.2	0.63 J	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	Dup
MW-4										
06/14/13	<0.47	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	Dup
09/12/13	0.82 J	<0.43	<0.40	<0.57	<0.50	<0.50	<0.82	<0.35	<0.44	Dup
03/13/14	<0.47	<0.36	<0.40	<0.50	<0.50	<0.50	<0.82	<0.35	<0.44	Dup
07/10/14	1.3	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

Well ID	Concentration (µg/l) and Results Qualifier(s) for Detected Volatile Organic Compounds (VOCs)									Comments/Footnotes
	Tetrachloroethylene	Trichloroethylene	Dichlorodifluoromethane	1,2,4-Trimethylbenzene	Benzene	Ethylbenzene	Xylenes	Styrene	Toluene	
Sample Date										
NR 140 PAL	0.5	0.5	200	96	0.5	140	1,000	10	200	
NR 140 ES	5.0	5.0	1,000	480	5.0	700	10,000	100	1,000	
12/04/14	0.77 J	<0.33	<0.20	<0.50	<0.50	<0.50	<0.82	<0.50	<0.50	
04/12/16	1.2	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
11/11/16	0.98 J	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
07/06/17	1.7	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
01/08/18	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
08/01/18	1.3	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	(2)
03/12/19	0.96 J	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	1.5	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	1.5	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
MW-5										
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
11/11/16	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
09/18/19	<0.33	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	0.26 J	
12/13/19	<0.33	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
MW-6										
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	Dup
11/11/16	0.54 J	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
07/06/17	0.64 J	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
01/08/18	2.6	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
08/01/18	2.15	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	Dup ⁽²⁾
03/12/19	3.0	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
09/18/19	4.8	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
12/13/19	4.7	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	
MW-7										
04/12/16	<0.47	<0.33	<0.20	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	
11/11/16	<0.50	<0.33	<0.22	<0.50	<0.50	<0.50	<1.50	<0.50	<0.50	Dup
09/18/19	0.59 J	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	Dup ⁽³⁾
12/13/19	0.70 J	<0.26	<0.50	<0.84	<0.25	<0.22	<0.73	<0.47	<0.17	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING ANALYTICAL RESULTS

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$).

Detected concentrations at or above an NR 140 PAL are italicized and those at or above an NR 140 ES are bold.

Duplicate (Dup) results are averaged for statistical analysis/plotting, per December 2013 ITRC guidance.

All samples except those collected on 09/06/06 were analyzed for a full suite of VOCs using EPA Method 8021 or EPA 8260B. Only compounds detected in one or more samples are shown on this table.

J = Estimated concentration below laboratory quantitation level.

NA = Not analyzed.

NR 140 ES = Wisconsin Administrative Code NR 140 Enforcement Standard.

NR 140 PAL = Wisconsin Administrative Code NR 140 Preventive Action Limit.

PCE = Tetrachloroethylene.

TCE = Trichloroethylene.

U = Compound not detected at or above the average of the limits of detection measured in the sample and its duplicate.

FOOTNOTES:

(1) The 01/28/09 trip blank contained 0.84 J $\mu\text{g}/\ell$ of chloromethane as did MW-1 (0.47 J $\mu\text{g}/\ell$) and MW-2 (1.27 $\mu\text{g}/\ell$).

(2) Methylene chloride was detected at concentrations above its method detection limit but below its quantitation limit in the samples collected on 08/01/18 from MW-2 (at 1.0 $\mu\text{g}/\ell$), MW-4 (0.75 $\mu\text{g}/\ell$), and the two samples collected from MW-6 (1.4 and 0.72 $\mu\text{g}/\ell$).

KOELLER ONE, LLC
KOELLER SHOPPING CENTER
OSHKOSH, WISCONSIN

TABLE 3

SUMMARY OF HISTORICAL RNA DATA FIELD MEASUREMENTS

Well ID	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	pH	ORP (mV)	Comments/ Footnotes
Measurement Date						
MW-1						
06/15/13	14.5	0.375	2.70	7.3	-36.2	
09/12/13	15.4	0.623	2.07	7.6	-77.1	
07/06/17	14.8	0.513	3.26	7.7	57.2	
07/06/17	15.4	0.742	3.82	7.9	27.3	(1)
01/08/18	14.4	0.443	0.56	7.4	68.2	
01/08/18	14.0	0.721	0.73	7.8	54.7	(1)
08/01/18	14.6	0.730	1.08	7.3	171.8	(2)
03/12/19	12.0	0.698	0.80	7.6	151.1	(2)
03/12/19	11.5	0.729	1.21	7.6	87.6	(3)
09/18/19	16.5	0.787	2.70	7.7	165.1	(2)
12/13/19	15.3	0.950	1.95	7.7	218.7	(2)
MW-2						
06/15/13	13.7	3.465	1.87	7.0	-22.9	
09/12/13	15.6	2.964	3.49	6.9	-56.5	
07/06/17	13.9	5.395	0.42	6.9	7.6	
07/06/17	13.5	5.141	0.58	6.8	31.3	(1)
01/08/18	14.4	4.837	0.40	6.3	137.5	
01/08/18	13.9	5.227	0.39	6.7	52.6	(1)
08/01/18	14.4	5.385	1.52	6.1	202.0	(2)
03/12/19	10.6	4.202	1.89	6.6	189.0	(2)
03/12/19	10.6	4.434	0.55	6.7	59.8	(3)
09/18/19	16.4	5.941	1.59	6.8	227.3	(3)
12/13/19	14.8	6.704	1.44	6.8	220.2	(2)
MW-3						
06/15/13	14.0	2.013	1.35	6.9	24.0	
09/12/13	15.1	1.427	3.12	7.0	-22.7	
07/06/17	14.4	3.871	1.54	6.9	39.3	
07/06/17	14.2	3.456	2.65	7.1	89.5	(1)
01/08/18	10.3	2.732	0.65	6.7	92.7	
01/08/18	13.4	2.323	1.87	7.2	65.8	(1)
08/01/18	14.9	0.754	0.55	7.0	144.1	(2)
03/12/19	10.6	2.623	0.17	7.2	-82.6	(2)
09/18/19	16.8	0.915	2.34	7.3	-174.3	(2)
12/13/19	14.6	4.229	1.85	7.2	-28.2	(2)
MW-4						
06/15/13	15.0	0.607	2.64	8.0	27.2	
09/12/13	16.0	0.547	2.43	7.8	-6.3	
07/06/17	15.9	0.676	2.65	7.8	11.6	
07/06/17	14.5	0.551	0.68	7.8	55.0	(1)
01/08/18	13.0	0.494	1.82	7.7	77.5	(1)
08/01/18	15.7	0.456	1.18	7.4	171.9	(2)

TABLE 3

SUMMARY OF HISTORICAL RNA DATA FIELD MEASUREMENTS

Well ID	Temperature	Conductivity	Dissolved Oxygen		ORP	Comments/
Measurement Date	(°C)	(mS/cm)	(mg/l)	pH	(mV)	Footnotes
03/12/19	12.5	0.426	2.60	7.7	170.0	(2)
03/12/19	12.0	0.412	4.30	7.7	136.3	(3)
09/18/19	17.4	0.582	3.40	7.8	190.5	(2)
12/13/19	15.6	0.558	2.59	7.9	212.9	(2)
MW-5						
07/06/17	16.1	1.660	4.9	7.3	34.3	
09/18/19	16.6	2.455	1.62	7.1	175.3	(2)
12/13/19	15.8	2.373	1.43	7.1	236.3	(2)
MW-6						
07/06/17	14.4	3.095	0.33	7.1	14.8	
07/06/17	14.2	2.850	0.34	7.0	43.4	(1)
01/08/18	13.6	1.343	0.23	6.8	135.0	
01/08/18	13.8	1.385	0.74	7.3	61.1	(1)
08/01/18	13.4	1.263	0.68	6.9	162.8	(2)
03/12/19	11.3	1.137	1.20	7.2	177.5	(2)
03/12/19	10.9	1.154	2.69	7.2	106.0	(3)
09/18/19	15.3	1.203	1.72	7.4	209.2	(3)
12/13/19	14.7	1.571	1.47	7.4	205.3	(2)
MW-7						
07/06/17	15.5	6.310	2.52	6.9	77.7	
08/01/18	16.8	7.926	2.23	6.9	184.1	(2)
09/18/19	17.7	7.278	8.41	7.0	242.0	(2)
12/13/19	14.3	7.201	2.83	7.0	212.7	(2)

NOTES:

RNA = Remediation through natural attenuation.

Conductivity in milliSiemens per centimeter (mS/cm).

Dissolved oxygen (DO) concentration in milligrams per liter (mg/l).

Oxidation reduction potential (ORP) in millivolts (mV).

Temperature in degrees Celsius (°C).

Water quality parameter data collected using a YSI 556 multi-parameter meter prior to 09/18/19, and a Hanna HI98194 on 09/18/19 and thereafter.

FOOTNOTES:

(1) RNA parameters collected in-situ after purging and sampling.

(2) RNA parameters collected after purging and prior to sampling.

(3) RNA parameters collected after purging and sampling.

ATTACHMENT A

**ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORDS FOR GROUNDWATER
SAMPLES COLLECTED IN MARCH, SEPTEMBER, AND DECEMBER 2019**

The laboratory report and
QA/QC data were
reviewed & approved by
AWM on 03/18/19

March 18, 2019

Tony Miller
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 47358.003 KOELLER ONE
Pace Project No.: 40184122

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on March 13, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chelsea Payne, Gannett Fleming Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40184122001	MW-1	Water	03/12/19 12:25	03/13/19 10:05
40184122002	MW-1 DUP	Water	03/12/19 12:25	03/13/19 10:05
40184122003	MW-2	Water	03/12/19 11:20	03/13/19 10:05
40184122004	MW-3	Water	03/12/19 15:30	03/13/19 10:05
40184122005	MW-4	Water	03/12/19 12:40	03/13/19 10:05
40184122006	MW-6	Water	03/12/19 13:35	03/13/19 10:05
40184122007	TRIP BLANK	Water	03/12/19 00:00	03/13/19 10:05

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SAMPLE ANALYTE COUNT

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40184122001	MW-1	EPA 8260	HNW	63
40184122002	MW-1 DUP	EPA 8260	HNW	63
40184122003	MW-2	EPA 8260	HNW	63
40184122004	MW-3	EPA 8260	HNW	63
40184122005	MW-4	EPA 8260	HNW	63
40184122006	MW-6	EPA 8260	HNW	63
40184122007	TRIP BLANK	EPA 8260	HNW	63

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SUMMARY OF DETECTION

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40184122001	MW-1					
EPA 8260	Tetrachloroethene	131	ug/L	2.7	03/15/19 16:01	
40184122002	MW-1 DUP					
EPA 8260	Tetrachloroethene	118	ug/L	2.7	03/15/19 16:24	
40184122003	MW-2					
EPA 8260	Tetrachloroethene	1.8	ug/L	1.1	03/15/19 18:16	
40184122004	MW-3					
EPA 8260	Tetrachloroethene	33.1	ug/L	1.1	03/15/19 18:39	
40184122005	MW-4					
EPA 8260	Tetrachloroethene	0.96J	ug/L	1.1	03/15/19 19:01	
40184122006	MW-6					
EPA 8260	Tetrachloroethene	3.0	ug/L	1.1	03/15/19 19:24	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-1 **Lab ID: 40184122001** Collected: 03/12/19 12:25 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		03/15/19 16:01	630-20-6	
1,1,1-Trichloroethane	<0.61	ug/L	2.5	0.61	2.5		03/15/19 16:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		03/15/19 16:01	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		03/15/19 16:01	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		03/15/19 16:01	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		03/15/19 16:01	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		03/15/19 16:01	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		03/15/19 16:01	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		03/15/19 16:01	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		03/15/19 16:01	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		03/15/19 16:01	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		03/15/19 16:01	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		03/15/19 16:01	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		03/15/19 16:01	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		03/15/19 16:01	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		03/15/19 16:01	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		03/15/19 16:01	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		03/15/19 16:01	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		03/15/19 16:01	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		03/15/19 16:01	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		03/15/19 16:01	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		03/15/19 16:01	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		03/15/19 16:01	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		03/15/19 16:01	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		03/15/19 16:01	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		03/15/19 16:01	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		03/15/19 16:01	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		03/15/19 16:01	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		03/15/19 16:01	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		03/15/19 16:01	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		03/15/19 16:01	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		03/15/19 16:01	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		03/15/19 16:01	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		03/15/19 16:01	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		03/15/19 16:01	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		03/15/19 16:01	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		03/15/19 16:01	75-71-8	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		03/15/19 16:01	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		03/15/19 16:01	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		03/15/19 16:01	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		03/15/19 16:01	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		03/15/19 16:01	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		03/15/19 16:01	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		03/15/19 16:01	100-42-5	
Tetrachloroethene	131	ug/L	2.7	0.82	2.5		03/15/19 16:01	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		03/15/19 16:01	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-1 **Lab ID: 40184122001** Collected: 03/12/19 12:25 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.64	ug/L	2.5	0.64	2.5		03/15/19 16:01	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		03/15/19 16:01	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		03/15/19 16:01	75-01-4	
cis-1,2-Dichloroethene	<0.68	ug/L	2.5	0.68	2.5		03/15/19 16:01	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		03/15/19 16:01	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		03/15/19 16:01	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		03/15/19 16:01	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		03/15/19 16:01	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		03/15/19 16:01	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		03/15/19 16:01	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		03/15/19 16:01	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		03/15/19 16:01	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		03/15/19 16:01	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		03/15/19 16:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		2.5		03/15/19 16:01	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		2.5		03/15/19 16:01	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2.5		03/15/19 16:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-1 DUP **Lab ID: 40184122002** Collected: 03/12/19 12:25 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		03/15/19 16:24	630-20-6	
1,1,1-Trichloroethane	<0.61	ug/L	2.5	0.61	2.5		03/15/19 16:24	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		03/15/19 16:24	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		03/15/19 16:24	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		03/15/19 16:24	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		03/15/19 16:24	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		03/15/19 16:24	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		03/15/19 16:24	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		03/15/19 16:24	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		03/15/19 16:24	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		03/15/19 16:24	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		03/15/19 16:24	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		03/15/19 16:24	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		03/15/19 16:24	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		03/15/19 16:24	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		03/15/19 16:24	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		03/15/19 16:24	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		03/15/19 16:24	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		03/15/19 16:24	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		03/15/19 16:24	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		03/15/19 16:24	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		03/15/19 16:24	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		03/15/19 16:24	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		03/15/19 16:24	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		03/15/19 16:24	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		03/15/19 16:24	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		03/15/19 16:24	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		03/15/19 16:24	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		03/15/19 16:24	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		03/15/19 16:24	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		03/15/19 16:24	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		03/15/19 16:24	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		03/15/19 16:24	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		03/15/19 16:24	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		03/15/19 16:24	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		03/15/19 16:24	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		03/15/19 16:24	75-71-8	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		03/15/19 16:24	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		03/15/19 16:24	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		03/15/19 16:24	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		03/15/19 16:24	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		03/15/19 16:24	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		03/15/19 16:24	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		03/15/19 16:24	100-42-5	
Tetrachloroethene	118	ug/L	2.7	0.82	2.5		03/15/19 16:24	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		03/15/19 16:24	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-1 DUP **Lab ID: 40184122002** Collected: 03/12/19 12:25 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.64	ug/L	2.5	0.64	2.5		03/15/19 16:24	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		03/15/19 16:24	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		03/15/19 16:24	75-01-4	
cis-1,2-Dichloroethene	<0.68	ug/L	2.5	0.68	2.5		03/15/19 16:24	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		03/15/19 16:24	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		03/15/19 16:24	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		03/15/19 16:24	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		03/15/19 16:24	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		03/15/19 16:24	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		03/15/19 16:24	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		03/15/19 16:24	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		03/15/19 16:24	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		03/15/19 16:24	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		03/15/19 16:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		2.5		03/15/19 16:24	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		2.5		03/15/19 16:24	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2.5		03/15/19 16:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-2 **Lab ID: 40184122003** Collected: 03/12/19 11:20 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 18:16	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/15/19 18:16	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 18:16	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/15/19 18:16	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 18:16	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/15/19 18:16	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		03/15/19 18:16	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		03/15/19 18:16	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		03/15/19 18:16	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/15/19 18:16	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/15/19 18:16	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		03/15/19 18:16	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		03/15/19 18:16	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 18:16	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 18:16	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/15/19 18:16	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/15/19 18:16	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/15/19 18:16	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		03/15/19 18:16	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/15/19 18:16	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		03/15/19 18:16	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		03/15/19 18:16	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		03/15/19 18:16	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		03/15/19 18:16	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		03/15/19 18:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		03/15/19 18:16	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		03/15/19 18:16	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		03/15/19 18:16	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		03/15/19 18:16	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		03/15/19 18:16	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 18:16	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/15/19 18:16	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/15/19 18:16	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/15/19 18:16	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		03/15/19 18:16	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		03/15/19 18:16	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/15/19 18:16	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		03/15/19 18:16	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		03/15/19 18:16	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		03/15/19 18:16	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/15/19 18:16	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/15/19 18:16	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/15/19 18:16	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		03/15/19 18:16	100-42-5	
Tetrachloroethene	1.8	ug/L	1.1	0.33	1		03/15/19 18:16	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		03/15/19 18:16	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-2 **Lab ID: 40184122003** Collected: 03/12/19 11:20 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/15/19 18:16	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		03/15/19 18:16	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/15/19 18:16	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/15/19 18:16	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		03/15/19 18:16	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		03/15/19 18:16	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 18:16	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		03/15/19 18:16	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		03/15/19 18:16	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		03/15/19 18:16	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		03/15/19 18:16	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		03/15/19 18:16	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		03/15/19 18:16	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		03/15/19 18:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/15/19 18:16	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		03/15/19 18:16	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/15/19 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-3 **Lab ID: 40184122004** Collected: 03/12/19 15:30 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 18:39	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/15/19 18:39	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 18:39	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/15/19 18:39	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 18:39	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/15/19 18:39	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		03/15/19 18:39	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		03/15/19 18:39	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		03/15/19 18:39	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/15/19 18:39	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/15/19 18:39	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		03/15/19 18:39	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		03/15/19 18:39	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 18:39	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 18:39	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/15/19 18:39	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/15/19 18:39	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/15/19 18:39	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		03/15/19 18:39	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/15/19 18:39	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		03/15/19 18:39	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		03/15/19 18:39	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		03/15/19 18:39	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		03/15/19 18:39	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		03/15/19 18:39	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		03/15/19 18:39	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		03/15/19 18:39	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		03/15/19 18:39	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		03/15/19 18:39	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		03/15/19 18:39	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 18:39	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/15/19 18:39	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/15/19 18:39	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/15/19 18:39	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		03/15/19 18:39	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		03/15/19 18:39	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/15/19 18:39	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		03/15/19 18:39	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		03/15/19 18:39	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		03/15/19 18:39	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/15/19 18:39	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/15/19 18:39	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/15/19 18:39	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		03/15/19 18:39	100-42-5	
Tetrachloroethene	33.1	ug/L	1.1	0.33	1		03/15/19 18:39	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		03/15/19 18:39	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-3 **Lab ID: 40184122004** Collected: 03/12/19 15:30 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/15/19 18:39	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		03/15/19 18:39	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/15/19 18:39	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/15/19 18:39	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		03/15/19 18:39	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		03/15/19 18:39	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 18:39	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		03/15/19 18:39	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		03/15/19 18:39	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		03/15/19 18:39	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		03/15/19 18:39	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		03/15/19 18:39	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		03/15/19 18:39	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		03/15/19 18:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/15/19 18:39	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		03/15/19 18:39	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/19 18:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-4 **Lab ID: 40184122005** Collected: 03/12/19 12:40 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 19:01	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/15/19 19:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 19:01	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/15/19 19:01	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 19:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/15/19 19:01	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		03/15/19 19:01	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		03/15/19 19:01	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		03/15/19 19:01	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/15/19 19:01	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/15/19 19:01	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		03/15/19 19:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		03/15/19 19:01	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 19:01	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 19:01	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/15/19 19:01	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/15/19 19:01	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/15/19 19:01	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		03/15/19 19:01	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/15/19 19:01	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		03/15/19 19:01	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		03/15/19 19:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		03/15/19 19:01	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		03/15/19 19:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		03/15/19 19:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		03/15/19 19:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		03/15/19 19:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		03/15/19 19:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		03/15/19 19:01	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		03/15/19 19:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 19:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/15/19 19:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/15/19 19:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/15/19 19:01	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		03/15/19 19:01	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		03/15/19 19:01	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/15/19 19:01	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		03/15/19 19:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		03/15/19 19:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		03/15/19 19:01	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/15/19 19:01	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/15/19 19:01	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/15/19 19:01	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		03/15/19 19:01	100-42-5	
Tetrachloroethene	0.96J	ug/L	1.1	0.33	1		03/15/19 19:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		03/15/19 19:01	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-4 **Lab ID: 40184122005** Collected: 03/12/19 12:40 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/15/19 19:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		03/15/19 19:01	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/15/19 19:01	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/15/19 19:01	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		03/15/19 19:01	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		03/15/19 19:01	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 19:01	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		03/15/19 19:01	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		03/15/19 19:01	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		03/15/19 19:01	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		03/15/19 19:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		03/15/19 19:01	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		03/15/19 19:01	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		03/15/19 19:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/15/19 19:01	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		03/15/19 19:01	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		03/15/19 19:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-6 **Lab ID: 40184122006** Collected: 03/12/19 13:35 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 19:24	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/15/19 19:24	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 19:24	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/15/19 19:24	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 19:24	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/15/19 19:24	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		03/15/19 19:24	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		03/15/19 19:24	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		03/15/19 19:24	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/15/19 19:24	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/15/19 19:24	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		03/15/19 19:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		03/15/19 19:24	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 19:24	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 19:24	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/15/19 19:24	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/15/19 19:24	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/15/19 19:24	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		03/15/19 19:24	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/15/19 19:24	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		03/15/19 19:24	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		03/15/19 19:24	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		03/15/19 19:24	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		03/15/19 19:24	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		03/15/19 19:24	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		03/15/19 19:24	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		03/15/19 19:24	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		03/15/19 19:24	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		03/15/19 19:24	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		03/15/19 19:24	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 19:24	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/15/19 19:24	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/15/19 19:24	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/15/19 19:24	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		03/15/19 19:24	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		03/15/19 19:24	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/15/19 19:24	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		03/15/19 19:24	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		03/15/19 19:24	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		03/15/19 19:24	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/15/19 19:24	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/15/19 19:24	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/15/19 19:24	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		03/15/19 19:24	100-42-5	
Tetrachloroethene	3.0	ug/L	1.1	0.33	1		03/15/19 19:24	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		03/15/19 19:24	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: MW-6 **Lab ID: 40184122006** Collected: 03/12/19 13:35 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/15/19 19:24	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		03/15/19 19:24	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/15/19 19:24	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/15/19 19:24	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		03/15/19 19:24	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		03/15/19 19:24	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 19:24	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		03/15/19 19:24	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		03/15/19 19:24	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		03/15/19 19:24	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		03/15/19 19:24	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		03/15/19 19:24	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		03/15/19 19:24	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		03/15/19 19:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/15/19 19:24	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		03/15/19 19:24	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/15/19 19:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: TRIP BLANK **Lab ID: 40184122007** Collected: 03/12/19 00:00 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 21:16	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		03/15/19 21:16	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 21:16	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		03/15/19 21:16	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		03/15/19 21:16	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		03/15/19 21:16	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		03/15/19 21:16	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		03/15/19 21:16	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		03/15/19 21:16	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		03/15/19 21:16	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		03/15/19 21:16	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		03/15/19 21:16	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		03/15/19 21:16	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 21:16	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		03/15/19 21:16	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		03/15/19 21:16	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		03/15/19 21:16	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		03/15/19 21:16	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		03/15/19 21:16	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		03/15/19 21:16	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		03/15/19 21:16	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		03/15/19 21:16	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		03/15/19 21:16	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		03/15/19 21:16	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		03/15/19 21:16	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		03/15/19 21:16	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		03/15/19 21:16	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		03/15/19 21:16	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		03/15/19 21:16	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		03/15/19 21:16	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 21:16	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		03/15/19 21:16	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/15/19 21:16	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		03/15/19 21:16	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		03/15/19 21:16	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		03/15/19 21:16	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		03/15/19 21:16	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		03/15/19 21:16	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		03/15/19 21:16	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		03/15/19 21:16	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		03/15/19 21:16	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		03/15/19 21:16	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		03/15/19 21:16	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		03/15/19 21:16	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		03/15/19 21:16	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		03/15/19 21:16	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Sample: TRIP BLANK **Lab ID: 40184122007** Collected: 03/12/19 00:00 Received: 03/13/19 10:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		03/15/19 21:16	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		03/15/19 21:16	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		03/15/19 21:16	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		03/15/19 21:16	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		03/15/19 21:16	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		03/15/19 21:16	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		03/15/19 21:16	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		03/15/19 21:16	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		03/15/19 21:16	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		03/15/19 21:16	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		03/15/19 21:16	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		03/15/19 21:16	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		03/15/19 21:16	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		03/15/19 21:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/15/19 21:16	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		03/15/19 21:16	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		03/15/19 21:16	2037-26-5	

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40184122

QC Batch: 315456 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40184122001, 40184122002, 40184122003, 40184122004, 40184122005, 40184122006, 40184122007

METHOD BLANK: 1835283 Matrix: Water
Associated Lab Samples: 40184122001, 40184122002, 40184122003, 40184122004, 40184122005, 40184122006, 40184122007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	03/15/19 13:24	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	03/15/19 13:24	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	03/15/19 13:24	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	03/15/19 13:24	
1,1-Dichloroethane	ug/L	<0.27	1.0	03/15/19 13:24	
1,1-Dichloroethene	ug/L	<0.24	1.0	03/15/19 13:24	
1,1-Dichloropropene	ug/L	<0.54	1.8	03/15/19 13:24	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	03/15/19 13:24	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	03/15/19 13:24	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	03/15/19 13:24	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	03/15/19 13:24	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	03/15/19 13:24	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	03/15/19 13:24	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	03/15/19 13:24	
1,2-Dichloroethane	ug/L	<0.28	1.0	03/15/19 13:24	
1,2-Dichloropropane	ug/L	<0.28	1.0	03/15/19 13:24	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	03/15/19 13:24	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	03/15/19 13:24	
1,3-Dichloropropane	ug/L	<0.83	2.8	03/15/19 13:24	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	03/15/19 13:24	
2,2-Dichloropropane	ug/L	<2.3	7.6	03/15/19 13:24	
2-Chlorotoluene	ug/L	<0.93	5.0	03/15/19 13:24	
4-Chlorotoluene	ug/L	<0.76	2.5	03/15/19 13:24	
Benzene	ug/L	<0.25	1.0	03/15/19 13:24	
Bromobenzene	ug/L	<0.24	1.0	03/15/19 13:24	
Bromochloromethane	ug/L	<0.36	5.0	03/15/19 13:24	
Bromodichloromethane	ug/L	<0.36	1.2	03/15/19 13:24	
Bromoform	ug/L	<4.0	13.2	03/15/19 13:24	
Bromomethane	ug/L	<0.97	5.0	03/15/19 13:24	
Carbon tetrachloride	ug/L	<0.17	1.0	03/15/19 13:24	
Chlorobenzene	ug/L	<0.71	2.4	03/15/19 13:24	
Chloroethane	ug/L	<1.3	5.0	03/15/19 13:24	
Chloroform	ug/L	<1.3	5.0	03/15/19 13:24	
Chloromethane	ug/L	<2.2	7.3	03/15/19 13:24	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	03/15/19 13:24	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	03/15/19 13:24	
Dibromochloromethane	ug/L	<2.6	8.7	03/15/19 13:24	
Dibromomethane	ug/L	<0.94	3.1	03/15/19 13:24	
Dichlorodifluoromethane	ug/L	<0.50	5.0	03/15/19 13:24	
Ethylbenzene	ug/L	<0.22	1.0	03/15/19 13:24	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	03/15/19 13:24	

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.

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

METHOD BLANK: 1835283

Matrix: Water

Associated Lab Samples: 40184122001, 40184122002, 40184122003, 40184122004, 40184122005, 40184122006, 40184122007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	03/15/19 13:24	
m&p-Xylene	ug/L	<0.47	2.0	03/15/19 13:24	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	03/15/19 13:24	
Methylene Chloride	ug/L	<0.58	5.0	03/15/19 13:24	
n-Butylbenzene	ug/L	<0.71	2.4	03/15/19 13:24	
n-Propylbenzene	ug/L	<0.81	5.0	03/15/19 13:24	
Naphthalene	ug/L	<1.2	5.0	03/15/19 13:24	
o-Xylene	ug/L	<0.26	1.0	03/15/19 13:24	
p-Isopropyltoluene	ug/L	<0.80	2.7	03/15/19 13:24	
sec-Butylbenzene	ug/L	<0.85	5.0	03/15/19 13:24	
Styrene	ug/L	<0.47	1.6	03/15/19 13:24	
tert-Butylbenzene	ug/L	<0.30	1.0	03/15/19 13:24	
Tetrachloroethene	ug/L	<0.33	1.1	03/15/19 13:24	
Toluene	ug/L	<0.17	5.0	03/15/19 13:24	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	03/15/19 13:24	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	03/15/19 13:24	
Trichloroethene	ug/L	<0.26	1.0	03/15/19 13:24	
Trichlorofluoromethane	ug/L	<0.21	1.0	03/15/19 13:24	
Vinyl chloride	ug/L	<0.17	1.0	03/15/19 13:24	
4-Bromofluorobenzene (S)	%	100	70-130	03/15/19 13:24	
Dibromofluoromethane (S)	%	105	70-130	03/15/19 13:24	
Toluene-d8 (S)	%	102	70-130	03/15/19 13:24	

LABORATORY CONTROL SAMPLE: 1835284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	67-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	54.7	109	70-134	
1,1-Dichloroethene	ug/L	50	50.1	100	75-132	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.0	102	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.2	98	70-130	
1,2-Dichloroethane	ug/L	50	54.9	110	73-134	
1,2-Dichloropropane	ug/L	50	50.6	101	79-128	
1,3-Dichlorobenzene	ug/L	50	49.3	99	70-130	
1,4-Dichlorobenzene	ug/L	50	49.6	99	70-130	
Benzene	ug/L	50	52.1	104	69-137	
Bromodichloromethane	ug/L	50	49.4	99	70-130	
Bromoform	ug/L	50	42.6	85	64-133	
Bromomethane	ug/L	50	47.8	96	29-123	
Carbon tetrachloride	ug/L	50	51.3	103	73-142	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

LABORATORY CONTROL SAMPLE: 1835284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	49.7	99	70-130	
Chloroethane	ug/L	50	49.5	99	59-133	
Chloroform	ug/L	50	52.1	104	80-129	
Chloromethane	ug/L	50	32.8	66	27-125	
cis-1,2-Dichloroethene	ug/L	50	51.7	103	70-134	
cis-1,3-Dichloropropene	ug/L	50	48.7	97	70-130	
Dibromochloromethane	ug/L	50	48.6	97	70-130	
Dichlorodifluoromethane	ug/L	50	28.6	57	12-127	
Ethylbenzene	ug/L	50	51.5	103	86-127	
Isopropylbenzene (Cumene)	ug/L	50	51.2	102	70-130	
m&p-Xylene	ug/L	100	102	102	70-131	
Methyl-tert-butyl ether	ug/L	50	51.2	102	65-136	
Methylene Chloride	ug/L	50	50.8	102	72-133	
o-Xylene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	49.5	99	70-130	
Tetrachloroethene	ug/L	50	47.8	96	70-130	
Toluene	ug/L	50	50.5	101	84-124	
trans-1,2-Dichloroethene	ug/L	50	52.0	104	70-133	
trans-1,3-Dichloropropene	ug/L	50	49.2	98	67-130	
Trichloroethene	ug/L	50	50.7	101	70-130	
Trichlorofluoromethane	ug/L	50	52.0	104	69-147	
Vinyl chloride	ug/L	50	41.9	84	48-134	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1835848 1835849

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40184186001 Result	Spike Conc.	Spike Conc.	MS Result								
1,1,1-Trichloroethane	ug/L	<1.0	50	50	51.8	52.1	104	104	70-136	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.7	51.0	101	102	67-133	0	20		
1,1,2-Trichloroethane	ug/L	<5.0	50	50	51.2	51.2	102	102	70-130	0	20		
1,1-Dichloroethane	ug/L	<1.0	50	50	54.7	55.0	109	110	70-139	0	20		
1,1-Dichloroethene	ug/L	<1.0	50	50	14.9	13.0	30	26	72-137	14	20	M1	
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	47.0	48.0	94	96	68-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<5.9	50	50	52.0	53.1	104	106	60-130	2	21		
1,2-Dibromoethane (EDB)	ug/L	<2.8	50	50	49.2	48.8	98	98	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<2.4	50	50	49.3	49.4	99	99	70-130	0	20		
1,2-Dichloroethane	ug/L	<1.0	50	50	54.7	54.9	109	110	71-137	0	20		
1,2-Dichloropropane	ug/L	<1.0	50	50	49.7	50.0	99	100	78-130	1	20		
1,3-Dichlorobenzene	ug/L	<2.1	50	50	48.6	49.0	97	98	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<3.1	50	50	49.1	49.3	98	98	70-130	0	20		
Benzene	ug/L	<1.0	50	50	51.0	51.2	102	102	66-143	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40184122

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1835848		1835849		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40184186001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Bromodichloromethane	ug/L	4.6	50	50	54.3	54.8	99	100	70-130	1	20		
Bromoform	ug/L	<13.2	50	50	41.5	41.7	83	83	64-134	0	20		
Bromomethane	ug/L	<5.0	50	50	50.4	52.5	101	105	29-136	4	25		
Carbon tetrachloride	ug/L	<1.0	50	50	51.2	51.6	102	103	73-142	1	20		
Chlorobenzene	ug/L	<2.4	50	50	50.0	50.0	100	100	70-130	0	20		
Chloroethane	ug/L	<5.0	50	50	47.0	48.2	94	96	58-138	3	20		
Chloroform	ug/L	10.2	50	50	62.0	62.4	104	104	80-131	1	20		
Chloromethane	ug/L	<7.3	50	50	31.2	31.5	62	63	24-125	1	20		
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	51.4	51.6	103	103	68-137	0	22		
cis-1,3-Dichloropropene	ug/L	<12.1	50	50	12.2	10.3J	24	21	70-130		20	M1	
Dibromochloromethane	ug/L	<8.7	50	50	49.3	49.6	97	97	70-131	1	20		
Dichlorodifluoromethane	ug/L	<5.0	50	50	28.2	28.9	56	58	10-127	3	20		
Ethylbenzene	ug/L	<1.0	50	50	3.3	2.2	7	4	81-136	38	20	M1, R1	
Isopropylbenzene (Cumene)	ug/L	<5.0	50	50	7.0	5.3	14	11	70-132	28	20	M1, R1	
m&p-Xylene	ug/L	<2.0	100	100	<0.47	<0.47	0	0	70-135		20	M1	
Methyl-tert-butyl ether	ug/L	<4.2	50	50	50.4	50.2	101	100	58-142	0	23		
Methylene Chloride	ug/L	<5.0	50	50	50.7	50.8	101	102	69-137	0	20		
o-Xylene	ug/L	<1.0	50	50	<0.26	<0.26	0	0	70-132		20	M1	
Styrene	ug/L	<1.6	50	50	<0.47	<0.47	0	0	70-130		20	M1	
Tetrachloroethene	ug/L	<1.1	50	50	46.8	46.4	94	93	70-132	1	20		
Toluene	ug/L	<5.0	50	50	1.7J	1.1J	3	2	81-130		20	M1	
trans-1,2-Dichloroethene	ug/L	<3.6	50	50	50.8	50.8	102	102	70-136	0	20		
trans-1,3-Dichloropropene	ug/L	<14.6	50	50	13.3J	11.1J	27	22	67-130		20	M1	
Trichloroethene	ug/L	<1.0	50	50	51.3	51.7	103	103	70-131	1	20		
Trichlorofluoromethane	ug/L	<1.0	50	50	49.5	50.2	99	100	66-150	2	20		
Vinyl chloride	ug/L	<1.0	50	50	<0.17	<0.17	0	0	46-134		20	M1	
4-Bromofluorobenzene (S)	%						100	99	70-130				
Dibromofluoromethane (S)	%						106	106	70-130				
Toluene-d8 (S)	%						101	101	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

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

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 47358.003 KOELLER ONE

Pace Project No.: 40184122

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40184122001	MW-1	EPA 8260	315456		
40184122002	MW-1 DUP	EPA 8260	315456		
40184122003	MW-2	EPA 8260	315456		
40184122004	MW-3	EPA 8260	315456		
40184122005	MW-4	EPA 8260	315456		
40184122006	MW-6	EPA 8260	315456		
40184122007	TRIP BLANK	EPA 8260	315456		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.: F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40184122



40184122

Client Name: Gannett Fleming

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

Tracking #: 7859 9089 1887

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: N/A 3/13/19 PG Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 / Corr: _____

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

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

Person examining contents:

Date: 3/13/19
Initials: PG

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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input 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>416</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review:

Ran for PM

Date: 07/13/19

The laboratory report and
QA/QC data were reviewed
and approved by AWM on
09/27/19

September 24, 2019

Tony Miller
Gannett Fleming
8040 Excelsior Drive, Ste 303
Madison, WI 53717

RE: Project: 47358.003 KOELLER ONE
Pace Project No.: 40195482

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chelsea Payne, Gannett Fleming Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40195482001	MW-1	Water	09/18/19 14:25	09/19/19 08:40
40195482002	MW-2	Water	09/18/19 11:20	09/19/19 08:40
40195482003	MW-3	Water	09/18/19 14:45	09/19/19 08:40
40195482004	MW-4	Water	09/18/19 14:00	09/19/19 08:40
40195482005	MW-5	Water	09/18/19 12:00	09/19/19 08:40
40195482006	MW-6	Water	09/18/19 09:20	09/19/19 08:40
40195482007	MW-7	Water	09/18/19 13:00	09/19/19 08:40
40195482008	MW-7 DUP	Water	09/18/19 13:00	09/19/19 08:40
40195482009	TRIP BLANK	Water	09/18/19 13:00	09/19/19 08:40

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SAMPLE ANALYTE COUNT

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40195482001	MW-1	EPA 8260	SMT	63
40195482002	MW-2	EPA 8260	SMT	63
40195482003	MW-3	EPA 8260	SMT	63
40195482004	MW-4	EPA 8260	SMT	63
40195482005	MW-5	EPA 8260	SMT	63
40195482006	MW-6	EPA 8260	SMT	63
40195482007	MW-7	EPA 8260	SMT	63
40195482008	MW-7 DUP	EPA 8260	SMT	63
40195482009	TRIP BLANK	EPA 8260	SMT	63

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40195482001	MW-1					
EPA 8260	Tetrachloroethene	192	ug/L	2.7	09/24/19 00:55	
40195482002	MW-2					
EPA 8260	Tetrachloroethene	2.6	ug/L	1.1	09/23/19 20:40	
40195482003	MW-3					
EPA 8260	Tetrachloroethene	81.4	ug/L	1.1	09/23/19 21:00	
EPA 8260	Trichloroethene	1.1	ug/L	1.0	09/23/19 21:00	
40195482004	MW-4					
EPA 8260	Tetrachloroethene	1.5	ug/L	1.1	09/23/19 19:22	
40195482005	MW-5					
EPA 8260	Toluene	0.26J	ug/L	5.0	09/23/19 20:21	
40195482006	MW-6					
EPA 8260	Tetrachloroethene	4.8	ug/L	1.1	09/23/19 21:19	
40195482007	MW-7					
EPA 8260	Tetrachloroethene	0.68J	ug/L	1.1	09/23/19 19:42	
40195482008	MW-7 DUP					
EPA 8260	Chloromethane	2.5J	ug/L	7.3	09/23/19 20:01	
EPA 8260	Tetrachloroethene	0.50J	ug/L	1.1	09/23/19 20:01	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-1 **Lab ID: 40195482001** Collected: 09/18/19 14:25 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		09/24/19 00:55	630-20-6	
1,1,1-Trichloroethane	<0.61	ug/L	2.5	0.61	2.5		09/24/19 00:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		09/24/19 00:55	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		09/24/19 00:55	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		09/24/19 00:55	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		09/24/19 00:55	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		09/24/19 00:55	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		09/24/19 00:55	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		09/24/19 00:55	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		09/24/19 00:55	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		09/24/19 00:55	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		09/24/19 00:55	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		09/24/19 00:55	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		09/24/19 00:55	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		09/24/19 00:55	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		09/24/19 00:55	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		09/24/19 00:55	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		09/24/19 00:55	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		09/24/19 00:55	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		09/24/19 00:55	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		09/24/19 00:55	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		09/24/19 00:55	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		09/24/19 00:55	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		09/24/19 00:55	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		09/24/19 00:55	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		09/24/19 00:55	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		09/24/19 00:55	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		09/24/19 00:55	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		09/24/19 00:55	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		09/24/19 00:55	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		09/24/19 00:55	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		09/24/19 00:55	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		09/24/19 00:55	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		09/24/19 00:55	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		09/24/19 00:55	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		09/24/19 00:55	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		09/24/19 00:55	75-71-8	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		09/24/19 00:55	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		09/24/19 00:55	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		09/24/19 00:55	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		09/24/19 00:55	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		09/24/19 00:55	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		09/24/19 00:55	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		09/24/19 00:55	100-42-5	
Tetrachloroethene	192	ug/L	2.7	0.82	2.5		09/24/19 00:55	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		09/24/19 00:55	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-1 **Lab ID: 40195482001** Collected: 09/18/19 14:25 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.64	ug/L	2.5	0.64	2.5		09/24/19 00:55	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		09/24/19 00:55	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		09/24/19 00:55	75-01-4	
cis-1,2-Dichloroethene	<0.68	ug/L	2.5	0.68	2.5		09/24/19 00:55	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		09/24/19 00:55	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		09/24/19 00:55	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		09/24/19 00:55	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		09/24/19 00:55	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		09/24/19 00:55	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		09/24/19 00:55	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		09/24/19 00:55	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		09/24/19 00:55	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		09/24/19 00:55	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		09/24/19 00:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2.5		09/24/19 00:55	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		2.5		09/24/19 00:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2.5		09/24/19 00:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-2 **Lab ID: 40195482002** Collected: 09/18/19 11:20 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 20:40	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 20:40	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:40	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 20:40	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 20:40	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 20:40	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 20:40	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 20:40	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 20:40	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 20:40	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 20:40	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 20:40	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 20:40	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:40	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:40	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:40	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 20:40	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 20:40	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 20:40	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 20:40	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 20:40	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 20:40	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 20:40	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 20:40	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 20:40	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 20:40	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 20:40	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 20:40	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 20:40	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 20:40	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:40	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 20:40	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 20:40	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 20:40	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 20:40	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 20:40	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 20:40	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 20:40	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 20:40	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 20:40	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 20:40	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 20:40	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 20:40	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 20:40	100-42-5	
Tetrachloroethene	2.6	ug/L	1.1	0.33	1		09/23/19 20:40	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 20:40	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-2 **Lab ID: 40195482002** Collected: 09/18/19 11:20 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 20:40	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 20:40	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 20:40	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 20:40	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 20:40	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 20:40	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:40	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 20:40	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 20:40	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 20:40	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 20:40	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 20:40	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 20:40	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 20:40	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		09/23/19 20:40	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		09/23/19 20:40	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/23/19 20:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-3 **Lab ID: 40195482003** Collected: 09/18/19 14:45 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 21:00	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 21:00	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 21:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 21:00	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 21:00	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 21:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 21:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 21:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 21:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 21:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 21:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 21:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 21:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 21:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 21:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 21:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 21:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 21:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 21:00	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 21:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 21:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 21:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 21:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 21:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 21:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 21:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 21:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 21:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 21:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 21:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 21:00	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 21:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 21:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 21:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 21:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 21:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 21:00	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 21:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 21:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 21:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 21:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 21:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 21:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 21:00	100-42-5	
Tetrachloroethene	81.4	ug/L	1.1	0.33	1		09/23/19 21:00	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 21:00	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-3 **Lab ID: 40195482003** Collected: 09/18/19 14:45 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	1.1	ug/L	1.0	0.26	1		09/23/19 21:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 21:00	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 21:00	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 21:00	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 21:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 21:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 21:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 21:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 21:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 21:00	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 21:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 21:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 21:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 21:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/23/19 21:00	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		09/23/19 21:00	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/23/19 21:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-4 **Lab ID: 40195482004** Collected: 09/18/19 14:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 19:22	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 19:22	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:22	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 19:22	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 19:22	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 19:22	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 19:22	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 19:22	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 19:22	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 19:22	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 19:22	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 19:22	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 19:22	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:22	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:22	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:22	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 19:22	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 19:22	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 19:22	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 19:22	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 19:22	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 19:22	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 19:22	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 19:22	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 19:22	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 19:22	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 19:22	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 19:22	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 19:22	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 19:22	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:22	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 19:22	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 19:22	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 19:22	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 19:22	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 19:22	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 19:22	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 19:22	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 19:22	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 19:22	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 19:22	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 19:22	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 19:22	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 19:22	100-42-5	
Tetrachloroethene	1.5	ug/L	1.1	0.33	1		09/23/19 19:22	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 19:22	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-4 **Lab ID: 40195482004** Collected: 09/18/19 14:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 19:22	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 19:22	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 19:22	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 19:22	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 19:22	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 19:22	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:22	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 19:22	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 19:22	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 19:22	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 19:22	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 19:22	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 19:22	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 19:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/23/19 19:22	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		09/23/19 19:22	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/23/19 19:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-5 **Lab ID: 40195482005** Collected: 09/18/19 12:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 20:21	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 20:21	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:21	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 20:21	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 20:21	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 20:21	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 20:21	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 20:21	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 20:21	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 20:21	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 20:21	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 20:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 20:21	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:21	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:21	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:21	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 20:21	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 20:21	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 20:21	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 20:21	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 20:21	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 20:21	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 20:21	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 20:21	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 20:21	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 20:21	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 20:21	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 20:21	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 20:21	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 20:21	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:21	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 20:21	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 20:21	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 20:21	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 20:21	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 20:21	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 20:21	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 20:21	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 20:21	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 20:21	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 20:21	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 20:21	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 20:21	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 20:21	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/23/19 20:21	127-18-4	
Toluene	0.26J	ug/L	5.0	0.17	1		09/23/19 20:21	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-5 **Lab ID: 40195482005** Collected: 09/18/19 12:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 20:21	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 20:21	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 20:21	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 20:21	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 20:21	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 20:21	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:21	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 20:21	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 20:21	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 20:21	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 20:21	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 20:21	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 20:21	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 20:21	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/23/19 20:21	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		09/23/19 20:21	1868-53-7	HS
Toluene-d8 (S)	99	%	70-130		1		09/23/19 20:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-6 **Lab ID: 40195482006** Collected: 09/18/19 09:20 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 21:19	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 21:19	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 21:19	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 21:19	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 21:19	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 21:19	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 21:19	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 21:19	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 21:19	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 21:19	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 21:19	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 21:19	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 21:19	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 21:19	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 21:19	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 21:19	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 21:19	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 21:19	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 21:19	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 21:19	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 21:19	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 21:19	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 21:19	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 21:19	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 21:19	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 21:19	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 21:19	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 21:19	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 21:19	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 21:19	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 21:19	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 21:19	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 21:19	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 21:19	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 21:19	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 21:19	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 21:19	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 21:19	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 21:19	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 21:19	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 21:19	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 21:19	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 21:19	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 21:19	100-42-5	
Tetrachloroethene	4.8	ug/L	1.1	0.33	1		09/23/19 21:19	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 21:19	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-6 **Lab ID: 40195482006** Collected: 09/18/19 09:20 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 21:19	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 21:19	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 21:19	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 21:19	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 21:19	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 21:19	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 21:19	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 21:19	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 21:19	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 21:19	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 21:19	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 21:19	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 21:19	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 21:19	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		09/23/19 21:19	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		09/23/19 21:19	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/23/19 21:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-7 **Lab ID: 40195482007** Collected: 09/18/19 13:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 19:42	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 19:42	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:42	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 19:42	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 19:42	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 19:42	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 19:42	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 19:42	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 19:42	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 19:42	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 19:42	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 19:42	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 19:42	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:42	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:42	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:42	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 19:42	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 19:42	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 19:42	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 19:42	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 19:42	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 19:42	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 19:42	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 19:42	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 19:42	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 19:42	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 19:42	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 19:42	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 19:42	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 19:42	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:42	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 19:42	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 19:42	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 19:42	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 19:42	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 19:42	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 19:42	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 19:42	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 19:42	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 19:42	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 19:42	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 19:42	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 19:42	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 19:42	100-42-5	
Tetrachloroethene	0.68J	ug/L	1.1	0.33	1		09/23/19 19:42	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 19:42	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-7 **Lab ID: 40195482007** Collected: 09/18/19 13:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 19:42	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 19:42	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 19:42	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 19:42	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 19:42	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 19:42	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:42	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 19:42	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 19:42	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 19:42	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 19:42	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 19:42	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 19:42	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 19:42	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/23/19 19:42	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		09/23/19 19:42	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/23/19 19:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-7 DUP **Lab ID: 40195482008** Collected: 09/18/19 13:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 20:01	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 20:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:01	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 20:01	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 20:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 20:01	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 20:01	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 20:01	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 20:01	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 20:01	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 20:01	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 20:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 20:01	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:01	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:01	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 20:01	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 20:01	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 20:01	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 20:01	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 20:01	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 20:01	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 20:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 20:01	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 20:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 20:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 20:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 20:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 20:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 20:01	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 20:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 20:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 20:01	67-66-3	
Chloromethane	2.5J	ug/L	7.3	2.2	1		09/23/19 20:01	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 20:01	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 20:01	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 20:01	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 20:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 20:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 20:01	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 20:01	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 20:01	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 20:01	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 20:01	100-42-5	
Tetrachloroethene	0.50J	ug/L	1.1	0.33	1		09/23/19 20:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 20:01	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: MW-7 DUP **Lab ID: 40195482008** Collected: 09/18/19 13:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 20:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 20:01	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 20:01	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 20:01	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 20:01	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 20:01	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 20:01	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 20:01	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 20:01	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 20:01	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 20:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 20:01	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 20:01	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 20:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/23/19 20:01	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		09/23/19 20:01	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		09/23/19 20:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: TRIP BLANK **Lab ID: 40195482009** Collected: 09/18/19 13:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 19:03	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/23/19 19:03	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:03	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 19:03	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 19:03	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 19:03	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 19:03	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 19:03	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 19:03	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 19:03	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 19:03	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 19:03	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 19:03	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:03	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:03	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 19:03	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 19:03	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 19:03	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 19:03	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 19:03	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 19:03	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 19:03	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 19:03	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 19:03	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 19:03	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 19:03	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 19:03	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 19:03	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 19:03	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 19:03	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:03	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 19:03	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 19:03	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 19:03	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 19:03	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 19:03	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 19:03	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 19:03	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 19:03	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 19:03	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 19:03	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 19:03	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 19:03	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 19:03	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/23/19 19:03	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 19:03	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Sample: TRIP BLANK **Lab ID: 40195482009** Collected: 09/18/19 13:00 Received: 09/19/19 08:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 19:03	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 19:03	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 19:03	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 19:03	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 19:03	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 19:03	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 19:03	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 19:03	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 19:03	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 19:03	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 19:03	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 19:03	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 19:03	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 19:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		09/23/19 19:03	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		09/23/19 19:03	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/23/19 19:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40195482

QC Batch: 334702 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40195482001, 40195482002, 40195482003, 40195482004, 40195482005, 40195482006, 40195482007, 40195482008, 40195482009

METHOD BLANK: 1943320 Matrix: Water
Associated Lab Samples: 40195482001, 40195482002, 40195482003, 40195482004, 40195482005, 40195482006, 40195482007, 40195482008, 40195482009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	09/23/19 17:05	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	09/23/19 17:05	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	09/23/19 17:05	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	09/23/19 17:05	
1,1-Dichloroethane	ug/L	<0.27	1.0	09/23/19 17:05	
1,1-Dichloroethene	ug/L	<0.24	1.0	09/23/19 17:05	
1,1-Dichloropropene	ug/L	<0.54	1.8	09/23/19 17:05	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	09/23/19 17:05	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	09/23/19 17:05	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/23/19 17:05	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/23/19 17:05	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	09/23/19 17:05	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	09/23/19 17:05	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	09/23/19 17:05	
1,2-Dichloroethane	ug/L	<0.28	1.0	09/23/19 17:05	
1,2-Dichloropropane	ug/L	<0.28	1.0	09/23/19 17:05	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/23/19 17:05	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	09/23/19 17:05	
1,3-Dichloropropane	ug/L	<0.83	2.8	09/23/19 17:05	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	09/23/19 17:05	
2,2-Dichloropropane	ug/L	<2.3	7.6	09/23/19 17:05	
2-Chlorotoluene	ug/L	<0.93	5.0	09/23/19 17:05	
4-Chlorotoluene	ug/L	<0.76	2.5	09/23/19 17:05	
Benzene	ug/L	<0.25	1.0	09/23/19 17:05	
Bromobenzene	ug/L	<0.24	1.0	09/23/19 17:05	
Bromochloromethane	ug/L	<0.36	5.0	09/23/19 17:05	
Bromodichloromethane	ug/L	<0.36	1.2	09/23/19 17:05	
Bromoform	ug/L	<4.0	13.2	09/23/19 17:05	
Bromomethane	ug/L	<0.97	5.0	09/23/19 17:05	
Carbon tetrachloride	ug/L	<0.17	1.0	09/23/19 17:05	
Chlorobenzene	ug/L	<0.71	2.4	09/23/19 17:05	
Chloroethane	ug/L	<1.3	5.0	09/23/19 17:05	
Chloroform	ug/L	<1.3	5.0	09/23/19 17:05	
Chloromethane	ug/L	<2.2	7.3	09/23/19 17:05	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	09/23/19 17:05	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	09/23/19 17:05	
Dibromochloromethane	ug/L	<2.6	8.7	09/23/19 17:05	
Dibromomethane	ug/L	<0.94	3.1	09/23/19 17:05	
Dichlorodifluoromethane	ug/L	<0.50	5.0	09/23/19 17:05	
Ethylbenzene	ug/L	<0.22	1.0	09/23/19 17:05	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

METHOD BLANK: 1943320

Matrix: Water

Associated Lab Samples: 40195482001, 40195482002, 40195482003, 40195482004, 40195482005, 40195482006, 40195482007, 40195482008, 40195482009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	09/23/19 17:05	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	09/23/19 17:05	
m&p-Xylene	ug/L	<0.47	2.0	09/23/19 17:05	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/23/19 17:05	
Methylene Chloride	ug/L	<0.58	5.0	09/23/19 17:05	
n-Butylbenzene	ug/L	<0.71	2.4	09/23/19 17:05	
n-Propylbenzene	ug/L	<0.81	5.0	09/23/19 17:05	
Naphthalene	ug/L	<1.2	5.0	09/23/19 17:05	
o-Xylene	ug/L	<0.26	1.0	09/23/19 17:05	
p-Isopropyltoluene	ug/L	<0.80	2.7	09/23/19 17:05	
sec-Butylbenzene	ug/L	<0.85	5.0	09/23/19 17:05	
Styrene	ug/L	<0.47	1.6	09/23/19 17:05	
tert-Butylbenzene	ug/L	<0.30	1.0	09/23/19 17:05	
Tetrachloroethene	ug/L	<0.33	1.1	09/23/19 17:05	
Toluene	ug/L	<0.17	5.0	09/23/19 17:05	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	09/23/19 17:05	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	09/23/19 17:05	
Trichloroethene	ug/L	<0.26	1.0	09/23/19 17:05	
Trichlorofluoromethane	ug/L	<0.21	1.0	09/23/19 17:05	
Vinyl chloride	ug/L	<0.17	1.0	09/23/19 17:05	
4-Bromofluorobenzene (S)	%	96	70-130	09/23/19 17:05	
Dibromofluoromethane (S)	%	104	70-130	09/23/19 17:05	
Toluene-d8 (S)	%	99	70-130	09/23/19 17:05	

LABORATORY CONTROL SAMPLE: 1943321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.6	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	50.9	102	70-130	
1,1,2-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	59.5	119	73-150	
1,1-Dichloroethene	ug/L	50	51.5	103	73-138	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.7	99	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	51.3	103	70-130	
1,2-Dichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dichloroethane	ug/L	50	52.9	106	75-140	
1,2-Dichloropropane	ug/L	50	51.7	103	73-135	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	49.2	98	70-130	
Benzene	ug/L	50	54.2	108	70-130	
Bromodichloromethane	ug/L	50	48.1	96	70-130	
Bromoform	ug/L	50	43.4	87	68-129	

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

LABORATORY CONTROL SAMPLE: 1943321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	27.5	55	18-159	
Carbon tetrachloride	ug/L	50	53.2	106	70-130	
Chlorobenzene	ug/L	50	52.7	105	70-130	
Chloroethane	ug/L	50	41.7	83	53-147	
Chloroform	ug/L	50	52.4	105	74-136	
Chloromethane	ug/L	50	34.9	70	29-115	
cis-1,2-Dichloroethene	ug/L	50	52.0	104	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.1	90	70-130	
Dibromochloromethane	ug/L	50	48.0	96	70-130	
Dichlorodifluoromethane	ug/L	50	35.0	70	10-130	
Ethylbenzene	ug/L	50	52.4	105	80-124	
Isopropylbenzene (Cumene)	ug/L	50	53.3	107	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	52.4	105	54-137	
Methylene Chloride	ug/L	50	55.2	110	73-138	
o-Xylene	ug/L	50	52.7	105	70-130	
Styrene	ug/L	50	48.7	97	70-130	
Tetrachloroethene	ug/L	50	54.4	109	70-130	
Toluene	ug/L	50	52.1	104	80-126	
trans-1,2-Dichloroethene	ug/L	50	57.5	115	73-145	
trans-1,3-Dichloropropene	ug/L	50	45.5	91	70-130	
Trichloroethene	ug/L	50	53.5	107	70-130	
Trichlorofluoromethane	ug/L	50	43.3	87	76-147	
Vinyl chloride	ug/L	50	40.1	80	51-120	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1943574 1943576

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40195482004	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	55.3	54.5	111	109	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	52.5	53.6	105	107	70-130	2	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.0	51.2	102	102	70-137	0	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	61.2	61.8	122	124	73-153	1	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	50.0	51.0	100	102	73-138	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	52.3	53.8	105	108	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	52.8	52.7	106	105	58-129	0	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	52.6	52.1	105	104	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.6	51.5	101	103	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	55.6	56.1	111	112	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	52.9	51.5	106	103	71-138	3	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.2	53.2	104	106	70-130	2	20		

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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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Parameter	Units	1943574		1943576		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40195482004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.8	50.8	102	102	70-130	0	20		
Benzene	ug/L	<0.25	50	50	54.9	54.9	110	110	70-130	0	20		
Bromodichloromethane	ug/L	<0.36	50	50	50.0	49.3	100	99	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	45.5	44.4	91	89	68-129	2	20		
Bromomethane	ug/L	<0.97	50	50	31.1	33.1	62	66	15-170	6	20		
Carbon tetrachloride	ug/L	<0.17	50	50	54.1	54.5	108	109	70-130	1	20		
Chlorobenzene	ug/L	<0.71	50	50	53.1	53.1	106	106	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	39.9	40.0	80	80	51-148	0	20		
Chloroform	ug/L	<1.3	50	50	54.2	52.3	108	105	74-136	4	20		
Chloromethane	ug/L	<2.2	50	50	34.1	34.8	67	69	23-115	2	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	54.3	52.0	109	104	70-131	4	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	45.7	45.5	91	91	70-130	0	20		
Dibromochloromethane	ug/L	<2.6	50	50	48.6	47.8	97	96	70-130	2	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.7	28.4	55	57	10-132	3	20		
Ethylbenzene	ug/L	<0.22	50	50	51.7	52.5	103	105	80-125	2	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	53.4	53.2	107	106	70-130	0	20		
m&p-Xylene	ug/L	<0.47	100	100	102	106	102	106	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	53.2	54.6	106	109	51-145	3	20		
Methylene Chloride	ug/L	<0.58	50	50	57.0	55.7	114	111	73-140	2	20		
o-Xylene	ug/L	<0.26	50	50	52.7	51.7	105	103	70-130	2	20		
Styrene	ug/L	<0.47	50	50	48.9	48.3	98	97	70-130	1	20		
Tetrachloroethene	ug/L	1.5	50	50	56.4	57.2	110	111	70-130	1	20		
Toluene	ug/L	<0.17	50	50	52.9	52.8	106	106	80-131	0	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	57.2	57.7	114	115	73-148	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.0	45.6	92	91	70-130	1	20		
Trichloroethene	ug/L	<0.26	50	50	52.9	53.5	106	107	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	43.6	42.8	87	86	74-147	2	20		
Vinyl chloride	ug/L	<0.17	50	50	39.1	38.4	78	77	41-129	2	20		
4-Bromofluorobenzene (S)	%						102	101	70-130				
Dibromofluoromethane (S)	%						101	98	70-130				
Toluene-d8 (S)	%						99	98	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 47358.003 KOELLER ONE

Pace Project No.: 40195482

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40195482001	MW-1	EPA 8260	334702		
40195482002	MW-2	EPA 8260	334702		
40195482003	MW-3	EPA 8260	334702		
40195482004	MW-4	EPA 8260	334702		
40195482005	MW-5	EPA 8260	334702		
40195482006	MW-6	EPA 8260	334702		
40195482007	MW-7	EPA 8260	334702		
40195482008	MW-7 DUP	EPA 8260	334702		
40195482009	TRIP BLANK	EPA 8260	334702		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Anthony Miller
 Phone: 608-836-1500
 Project Number: 47358.003
 Project Name: Koeller One
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): *CP*
 PO #: 47358.003



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40195482

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested																
N	B	VOCs																

Quote #:
 Mail To Contact: Anthony Miller
 Mail To Company: Gannett Fleming
 Mail To Address: 8040 Excelsior Dr. Madison, WI 53717
 Invoice To Contact:
 Invoice To Company: See mail to
 Invoice To Address:
 Invoice To Phone: 608-836-1500
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-1	9/18/19	14:25	GW
002	MW-2		11:20	
003	MW-3		14:45	
004	MW-4		14:00	
005	MW-5		12:00	
006	MW-6		9:20	
007	MW-7		13:00	
008	MW-7 Top		"	
009	Trip Blank			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Relinquished By: *Chelsea Payne* Date/Time: 9/18/19 15:30
 Received By: *[Signature]* Date/Time:
 Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: *Chelsea Payne* Date/Time: 9/19/19 08:10
 Received By: *[Signature]* Date/Time:
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability
 Relinquished By:
 Date/Time:
 Received By:
 Date/Time:
 PACE Project No. 40195482
 Receipt Temp = 22.7 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Order By :	Ship To :	Return To:
Company <u>Gannett Fleming Inc.</u>	Company <u>Gannett Fleming Inc.</u>	Company <u>Pace Analytical Green Bay</u>
Contact <u>Payne, Chelsea</u>	Contact <u>Payne, Chelsea</u>	Contact <u>Milewsky, Dan</u>
Email <u>cpayne@gfnet.com</u>	Email <u>cpayne@gfnet.com</u>	Email <u>dan.milewsky@pacelabs.com</u>
Address <u>8040 Excelsior Drive, Ste 303</u>	Address <u>8040 Excelsior Drive, Ste 303</u>	Address <u>1241 Bellevue Street</u>
Address 2 _____	Address 2 _____	Address 2 <u>Suite 9</u>
City <u>Madison</u>	City <u>Madison</u>	City <u>Green Bay</u>
State <u>WI</u> Zip <u>53717</u>	State <u>WI</u> Zip <u>53717</u>	State <u>WI</u> Zip <u>54302</u>
Phone <u>NONE</u>	Phone <u>NONE</u>	Phone <u>(920)469-2436</u>

Info

Project Name Koeller GW Due Date 08/30/2019 Profile x Quote _____

Project Milewsky, Dan Return _____ Carrier Most Economical Locatio _____

Trip Blanks

Include Trip Blanks

Bottle Labels

Blank
 Pre-Printed No Sample IDs
 Pre-Printed With Sample IDs

Bottles

Boxed Cases
 Individually Wrapped
 Grouped By Sample

Return Shipping Labels

No Shipper
 With Shipper

Misc

Sampling Instructions
 Custody Seal
 Temp. Blanks
 Coolers _____
 Syringes _____

Extra Bubble Wrap
 Short Hold/Rush
 DI Liter(s)
 USDA Regulated Soils

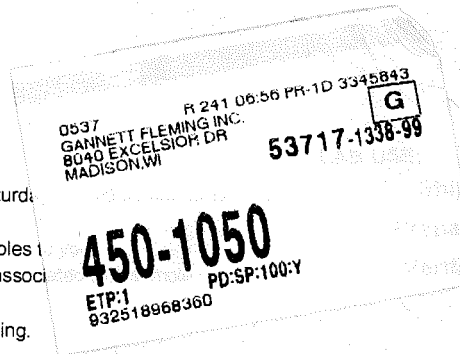
COC Options

Number of Blanks _____
 Pre-Printed _____

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-9-098-01VB	
8	WT	VOC WI List	3-40ml clear vial HCl-hydrochloric acid	24	0	B-9-166-01VB	

Hazard Shipping Placard In Place : NA

- *Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday unless special arrangements are made with your project manager.
- *Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to the shipper.
- *Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with return.
- *Payment term are net 30 days.
- *Please include the proposal number on the chain of custody to insure proper billing.



Date : 08/28/2019

By: Mai Yer Her

By: _____

Sample

CLIENT USE (Optional):

Date Rec'd: _____

Received By: _____

Verified By: _____

40195482

Client Name: Garnett Fleming Project # 40195402

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 ≤	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤	pH after adjusted	Volume (mL)							
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	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

Handwritten signature and date: 9/19/11

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	


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

Sample Condition Upon Receipt Form (SCUR)

Client Name: Gannett Fleming
 Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project #: _____

WO# : 40195482



40195482

Tracking #: 814690267292

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used: SR - N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature: Uncorr: 10.0 / Corr: _____

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

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

Person examining contents:
 Date: 9/19/19
 Initials: [Signature]

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>CC only</u>	<u>9/19/19</u> <u>[Signature]</u>
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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased): <u>427</u>			

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

The laboratory report and
QA/QC data were reviewed
and approved by CJP on 12/19/19

December 18, 2019

Tony Miller
Gannett Fleming
8040 Excelsior Drive, Ste 303
Madison, WI 53717

RE: Project: 47358.003 KOELLER ONE
Pace Project No.: 40200832

Dear Tony Miller:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Chelsea Payne, Gannett Fleming Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

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: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40200832001	MW-1	Water	12/13/19 14:40	12/14/19 09:20
40200832002	MW-2	Water	12/13/19 11:50	12/14/19 09:20
40200832003	MW-3	Water	12/13/19 15:00	12/14/19 09:20
40200832004	MW-3 DUP	Water	12/13/19 15:00	12/14/19 09:20
40200832005	MW-4	Water	12/13/19 14:25	12/14/19 09:20
40200832006	MW-5	Water	12/13/19 13:25	12/14/19 09:20
40200832007	MW-6	Water	12/13/19 12:10	12/14/19 09:20
40200832008	MW-7	Water	12/13/19 10:30	12/14/19 09:20
40200832009	TRIP BLANK	Water	12/13/19 00:00	12/14/19 09:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40200832001	MW-1	EPA 8260	SMT	63
40200832002	MW-2	EPA 8260	SMT	63
40200832003	MW-3	EPA 8260	SMT	63
40200832004	MW-3 DUP	EPA 8260	SMT	63
40200832005	MW-4	EPA 8260	SMT	63
40200832006	MW-5	EPA 8260	SMT	63
40200832007	MW-6	EPA 8260	SMT	63
40200832008	MW-7	EPA 8260	SMT	63
40200832009	TRIP BLANK	EPA 8260	SMT	63

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 47358.003 KOELLER ONE
Pace Project No.: 40200832

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40200832001	MW-1					
EPA 8260	Tetrachloroethene	184	ug/L	2.7	12/17/19 18:44	
40200832002	MW-2					
EPA 8260	Tetrachloroethene	5.1	ug/L	1.1	12/17/19 15:30	
40200832003	MW-3					
EPA 8260	Tetrachloroethene	39.3	ug/L	1.1	12/17/19 15:50	
EPA 8260	Trichloroethene	0.67J	ug/L	1.0	12/17/19 15:50	
40200832004	MW-3 DUP					
EPA 8260	Tetrachloroethene	51.0	ug/L	1.1	12/17/19 16:09	
EPA 8260	Trichloroethene	0.59J	ug/L	1.0	12/17/19 16:09	
40200832005	MW-4					
EPA 8260	Tetrachloroethene	1.5	ug/L	1.1	12/17/19 14:32	
40200832007	MW-6					
EPA 8260	Tetrachloroethene	4.7	ug/L	1.1	12/17/19 16:28	
40200832008	MW-7					
EPA 8260	Tetrachloroethene	0.70J	ug/L	1.1	12/17/19 15:11	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-1 **Lab ID: 40200832001** Collected: 12/13/19 14:40 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		12/17/19 18:44	630-20-6	
1,1,1-Trichloroethane	<0.61	ug/L	2.5	0.61	2.5		12/17/19 18:44	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		12/17/19 18:44	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		12/17/19 18:44	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		12/17/19 18:44	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		12/17/19 18:44	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		12/17/19 18:44	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		12/17/19 18:44	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		12/17/19 18:44	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		12/17/19 18:44	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		12/17/19 18:44	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		12/17/19 18:44	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		12/17/19 18:44	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		12/17/19 18:44	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		12/17/19 18:44	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		12/17/19 18:44	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		12/17/19 18:44	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		12/17/19 18:44	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		12/17/19 18:44	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		12/17/19 18:44	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		12/17/19 18:44	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		12/17/19 18:44	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		12/17/19 18:44	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		12/17/19 18:44	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		12/17/19 18:44	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		12/17/19 18:44	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		12/17/19 18:44	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		12/17/19 18:44	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		12/17/19 18:44	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		12/17/19 18:44	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		12/17/19 18:44	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		12/17/19 18:44	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		12/17/19 18:44	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		12/17/19 18:44	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		12/17/19 18:44	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		12/17/19 18:44	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		12/17/19 18:44	75-71-8	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		12/17/19 18:44	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		12/17/19 18:44	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		12/17/19 18:44	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		12/17/19 18:44	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		12/17/19 18:44	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		12/17/19 18:44	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		12/17/19 18:44	100-42-5	
Tetrachloroethene	184	ug/L	2.7	0.82	2.5		12/17/19 18:44	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		12/17/19 18:44	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-1 **Lab ID: 40200832001** Collected: 12/13/19 14:40 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.64	ug/L	2.5	0.64	2.5		12/17/19 18:44	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		12/17/19 18:44	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		12/17/19 18:44	75-01-4	
cis-1,2-Dichloroethene	<0.68	ug/L	2.5	0.68	2.5		12/17/19 18:44	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		12/17/19 18:44	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		12/17/19 18:44	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		12/17/19 18:44	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		12/17/19 18:44	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		12/17/19 18:44	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		12/17/19 18:44	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		12/17/19 18:44	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		12/17/19 18:44	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		12/17/19 18:44	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		12/17/19 18:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		2.5		12/17/19 18:44	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		2.5		12/17/19 18:44	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2.5		12/17/19 18:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-2 **Lab ID: 40200832002** Collected: 12/13/19 11:50 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 15:30	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 15:30	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:30	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 15:30	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 15:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 15:30	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 15:30	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 15:30	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 15:30	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 15:30	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 15:30	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 15:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 15:30	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:30	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:30	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:30	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 15:30	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 15:30	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 15:30	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 15:30	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 15:30	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 15:30	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 15:30	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 15:30	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 15:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 15:30	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 15:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 15:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 15:30	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 15:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 15:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 15:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 15:30	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 15:30	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 15:30	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 15:30	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 15:30	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 15:30	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 15:30	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 15:30	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 15:30	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 15:30	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 15:30	100-42-5	
Tetrachloroethene	5.1	ug/L	1.1	0.33	1		12/17/19 15:30	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 15:30	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-2 **Lab ID: 40200832002** Collected: 12/13/19 11:50 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/17/19 15:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 15:30	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 15:30	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 15:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 15:30	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 15:30	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:30	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 15:30	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 15:30	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 15:30	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 15:30	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 15:30	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 15:30	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 15:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		12/17/19 15:30	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		12/17/19 15:30	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/17/19 15:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-3 **Lab ID: 40200832003** Collected: 12/13/19 15:00 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 15:50	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 15:50	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:50	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 15:50	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 15:50	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 15:50	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 15:50	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 15:50	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 15:50	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 15:50	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 15:50	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 15:50	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 15:50	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:50	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:50	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:50	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 15:50	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 15:50	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 15:50	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 15:50	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 15:50	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 15:50	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 15:50	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 15:50	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 15:50	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 15:50	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 15:50	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 15:50	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 15:50	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 15:50	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:50	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 15:50	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 15:50	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 15:50	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 15:50	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 15:50	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 15:50	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 15:50	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 15:50	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 15:50	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 15:50	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 15:50	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 15:50	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 15:50	100-42-5	
Tetrachloroethene	39.3	ug/L	1.1	0.33	1		12/17/19 15:50	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 15:50	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-3 **Lab ID: 40200832003** Collected: 12/13/19 15:00 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	0.67J	ug/L	1.0	0.26	1		12/17/19 15:50	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 15:50	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 15:50	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 15:50	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 15:50	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 15:50	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:50	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 15:50	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 15:50	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 15:50	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 15:50	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 15:50	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 15:50	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 15:50	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		12/17/19 15:50	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		12/17/19 15:50	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/17/19 15:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-3 DUP **Lab ID: 40200832004** Collected: 12/13/19 15:00 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 16:09	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 16:09	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 16:09	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 16:09	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 16:09	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 16:09	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 16:09	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 16:09	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 16:09	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 16:09	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 16:09	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 16:09	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 16:09	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 16:09	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 16:09	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 16:09	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 16:09	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 16:09	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 16:09	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 16:09	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 16:09	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 16:09	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 16:09	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 16:09	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 16:09	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 16:09	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 16:09	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 16:09	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 16:09	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 16:09	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 16:09	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 16:09	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 16:09	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 16:09	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 16:09	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 16:09	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 16:09	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 16:09	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 16:09	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 16:09	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 16:09	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 16:09	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 16:09	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 16:09	100-42-5	
Tetrachloroethene	51.0	ug/L	1.1	0.33	1		12/17/19 16:09	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 16:09	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-3 DUP **Lab ID: 40200832004** Collected: 12/13/19 15:00 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	0.59J	ug/L	1.0	0.26	1		12/17/19 16:09	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 16:09	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 16:09	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 16:09	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 16:09	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 16:09	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 16:09	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 16:09	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 16:09	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 16:09	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 16:09	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 16:09	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 16:09	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 16:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		12/17/19 16:09	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		12/17/19 16:09	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/17/19 16:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-4 **Lab ID: 40200832005** Collected: 12/13/19 14:25 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 14:32	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 14:32	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 14:32	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 14:32	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 14:32	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 14:32	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 14:32	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 14:32	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 14:32	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 14:32	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 14:32	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 14:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 14:32	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 14:32	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 14:32	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 14:32	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 14:32	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 14:32	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 14:32	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 14:32	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 14:32	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 14:32	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 14:32	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 14:32	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 14:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 14:32	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 14:32	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 14:32	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 14:32	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 14:32	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 14:32	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 14:32	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 14:32	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 14:32	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 14:32	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 14:32	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 14:32	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 14:32	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 14:32	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 14:32	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 14:32	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 14:32	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 14:32	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 14:32	100-42-5	
Tetrachloroethene	1.5	ug/L	1.1	0.33	1		12/17/19 14:32	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 14:32	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-4 **Lab ID: 40200832005** Collected: 12/13/19 14:25 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/17/19 14:32	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 14:32	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 14:32	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 14:32	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 14:32	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 14:32	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 14:32	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 14:32	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 14:32	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 14:32	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 14:32	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 14:32	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 14:32	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 14:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		12/17/19 14:32	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		12/17/19 14:32	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/17/19 14:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-5 **Lab ID: 40200832006** Collected: 12/13/19 13:25 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 14:51	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 14:51	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 14:51	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 14:51	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 14:51	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 14:51	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 14:51	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 14:51	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 14:51	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 14:51	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 14:51	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 14:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 14:51	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 14:51	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 14:51	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 14:51	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 14:51	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 14:51	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 14:51	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 14:51	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 14:51	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 14:51	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 14:51	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 14:51	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 14:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 14:51	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 14:51	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 14:51	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 14:51	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 14:51	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 14:51	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 14:51	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 14:51	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 14:51	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 14:51	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 14:51	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 14:51	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 14:51	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 14:51	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 14:51	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 14:51	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 14:51	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 14:51	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 14:51	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/17/19 14:51	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 14:51	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-5 **Lab ID: 40200832006** Collected: 12/13/19 13:25 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/17/19 14:51	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 14:51	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 14:51	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 14:51	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 14:51	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 14:51	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 14:51	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 14:51	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 14:51	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 14:51	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 14:51	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 14:51	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 14:51	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 14:51	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		12/17/19 14:51	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		12/17/19 14:51	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/17/19 14:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-6 **Lab ID: 40200832007** Collected: 12/13/19 12:10 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 16:28	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 16:28	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 16:28	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 16:28	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 16:28	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 16:28	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 16:28	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 16:28	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 16:28	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 16:28	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 16:28	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 16:28	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 16:28	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 16:28	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 16:28	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 16:28	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 16:28	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 16:28	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 16:28	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 16:28	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 16:28	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 16:28	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 16:28	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 16:28	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 16:28	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 16:28	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 16:28	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 16:28	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 16:28	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 16:28	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 16:28	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 16:28	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 16:28	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 16:28	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 16:28	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 16:28	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 16:28	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 16:28	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 16:28	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 16:28	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 16:28	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 16:28	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 16:28	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 16:28	100-42-5	
Tetrachloroethene	4.7	ug/L	1.1	0.33	1		12/17/19 16:28	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 16:28	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-6 **Lab ID: 40200832007** Collected: 12/13/19 12:10 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/17/19 16:28	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 16:28	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 16:28	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 16:28	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 16:28	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 16:28	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 16:28	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 16:28	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 16:28	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 16:28	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 16:28	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 16:28	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 16:28	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 16:28	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		12/17/19 16:28	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		12/17/19 16:28	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/17/19 16:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-7 **Lab ID: 40200832008** Collected: 12/13/19 10:30 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 15:11	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 15:11	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:11	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 15:11	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 15:11	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 15:11	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 15:11	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 15:11	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 15:11	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 15:11	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 15:11	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 15:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 15:11	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:11	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:11	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 15:11	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 15:11	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 15:11	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 15:11	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 15:11	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 15:11	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 15:11	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 15:11	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 15:11	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 15:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 15:11	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 15:11	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 15:11	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 15:11	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 15:11	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:11	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 15:11	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 15:11	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 15:11	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 15:11	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 15:11	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 15:11	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 15:11	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 15:11	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 15:11	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 15:11	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 15:11	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 15:11	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 15:11	100-42-5	
Tetrachloroethene	0.70J	ug/L	1.1	0.33	1		12/17/19 15:11	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 15:11	108-88-3	

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: MW-7 **Lab ID: 40200832008** Collected: 12/13/19 10:30 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/17/19 15:11	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 15:11	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 15:11	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 15:11	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 15:11	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 15:11	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 15:11	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 15:11	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 15:11	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 15:11	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 15:11	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 15:11	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 15:11	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 15:11	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		12/17/19 15:11	460-00-4	
Dibromofluoromethane (S)	118	%	70-130		1		12/17/19 15:11	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/17/19 15:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: TRIP BLANK **Lab ID: 40200832009** Collected: 12/13/19 00:00 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 13:53	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/17/19 13:53	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 13:53	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/17/19 13:53	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/17/19 13:53	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/17/19 13:53	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/17/19 13:53	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/17/19 13:53	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/17/19 13:53	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/17/19 13:53	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/17/19 13:53	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/17/19 13:53	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/17/19 13:53	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 13:53	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/17/19 13:53	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/17/19 13:53	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/17/19 13:53	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/17/19 13:53	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/17/19 13:53	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/17/19 13:53	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/17/19 13:53	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/17/19 13:53	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/17/19 13:53	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/17/19 13:53	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/17/19 13:53	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/17/19 13:53	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/17/19 13:53	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/17/19 13:53	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/17/19 13:53	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/17/19 13:53	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 13:53	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/17/19 13:53	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/17/19 13:53	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/17/19 13:53	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/17/19 13:53	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/17/19 13:53	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/17/19 13:53	75-71-8	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/17/19 13:53	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/17/19 13:53	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/17/19 13:53	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/17/19 13:53	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/17/19 13:53	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/17/19 13:53	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/17/19 13:53	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/17/19 13:53	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/17/19 13:53	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Sample: TRIP BLANK **Lab ID: 40200832009** Collected: 12/13/19 00:00 Received: 12/14/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/17/19 13:53	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/17/19 13:53	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/17/19 13:53	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/17/19 13:53	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/17/19 13:53	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/17/19 13:53	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/17/19 13:53	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/17/19 13:53	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/17/19 13:53	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/17/19 13:53	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/17/19 13:53	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/17/19 13:53	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/17/19 13:53	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/17/19 13:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		12/17/19 13:53	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		12/17/19 13:53	1868-53-7	HS
Toluene-d8 (S)	104	%	70-130		1		12/17/19 13:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE
Pace Project No.: 40200832

QC Batch: 343611 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40200832001, 40200832002, 40200832003, 40200832004, 40200832005, 40200832006, 40200832007, 40200832008, 40200832009

METHOD BLANK: 1994900 Matrix: Water
Associated Lab Samples: 40200832001, 40200832002, 40200832003, 40200832004, 40200832005, 40200832006, 40200832007, 40200832008, 40200832009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/17/19 10:57	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/17/19 10:57	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/17/19 10:57	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/17/19 10:57	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/17/19 10:57	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/17/19 10:57	
1,1-Dichloropropene	ug/L	<0.54	1.8	12/17/19 10:57	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	12/17/19 10:57	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	12/17/19 10:57	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/17/19 10:57	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/17/19 10:57	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	12/17/19 10:57	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	12/17/19 10:57	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/17/19 10:57	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/17/19 10:57	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/17/19 10:57	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/17/19 10:57	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/17/19 10:57	
1,3-Dichloropropane	ug/L	<0.83	2.8	12/17/19 10:57	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/17/19 10:57	
2,2-Dichloropropane	ug/L	<2.3	7.6	12/17/19 10:57	
2-Chlorotoluene	ug/L	<0.93	5.0	12/17/19 10:57	
4-Chlorotoluene	ug/L	<0.76	2.5	12/17/19 10:57	
Benzene	ug/L	<0.25	1.0	12/17/19 10:57	
Bromobenzene	ug/L	<0.24	1.0	12/17/19 10:57	
Bromochloromethane	ug/L	<0.36	5.0	12/17/19 10:57	
Bromodichloromethane	ug/L	<0.36	1.2	12/17/19 10:57	
Bromoform	ug/L	<4.0	13.2	12/17/19 10:57	
Bromomethane	ug/L	<0.97	5.0	12/17/19 10:57	
Carbon tetrachloride	ug/L	<0.17	1.0	12/17/19 10:57	
Chlorobenzene	ug/L	<0.71	2.4	12/17/19 10:57	
Chloroethane	ug/L	<1.3	5.0	12/17/19 10:57	
Chloroform	ug/L	<1.3	5.0	12/17/19 10:57	
Chloromethane	ug/L	<2.2	7.3	12/17/19 10:57	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/17/19 10:57	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	12/17/19 10:57	
Dibromochloromethane	ug/L	<2.6	8.7	12/17/19 10:57	
Dibromomethane	ug/L	<0.94	3.1	12/17/19 10:57	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/17/19 10:57	
Ethylbenzene	ug/L	<0.22	1.0	12/17/19 10:57	

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

METHOD BLANK: 1994900

Matrix: Water

Associated Lab Samples: 40200832001, 40200832002, 40200832003, 40200832004, 40200832005, 40200832006, 40200832007, 40200832008, 40200832009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	12/17/19 10:57	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	12/17/19 10:57	
m&p-Xylene	ug/L	<0.47	2.0	12/17/19 10:57	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/17/19 10:57	
Methylene Chloride	ug/L	<0.58	5.0	12/17/19 10:57	
n-Butylbenzene	ug/L	<0.71	2.4	12/17/19 10:57	
n-Propylbenzene	ug/L	<0.81	5.0	12/17/19 10:57	
Naphthalene	ug/L	<1.2	5.0	12/17/19 10:57	
o-Xylene	ug/L	<0.26	1.0	12/17/19 10:57	
p-Isopropyltoluene	ug/L	<0.80	2.7	12/17/19 10:57	
sec-Butylbenzene	ug/L	<0.85	5.0	12/17/19 10:57	
Styrene	ug/L	<0.47	1.6	12/17/19 10:57	
tert-Butylbenzene	ug/L	<0.30	1.0	12/17/19 10:57	
Tetrachloroethene	ug/L	<0.33	1.1	12/17/19 10:57	
Toluene	ug/L	<0.17	5.0	12/17/19 10:57	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	12/17/19 10:57	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	12/17/19 10:57	
Trichloroethene	ug/L	<0.26	1.0	12/17/19 10:57	
Trichlorofluoromethane	ug/L	<0.21	1.0	12/17/19 10:57	
Vinyl chloride	ug/L	<0.17	1.0	12/17/19 10:57	
4-Bromofluorobenzene (S)	%	93	70-130	12/17/19 10:57	
Dibromofluoromethane (S)	%	100	70-130	12/17/19 10:57	
Toluene-d8 (S)	%	100	70-130	12/17/19 10:57	

LABORATORY CONTROL SAMPLE: 1994901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.7	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	59.2	118	70-130	
1,1,2-Trichloroethane	ug/L	50	59.2	118	70-130	
1,1-Dichloroethane	ug/L	50	63.7	127	73-150	
1,1-Dichloroethene	ug/L	50	59.3	119	73-138	
1,2,4-Trichlorobenzene	ug/L	50	41.9	84	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.1	102	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	55.2	110	70-130	
1,2-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dichloroethane	ug/L	50	62.9	126	75-140	
1,2-Dichloropropane	ug/L	50	59.0	118	73-135	
1,3-Dichlorobenzene	ug/L	50	50.9	102	70-130	
1,4-Dichlorobenzene	ug/L	50	52.0	104	70-130	
Benzene	ug/L	50	61.1	122	70-130	
Bromodichloromethane	ug/L	50	55.7	111	70-130	
Bromoform	ug/L	50	42.9	86	68-129	

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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

LABORATORY CONTROL SAMPLE: 1994901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	48.7	97	18-159	
Carbon tetrachloride	ug/L	50	57.1	114	70-130	
Chlorobenzene	ug/L	50	58.0	116	70-130	
Chloroethane	ug/L	50	64.4	129	53-147	
Chloroform	ug/L	50	61.0	122	74-136	
Chloromethane	ug/L	50	47.6	95	29-115	
cis-1,2-Dichloroethene	ug/L	50	60.6	121	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	70-130	
Dibromochloromethane	ug/L	50	48.4	97	70-130	
Dichlorodifluoromethane	ug/L	50	35.5	71	10-130	
Ethylbenzene	ug/L	50	58.6	117	80-124	
Isopropylbenzene (Cumene)	ug/L	50	55.6	111	70-130	
m&p-Xylene	ug/L	100	116	116	70-130	
Methyl-tert-butyl ether	ug/L	50	49.8	100	54-137	
Methylene Chloride	ug/L	50	59.0	118	73-138	
o-Xylene	ug/L	50	58.5	117	70-130	
Styrene	ug/L	50	59.5	119	70-130	
Tetrachloroethene	ug/L	50	51.7	103	70-130	
Toluene	ug/L	50	58.5	117	80-126	
trans-1,2-Dichloroethene	ug/L	50	62.4	125	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.3	85	70-130	
Trichloroethene	ug/L	50	58.8	118	70-130	
Trichlorofluoromethane	ug/L	50	59.8	120	76-147	
Vinyl chloride	ug/L	50	54.9	110	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1994943 1994944

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40200832005 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50	54.8	59.2	110	118	70-130	8	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50	57.1	59.7	114	119	70-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50	59.3	61.2	119	122	70-137	3	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	50	60.2	64.8	120	130	73-153	7	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	50	55.1	56.9	110	114	73-138	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	44.5	45.8	89	92	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50	49.8	52.4	100	105	58-129	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50	55.4	58.2	111	116	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50	53.3	55.8	107	112	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50	57.8	63.1	116	126	75-140	9	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50	58.3	62.2	117	124	71-138	7	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50	54.2	56.0	108	112	70-130	3	20	

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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QUALITY CONTROL DATA

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1994943 1994944												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40200832005 Result	Spike Conc.	Spike Conc.	MS Result							
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.7	55.7	105	111	70-130	6	20	
Benzene	ug/L	<0.25	50	50	57.6	61.3	115	123	70-130	6	20	
Bromodichloromethane	ug/L	<0.36	50	50	56.3	58.0	113	116	70-130	3	20	
Bromoform	ug/L	<4.0	50	50	44.7	45.4	89	91	68-129	2	20	
Bromomethane	ug/L	<0.97	50	50	49.9	55.3	100	111	15-170	10	20	
Carbon tetrachloride	ug/L	<0.17	50	50	55.5	60.3	111	121	70-130	8	20	
Chlorobenzene	ug/L	<0.71	50	50	58.4	60.5	117	121	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	58.1	60.7	116	121	51-148	4	20	
Chloroform	ug/L	<1.3	50	50	56.5	59.2	113	118	74-136	5	20	
Chloromethane	ug/L	<2.2	50	50	41.1	44.2	82	88	23-115	7	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	56.3	63.0	113	126	70-131	11	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.0	52.6	98	105	70-130	7	20	
Dibromochloromethane	ug/L	<2.6	50	50	50.3	51.6	101	103	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.1	32.1	62	64	10-132	3	20	
Ethylbenzene	ug/L	<0.22	50	50	59.1	59.8	118	120	80-125	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	56.6	56.9	113	114	70-130	1	20	
m&p-Xylene	ug/L	<0.47	100	100	118	119	118	119	70-130	0	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.5	52.8	93	106	51-145	13	20	
Methylene Chloride	ug/L	<0.58	50	50	54.6	59.8	109	120	73-140	9	20	
o-Xylene	ug/L	<0.26	50	50	59.3	60.4	119	121	70-130	2	20	
Styrene	ug/L	<0.47	50	50	59.0	60.8	118	122	70-130	3	20	
Tetrachloroethene	ug/L	1.5	50	50	58.0	57.3	113	112	70-130	1	20	
Toluene	ug/L	<0.17	50	50	58.2	58.7	116	117	80-131	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	58.6	63.0	117	126	73-148	7	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.9	45.7	88	91	70-130	4	20	
Trichloroethene	ug/L	<0.26	50	50	58.4	60.9	117	122	70-130	4	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	54.4	58.2	109	116	74-147	7	20	
Vinyl chloride	ug/L	<0.17	50	50	47.2	51.7	94	103	41-129	9	20	
4-Bromofluorobenzene (S)	%						101	102	70-130			
Dibromofluoromethane (S)	%						102	110	70-130			
Toluene-d8 (S)	%						104	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

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

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 47358.003 KOELLER ONE

Pace Project No.: 40200832

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40200832001	MW-1	EPA 8260	343611		
40200832002	MW-2	EPA 8260	343611		
40200832003	MW-3	EPA 8260	343611		
40200832004	MW-3 DUP	EPA 8260	343611		
40200832005	MW-4	EPA 8260	343611		
40200832006	MW-5	EPA 8260	343611		
40200832007	MW-6	EPA 8260	343611		
40200832008	MW-7	EPA 8260	343611		
40200832009	TRIP BLANK	EPA 8260	343611		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Anthony Miller
 Phone: 608-836-1500
 Project Number: 47358.003
 Project Name: Koeller One
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Ch Payne



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested																
N	B	VOCs																

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD (billable)
 On your sample
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested
		DATE	TIME		
001	MW-1	12/3/19	14:40	GW	3
002	MW-2	12/3/19	11:50		3
003	MW-3	12/3/19	15:00		2
004	MW-3 dup	12/3/19	"		2
005	MW-4	12/3/19	14:25		3
006	MW-5	12/3/19	13:25		1
007	MW-6	12/3/19	12:10		1
008	MW-7	12/3/19	10:30		2
009	Trip Blank				2

Quote #: 40200832

Mail To Contact: Anthony Miller
 Mail To Company: Gannett Fleming
 Mail To Address: 8040 Excelsior Dr. Madison, WI 53717

Invoice To Contact:
 Invoice To Company: See mail to
 Invoice To Address:

Invoice To Phone: 608-836-1500

CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <u>Chelsea Payne</u> Date/Time: <u>12/13/19 15:45</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40200832</u>
	Transmit Prelim Rush Results by (complete what you want): <u>Fldkx</u>	Relinquished By: <u>Fldkx</u> Date/Time: <u>12/14/19 09:20</u>	
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH OK / Adjusted
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal <input checked="" type="checkbox"/> Present / Not Present <input type="checkbox"/> Intact / Not Intact
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Pace Container Order #573274

40260882

Order By :		Ship To :		Return To:	
Company	Gannett Fleming Inc.	Company	Gannett Fleming Inc.	Company	Pace Analytical Green Bay
Contact	Payne, Chelsea	Contact	Payne, Chelsea	Contact	Milewsky, Dan
Email	cpayne@gfnet.com	Email	cpayne@gfnet.com	Email	dan.milewsky@pacelabs.com
Address	8040 Excelsior Drive, Ste 303	Address	8040 Excelsior Drive, Ste 303	Address	1241 Bellevue Street
Address 2		Address 2		Address 2	Suite 9
City	Madison	City	Madison	City	Green Bay
State	WI Zip 53717	State	WI Zip 53717	State	WI Zip 54302
Phone	NONE	Phone	NONE	Phone	(920)469-2436

Info					
Project Name	Koeller GW	Due Date	12/12/2019	Profile	x
Project	Milewsky, Dan	Return		Carrier	Most Economical
Quote		Locatio			

Trip Blanks <input checked="" type="checkbox"/> Include Trip Blanks	Bottle Labels <input type="checkbox"/> Blank <input type="checkbox"/> Pre-Printed No Sample IDs <input type="checkbox"/> Pre-Printed With Sample IDs	Bottles <input type="checkbox"/> Boxed Cases <input type="checkbox"/> Individually Wrapped <input type="checkbox"/> Grouped By Sample
Return Shipping Labels <input type="checkbox"/> No Shipper <input type="checkbox"/> With Shipper	Misc <input type="checkbox"/> Sampling Instructions <input type="checkbox"/> Custody Seal <input type="checkbox"/> Temp. Blanks <input checked="" type="checkbox"/> Coolers <input style="width: 50px;" type="text" value="1"/> <input type="checkbox"/> Syringes <input style="width: 50px;" type="text"/>	
COC Options <input type="checkbox"/> Number of Blanks <input style="width: 50px;" type="text"/> <input type="checkbox"/> Pre-Printed <input style="width: 50px;" type="text"/>	<input type="checkbox"/> Extra Bubble Wrap <input type="checkbox"/> Short Hold/Rush <input type="checkbox"/> DI <input style="width: 50px;" type="text" value="Liter(s)"/> <input type="checkbox"/> USDA Regulated Soils	

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-9-170-01VB	
9	WT	VOC WI List	3-40ml clear vial HCl-hydrochloric acid	27	0	B-9-302-01VB	

Hazard Shipping Placard In Place : NA

*Sample receiving hours are Monday through Friday 8:00 am to 6:00 pm and Saturday from 9:00 am to 12:00 pm unless special arrangements are made with your project manager.

*Pace Analytical reserves the right to return hazardous, toxic, or radioactive samples to you.

*Pace Analytical reserves the right to charge for unused bottles, as well as cost associated with sample

*Payment term are net 30 days.

*Please include the proposal number on the chain of custody to insure proper billing.

LAB USE:

Ship Date :	12/09/2019
Prepared By:	Mai Yer Her
Verified By:	

Sample

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

Sample Preservation Receipt Form

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 333
Green Bay, WI 54302

Client Name: Gannett Fleming

Project # 40200832

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	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	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

12-19-14 BR

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

AG1U 1 liter amber glass	BP1U 1 liter plastic unpres	DG9A 40 mL amber ascorbic	JGFU 4 oz amber jar unpres
AG1H 1 liter amber glass HCL	BP2N 500 mL plastic HNO3	DG9T 40 mL amber Na Thio	WGFU 4 oz clear jar unpres
AG4S 125 mL amber glass H2SO4	BP2Z 500 mL plastic NaOH, Znact	VG9U 40 mL clear vial unpres	WPFU 4 oz plastic jar unpres
AG4U 120 mL amber glass unpres	BP3U 250 mL plastic unpres	VG9H 40 mL clear vial HCL	
AG5U 100 mL amber glass unpres	BP3B 250 mL plastic NaOH	VG9M 40 mL clear vial MeOH	SP5T 120 mL plastic Na Thiosulfate
AG2S 500 mL amber glass H2SO4	BP3N 250 mL plastic HNO3	VG9D 40 mL clear vial DI	ZPLC ziploc bag
BG3U 250 mL clear glass unpres	BP3S 250 mL plastic H2SO4		GN:



Document Name:
Sample Condition Upon Receipt (SCUR)
Document No.:
F-GB-C-031-Rev.07

Document Revised: 25Apr2018
Issuing Authority:
Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: Gannett Fleming

WO#: **40200832**

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



Tracking #: 8146 9026 7281

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 - 93 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.5 ICorr: 2.5

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

Person examining contents:
Date: 12-14-19
Initials: BR

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

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input 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: <u>12-14-19 BR</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>NO time for samples - 12-14-19 BR</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>add only. SAMPLE 4 time 1500. 12-14-19 BR</u>
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>12-14-19 BR</u>
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>438</u>		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

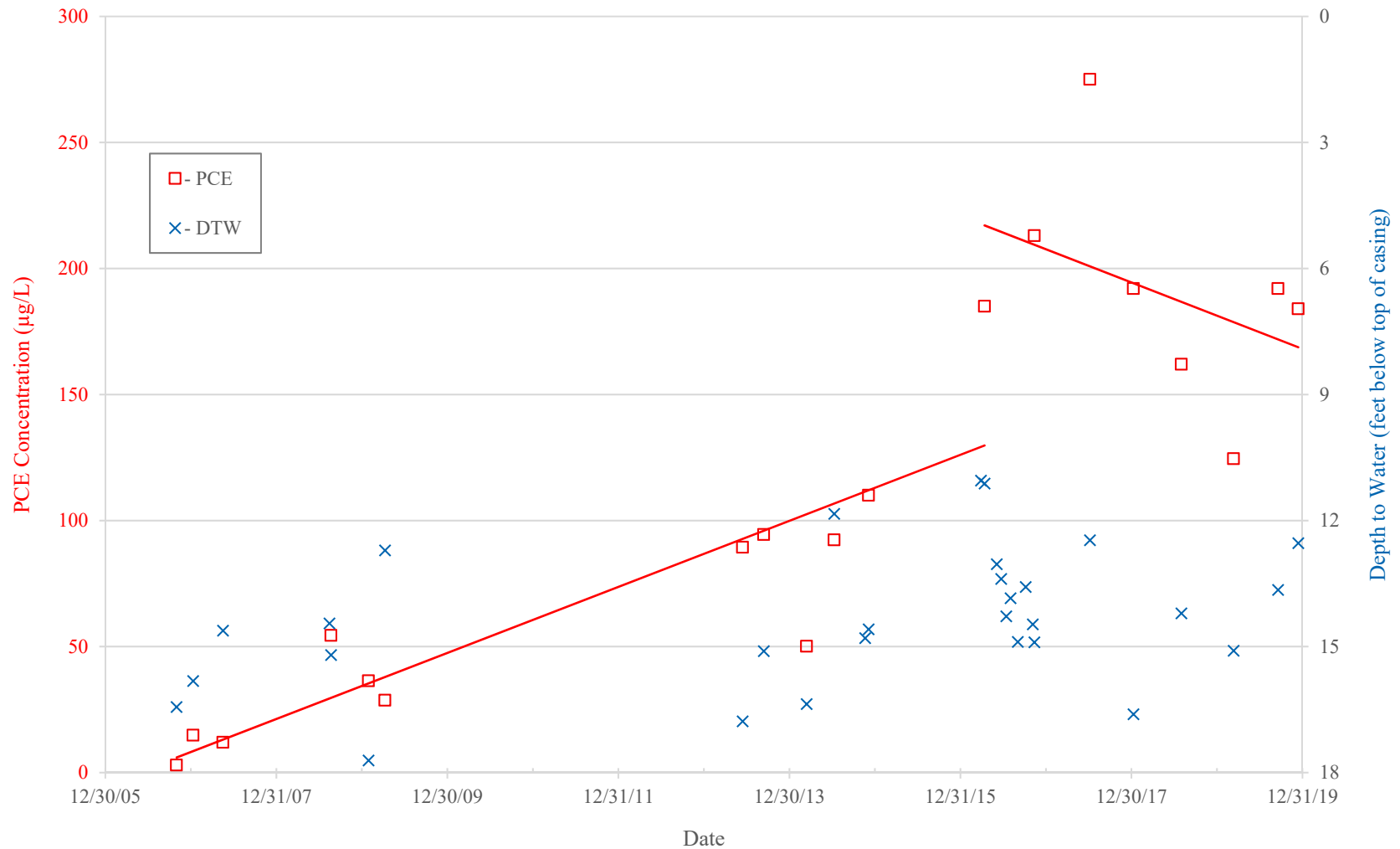
Project Manager Review: CH for DM

Date: 12/14/19

ATTACHMENT B

**CHART SHOWING PCE CONCENTRATIONS/TREND LINES &
DEPTH TO WATER MEASURED IN MW-1**

PCE CONCENTRATIONS /TREND LINES AND DEPTH TO WATER (DTW) MEASURED IN MW-1
OCTOBER 2006 - DECEMBER 2019



Note: Best-fit linear trend lines, before and after measured high-water level on 3/28/16, generated using Excel.