

## Jayne Englebert

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**From:** Jayne Englebert  
**Sent:** Thursday, June 25, 2020 3:02 PM  
**To:** Dee Lance (Dee.Lance@wisconsin.gov)  
**Cc:** Dick Lyster; 'Adam.Scheunemann@wisconsin.gov'  
**Subject:** Sampling Results - Monroe Center Store site  
**Attachments:** B.3.b. Groundwater Isoconcentration Map.pdf; Groundwater - June 2020.pdf; A.1. Groundwater Analytical Results Table.pdf

Hi Dee,

We received the groundwater sampling results today for the Geoprobe borings, private wells, and monitoring well sampling at the Monroe Center Store site. The lab report is attached (Groundwater – June 2020), and an updated Table A.1. Groundwater Analytical Results is attached. Updated Figure B.3.b shows the location of the Geoprobe borings and private wells to the west of the site.

The good news is that groundwater concentrations in the monitoring wells continue to exhibit a decreasing trend. The bad news is that we detected a high concentration of benzene (270 ug/L) at Geoprobe boring TP-2 on the west edge of the parcel at 1906 Blackhawk Avenue. Therefore, the extent of the groundwater contamination is still not defined, and it appears to have migrated onto the parcel at 1916 Blackhawk Avenue.

We did not get a response to our request to the owner of 1916 Blackhawk Avenue to sample their water supply well, but we did get permission from the owner of 1913 Blackhawk Avenue, and we collected a sample there while onsite for the other work. The good news is that no petroleum contamination was detected in the sample from 1913 Blackhawk. The bad news is that we detected 14 ug/L trichloroethene (TCE). I reviewed the lab reports for the sampling at this site where we sampled for VOCs in groundwater, and we did not detect trichloroethene in any of the samples. I updated the attached table with the trichloroethene results. We did detect 3.1 ug/L tetrachloroethene (PCE) in the grab sample from B-7 in June 2014, located on the south side of Blackhawk Avenue. No TCE or PCE was detected at TP-1, located between these two samples. No PCE was detected in any of the other VOC samples except the one from B-7. Therefore, it does not appear that the TCE or PCE detections are associated with the Monroe Center Store site.

I will send the lab results to the owner of the parcel at 1913 Blackhawk Avenue. I will include a recommendation that they contact you or Adam Scheunemann with any questions or concerns. I believe Adam is the private well contact for Adams County, according to the DNR Water Supply webpage.

My next step was to revise and resubmit the case closure request, but based on this information it appears additional work may be needed. I will therefore stop work on this project until I receive direction from you on how we should proceed.

Contact me with questions or if you need additional information.

Jayne



**Jayne Englebert, PG, CPG** | Senior Project Hydrogeologist

MSA Professional Services, Inc.

100% Employee Owned

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**A.1. Groundwater Analytical Table  
Monroe Center Store, Arkdale, WI**

Units	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Tri- methyl- benzenes ug/L	Xylenes ug/L	Total ug/L	Methyl- tert- butyl-ether ug/L	Naph- thalene ug/L	1,2-Dichloro- ethane ug/L	1,2-Dibromo- ethane ug/L	Trichloro- ethene	Dissolved Lead ug/L	Free Product Thickness feet	Groundwater Elevation in site datum feet
NR 140 ES	5	800	700	480	2000	2000	60	100	5	0.05	5	15		
NR 140 PAL	0.5	160	140	96	400	400	12	10	0.5	0.005	0.5	1.5		
<b>MW-1</b>														
31-Jul-12	1100	14000	5800	12200	23800	23800	<200	5100	<150	<150	<250	9.6	0.63	84.56
8-Aug-12	no sample												0.35	84.63
14-Sep-12	no sample												0.26	84.51
9-Jul-14	500	3200	1800	3350	9200	9200	<10	790	<10	<20	<12	0.07	0.07	85.79
6-Oct-14	760	5200	2500	4500	15000	15000	<0.30	1000				0.18	0.18	85.63
30-Aug-17	19	12	28	311	224	224	6.2	43				0	0	87.88
1-Feb-18	6.6	5.4	12	311	66	66	12	12				0	0	87.03
31-Aug-18	<4.0	4.4	49	235	134	134	<4.0	63				0	0	86.48
26-Feb-19	<4.0	<4.0	40	304	176	176	<4.0	59				0	0	86.06
4-Jun-20	<4.0	<4.0	59	263	68	68	<4.0	60				0	0	88.04
<b>MW-2</b>														
31-Jul-12	1200	8000	2400	2060	9500	9500	<0.40	510	<0.30	<0.30	<0.50	25	0	84.92
8-Aug-12	no sample												0	84.78
9-Jul-14	1100	10000	2600	3180	10600	10600	<10	820	<10	<20	<12	0.59	0.59	85.19
6-Oct-14	200	2600	930	1250	3800	3800	<40	310				0.47	0.47	85.23
30-Aug-17	810	10000	2900	3670	12500	12500	<75	670				0	0	85.69
1-Feb-18	800	13000	3200	3520	13600	13600	<200	750				0	0	85.57
31-Aug-18	270	7000	2200	7100	11100	11100	<200	2700				0	0	86.35
26-Feb-19	860	12000	4000	7900	18500	18500	<200	2100				0	0	85.82
4-Jun-20	<40	2300	900	1840	4000	4000	<40	310				0	0	87.80
<b>MW-3</b>														
31-Jul-12	67	3.2	15	5.9	26.9	26.9	<0.40	11	2.3	<0.30	<0.50	3.2	0	84.83
8-Aug-12	no sample												0	84.71
9-Jul-14	22	1.5	1.3	<1.10	5.8	5.8	0.55	0.68	0.84	<0.40	<0.24	0	0	85.59
6-Oct-14	61	<0.50	<0.50	<1.10	2.0	2.0	1.2	4.7				0	0	85.55
30-Aug-17	<0.24	<0.30	<0.30	<0.80	<0.90	<0.90	<0.30	<0.70				0	0	85.50
1-Feb-18	<0.40	<0.40	<0.40	<0.80	<1.20	<1.20	<0.40	<0.90				0	0	85.24
31-Aug-18	<0.40	<0.40	<0.40	<0.80	<1.20	<1.20	<0.40	<0.90				0	0	86.28
26-Feb-19	<0.40	<0.40	<0.40	<0.80	<1.20	<1.20	<0.40	<0.90				0	0	85.74
<b>MW-4</b>														
31-Jul-12	61	740	240	348	1120	1120	<0.40	64	<0.30	0.46	<0.50	3.7	0.11	84.72
8-Aug-12	no sample												0.10	84.60
14-Sep-12	no sample												0.53	84.08
9-Jul-14	870	12000	1200	2270	5500	5500	<10	360	<10	<20	<12	0.00	0.00	85.58
6-Oct-14	890	5800	1000	2390	5800	5800	<8.0	420				0.02	0.02	85.53
30-Aug-17	510	2000	200	450	1410	1410	3.6	74				0.00	0.00	85.65
1-Feb-18	<0.40	<0.40	<0.40	1.03	<1.20	<1.20	<0.40	<0.90				0.00	0.00	85.41
31-Aug-18	500	4200	740	2440	3700	3700	<200	500				0.00	0.00	86.21
26-Feb-19	470	4500	920	1510	4300	4300	<80	430				0.00	0.00	85.74
4-Jun-20	160	2300	800	1760	5500	5500	<40	320				0.00	0.00	87.67

Not re-surveyed after system installation, casing was cut off.

TOC = 101.01 feet site datum

TOC = 103.78 feet site datum

TOC = 108.80 feet site datum

TOC = 105.69 feet site datum

**A.1. Groundwater Analytical Table  
Monroe Center Store, Arkdale, WI**

Units	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Tri- methyl- benzenes ug/L	Total Xylenes ug/L	Methyl- tert- butyl-ether ug/L	Naph- thalene ug/L	1,2-Dichloro- ethane ug/L	1,2-Dibromo- ethane ug/L	Trichloro- ethene ug/L	Dissolved Lead ug/L	Free Product Thickness feet	Groundwater Elevation in site datum feet
NR 140 ES	5	800	700	480	2000	60	100	5	0.05	5	15		
NR 140 PAL	0.5	160	140	96	400	12	10	0.5	0.005	0.5	1.5		
<b>PZ-1</b>													
	TOC = 105.78 feet site datum												
31-Jul-12	<0.30	4.2	1.2	0.83	5.0	<0.40	<0.30	<0.30	<0.30	<0.50	3.1	0	84.84
8-Aug-12	no sample											0	84.70
9-Jul-14	<0.25	<0.50	<0.50	<1.10	<1.50	<0.20	<0.50	<0.20	<0.40	<0.24		0	85.60
6-Oct-14	<0.50	<0.50	<0.50	<1.10	<1.50	<0.40	<1.2					0	85.56
30-Aug-17	<0.24	0.36	<0.30	3.18	1.87	<0.30	0.75					0	85.47
1-Feb-18	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90					0	85.20
<b>MW-5</b>													
	TOC = 108.26 feet site datum												
9-Jul-14	<0.25	<0.50	<0.50	<1.10	<1.50	<0.20	<0.50	<0.20	<0.40	<0.24		0	85.37
6-Oct-14	<0.50	<0.50	<0.50	<1.10	<1.50	<0.40	<1.2					0	85.36
30-Aug-17	<0.24	<0.30	<0.30	<0.80	<0.90	<0.30	<0.70					0	85.24
1-Feb-18	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90					0	85.01
31-Aug-18	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90					0	86.12
26-Feb-19	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90					0	85.54
4-Jun-20	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90					0	87.45
<b>MW-6</b>													
	TOC = 102.38 feet site datum												
9-Jul-14	420	42	400	307	1310	1.9	66	1.1	<0.40	<0.24		0	85.20
6-Oct-14	1300	39	1300	970	5100	<4.0	250					0	85.21
30-Aug-17	18	0.31	22	8.9	16.6	<0.30	9.6					0	85.04
1-Feb-18	300	27	880	578	1250	<2.0	190					0	84.84
31-Aug-18	480	66	550	401	1670	<2.0	120					0	85.90
26-Feb-19	37	<2.0	51	12.6	15	<2.0	11					0	85.32
4-Jun-20	74	190	200	160	550	<2.0	53					0	87.15
<b>B-7</b>													
	Geoprobe grab sample												
12-Jun-14	<0.25	<0.50	<0.50	<1.10	<1.50	<0.20	<0.50	<0.20	<0.40	<0.24		0	
<b>TP-1</b>													
	Geoprobe grab sample												
4-Jun-20	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90						
<b>TP-2</b>													
	Geoprobe grab sample												
4-Jun-20	270	4.2	180	60.95	14.9	3.5	57						
<b>TP-3</b>													
	Geoprobe grab sample												
4-Jun-20	1.0	<0.40	1.9	0.63	<1.20	<0.40	<0.90						
<b>Olson MW-2</b>													
	TOC = 101.35 feet site datum												
9-Jul-14	no sample											0	86.06

**A.1. Groundwater Analytical Table  
Monroe Center Store, Arkdale, WI**

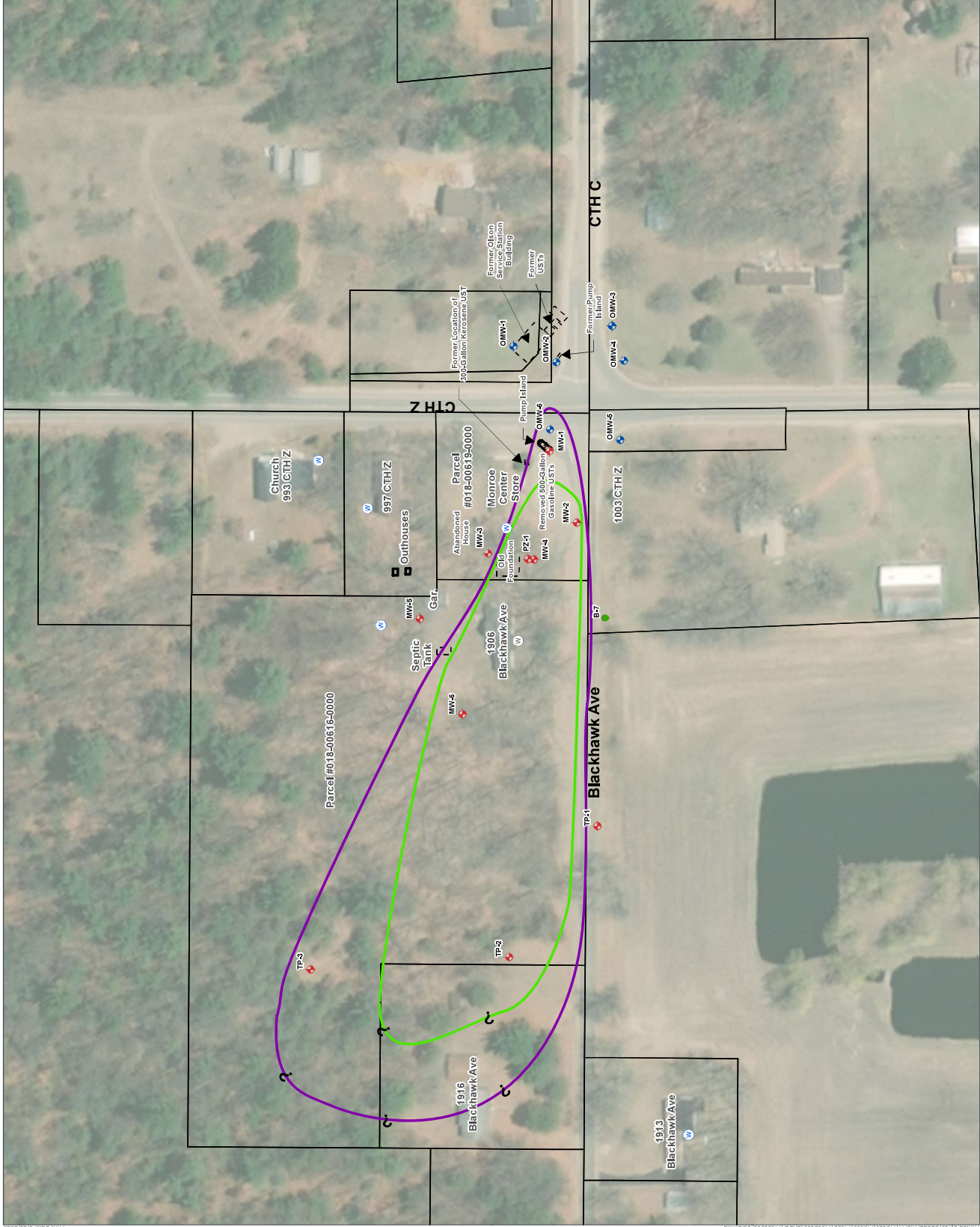
Units	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Tri- methyl- benzenes ug/L	Total Xylenes ug/L	Methyl- tert- butyl-ether ug/L	Naph- thalene ug/L	1,2-Dichloro- ethane ug/L	1,2-Dibromo- ethane ug/L	Trichloro- ethene ug/L	Dissolved Lead ug/L	Free Product Thickness feet	Groundwater Elevation in site datum feet
NR 140 ES	5	800	700	480	2000	60	100	5	0.05	5	15		
NR 140 PAL	0.5	160	140	96	400	12	10	0.5	0.005	0.5	1.5		
<b>Olson MW-5</b>													
16-Nov-11	<0.41	<0.67	<0.54	<1.8	<2.63	<0.61	0.11				2.0	0	
15-Mar-12	<0.39	<0.42	<0.41	<0.83	<1.3	<0.38	<0.40				<1.7	0	
27-Jun-12	<0.39	<0.42	<0.41	<0.83	<1.3	<0.38	<0.40				2.5	0	
27-Sep-12	0.40	<0.42	<0.41	<0.83	<1.3	<0.61	<0.40					0	
9-Jul-14	no sample											0	85.96
30-Aug-17	no sample											0	85.89
1-Feb-18	no sample											0	85.57
<b>Olson MW-6</b>													
16-Nov-11	<b>74.7</b>	240	47	33.1	227.9	<0.61	2.6				1.6	0	85.13
15-Mar-12	<b>150</b>	<b>935</b>	<b>288</b>	<b>165.7</b>	<b>969</b>	5.1	25.4				<1.7	0	85.88
31-Jul-12	no sample											0	85.92
9-Jul-14	no sample											0	85.54
30-Aug-17	<b>14</b>	7.2	100	153	108	<0.30	53					0	86.46
1-Feb-18	<0.40	0.42	12	17	8.2	<0.40	13					0	85.98
31-Aug-18	<0.40	0.57	22	17.2	22.0	<0.40	8.1					0	88.00
26-Feb-19	<0.40	<0.40	3.2	9.6	6.3	<0.40	25					0	
4-Jun-20	<0.40	7.4	72	42.9	33.0	<0.40	45					0	
<b>Onsite Water Well</b>													
31-Jul-12	<0.30	<0.30	<0.30	<0.80	<0.90	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
9-Jul-14	No access for sampling												
6-Oct-14	No access for sampling												
30-Aug-17	Attempted to collect sample, circuit breaker kept tripping, pump not working...												
31-Aug-18	Pump still blowing breaker on generator, could not collect sample.												
26-Feb-19	Pump not working												
<b>1906 Blackhawk Ave.</b>													
11-Jan-11	<b>67</b>	100	8	26	106	1.9	11	0.15	<0.15	<0.15			
31-Jul-12	<0.30	<0.30	<0.30	<0.80	<0.90	<0.40	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
9-Jul-14	No power to well												
6-Oct-14	<0.25	<0.50	<0.50	<1.10	<1.50	<0.20	<0.50	<0.20	<0.20	<0.20	<0.20	<0.40	
	New well installed in 2015												
30-Aug-17	<0.24	<0.30	<0.30	<0.80	<0.90	<0.30	<0.70	<0.30	<0.30	<0.30	<0.30	<0.30	
1-Feb-18	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90	<0.40	<0.40	<0.40	<0.40	<0.40	
31-Aug-18	No one at home, no outdoor tap, no sample.												
26-Feb-19	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90	<0.40	<0.40	<0.40	<0.40	<0.40	
4-Jun-20	<0.40	<0.40	<0.40	<0.80	<1.20	<0.40	<0.90	<0.40	<0.40	<0.40	<0.40	<0.40	
<b>1913 Blackhawk Ave.</b>													
4-Jun-20	<0.26	<0.25	<0.27	<0.59	<0.26	<0.26	<0.50	<0.23	<0.23	<0.23	<0.23	<b>14</b>	
<b>1896 CTH C</b>													
15-Feb-11	<0.15	<0.15	<0.15	<0.30	<0.30	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	

Blank = not analyzed

Bold Values exceed the NR 140 enforcement standard

**LEGEND**

-  Water Supply Well
-  Abandoned Well
-  Septic Vent
-  Soil Boring (Monroe Center Store)
-  Monitoring Wells (Monroe Center Store)
-  Monitoring Wells (Olson Property)
-  Extent of NR 140 ES Exceedances
-  Extent of NR 140 PAL Exceedances
-  Parcels




**ATTACHMENT B.3.b**

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**GROUNDWATER ISOCONCENTRATION MAP**  
 MONROE CENTER STORE  
 ARKDALE, WISCONSIN

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DRAWN BY: CS	DATE: 06/20
CHECKED BY: JE	SCALE: AS SHOWN
SHEET NO. B.3.b	
FILE NO. 115390016.3.b	

## ANALYTICAL REPORT

MSA PROFESSIONAL SERVICES  
JAYNE ENGLEBERT  
1230 SOUTH BLVD  
BARABOO, WI 53913

Project Name: MONROE CENTER  
Project Phase:  
Contract #: 2054  
Project #: 11538000  
Folder #: 153764  
Purchase Order #:

Page 1 of 12  
Arrival Temperature: See COC  
Report Date: 06/23/2020  
Date Received: 06/04/2020  
Reprint Date: 06/23/2020

CT LAB Sample#: 427851 Sample Description: TP-1

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 12:17	TMG	WDNR GRO
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:17	TMG	WDNR GRO
Benzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 12:17	TMG	WDNR GRO
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:17	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			06/10/2020 12:17	TMG	WDNR GRO
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			06/10/2020 12:17	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			06/10/2020 12:17	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:17	TMG	WDNR GRO
Toluene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:17	TMG	WDNR GRO

CT LAB Sample#: 427852 Sample Description: TP-2

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
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### Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427852 Sample Description: TP-2

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trimethylbenzene	60	ug/L	4.0	13	10			06/10/2020 18:36	TMG	WDNR GRO
1,3,5-Trimethylbenzene	0.95	ug/L	0.40 *	1.4	1			06/10/2020 15:09	TMG	WDNR GRO
Benzene	270	ug/L	4.0	13	10			06/10/2020 18:36	TMG	WDNR GRO
Ethylbenzene	180	ug/L	4.0	14	10			06/10/2020 18:36	TMG	WDNR GRO
m & p-Xylene	13	ug/L	0.80	2.8	1			06/10/2020 15:09	TMG	WDNR GRO
Methyl tert-butyl ether	3.5	ug/L	0.40	1.3	1			06/10/2020 15:09	TMG	WDNR GRO
Naphthalene	57	ug/L	9.0	29	10			06/10/2020 18:36	TMG	WDNR GRO
o-Xylene	1.9	ug/L	0.40	1.4	1			06/10/2020 15:09	TMG	WDNR GRO
Toluene	4.2	ug/L	0.40	1.4	1			06/10/2020 15:09	TMG	WDNR GRO

CT LAB Sample#: 427853 Sample Description: TP-3

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	0.63	ug/L	0.40 *	1.3	1			06/10/2020 12:51	TMG	WDNR GRO
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:51	TMG	WDNR GRO
Benzene	1.0	ug/L	0.40 *	1.3	1			06/10/2020 12:51	TMG	WDNR GRO
Ethylbenzene	1.9	ug/L	0.40	1.4	1			06/10/2020 12:51	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			06/10/2020 12:51	TMG	WDNR GRO
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			06/10/2020 12:51	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			06/10/2020 12:51	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:51	TMG	WDNR GRO
Toluene	<0.40	ug/L	0.40	1.4	1			06/10/2020 12:51	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427854 Sample Description: MW-1

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	200	ug/L	4.0	13	10			06/10/2020 16:18	TMG	WDNR GRO
1,3,5-Trimethylbenzene	63	ug/L	4.0	14	10			06/10/2020 16:18	TMG	WDNR GRO
Benzene	<4.0	ug/L	4.0	13	10			06/10/2020 16:18	TMG	WDNR GRO
Ethylbenzene	59	ug/L	4.0	14	10			06/10/2020 16:18	TMG	WDNR GRO
m & p-Xylene	50	ug/L	8.0	28	10			06/10/2020 16:18	TMG	WDNR GRO
Methyl tert-butyl ether	<4.0	ug/L	4.0	13	10			06/10/2020 16:18	TMG	WDNR GRO
Naphthalene	60	ug/L	9.0	29	10			06/10/2020 16:18	TMG	WDNR GRO
o-Xylene	18	ug/L	4.0	14	10			06/10/2020 16:18	TMG	WDNR GRO
Toluene	<4.0	ug/L	4.0	14	10			06/10/2020 16:18	TMG	WDNR GRO

CT LAB Sample#: 427855 Sample Description: MW-2

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	1400	ug/L	40	130	100			06/11/2020 10:32	TMG	WDNR GRO
1,3,5-Trimethylbenzene	440	ug/L	40	140	100			06/11/2020 10:32	TMG	WDNR GRO
Benzene	<40	ug/L	40	130	100			06/11/2020 10:32	TMG	WDNR GRO
Ethylbenzene	900	ug/L	40	140	100			06/11/2020 10:32	TMG	WDNR GRO
m & p-Xylene	2900	ug/L	80	280	100			06/11/2020 10:32	TMG	WDNR GRO
Methyl tert-butyl ether	<40	ug/L	40	130	100			06/11/2020 10:32	TMG	WDNR GRO
Naphthalene	310	ug/L	90	290	100			06/11/2020 10:32	TMG	WDNR GRO
o-Xylene	1100	ug/L	40	140	100			06/11/2020 10:32	TMG	WDNR GRO
Toluene	2300	ug/L	40	140	100			06/11/2020 10:32	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis



CT LAB Sample#: 427856 Sample Description: MW-4

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	1300	ug/L	40	130	100			06/11/2020 09:57	TMG	WDNR GRO
1,3,5-Trimethylbenzene	460	ug/L	40	140	100			06/11/2020 09:57	TMG	WDNR GRO
Benzene	160	ug/L	40	130	100			06/11/2020 09:57	TMG	WDNR GRO
Ethylbenzene	800	ug/L	40	140	100			06/11/2020 09:57	TMG	WDNR GRO
m & p-Xylene	3900	ug/L	80	280	100			06/11/2020 09:57	TMG	WDNR GRO
Methyl tert-butyl ether	<40	ug/L	40	130	100			06/11/2020 09:57	TMG	WDNR GRO
Naphthalene	320	ug/L	90	290	100			06/11/2020 09:57	TMG	WDNR GRO
o-Xylene	1600	ug/L	40	140	100			06/11/2020 09:57	TMG	WDNR GRO
Toluene	2300	ug/L	40	140	100			06/11/2020 09:57	TMG	WDNR GRO

CT LAB Sample#: 427857 Sample Description: MW-5

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 13:26	TMG	WDNR GRO
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 13:26	TMG	WDNR GRO
Benzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 13:26	TMG	WDNR GRO
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 13:26	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			06/10/2020 13:26	TMG	WDNR GRO
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			06/10/2020 13:26	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			06/10/2020 13:26	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			06/10/2020 13:26	TMG	WDNR GRO
Toluene	<0.40	ug/L	0.40	1.4	1			06/10/2020 13:26	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427858 Sample Description: MW-6

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	130	ug/L	2.0	6.5	5			06/10/2020 15:44	TMG	WDNR GRO
1,3,5-Trimethylbenzene	30	ug/L	2.0	7.0	5			06/10/2020 15:44	TMG	WDNR GRO
Benzene	74	ug/L	2.0	6.5	5			06/10/2020 15:44	TMG	WDNR GRO
Ethylbenzene	200	ug/L	2.0	7.0	5			06/10/2020 15:44	TMG	WDNR GRO
m & p-Xylene	400	ug/L	4.0	14	5			06/10/2020 15:44	TMG	WDNR GRO
Methyl tert-butyl ether	<2.0	ug/L	2.0	6.5	5			06/10/2020 15:44	TMG	WDNR GRO
Naphthalene	53	ug/L	4.5	15	5			06/10/2020 15:44	TMG	WDNR GRO
o-Xylene	150	ug/L	2.0	7.0	5			06/10/2020 15:44	TMG	WDNR GRO
Toluene	190	ug/L	2.0	7.0	5			06/10/2020 15:44	TMG	WDNR GRO

CT LAB Sample#: 427859 Sample Description: OMW-6

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	41	ug/L	0.40	1.3	1			06/10/2020 14:00	TMG	WDNR GRO
1,3,5-Trimethylbenzene	1.9	ug/L	0.40	1.4	1			06/10/2020 14:00	TMG	WDNR GRO
Benzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 14:00	TMG	WDNR GRO
Ethylbenzene	72	ug/L	2.0	7.0	5			06/10/2020 18:02	TMG	WDNR GRO
m & p-Xylene	14	ug/L	0.80	2.8	1			06/10/2020 14:00	TMG	WDNR GRO
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			06/10/2020 14:00	TMG	WDNR GRO
Naphthalene	45	ug/L	0.90	2.9	1			06/10/2020 14:00	TMG	WDNR GRO
o-Xylene	19	ug/L	0.40	1.4	1			06/10/2020 14:00	TMG	WDNR GRO
Toluene	7.4	ug/L	0.40	1.4	1			06/10/2020 14:00	TMG	WDNR GRO

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427860 Sample Description: 1906 BLACKHAWK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 14:35	TMG	WDNR GRO
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 14:35	TMG	WDNR GRO
Benzene	<0.40	ug/L	0.40	1.3	1			06/10/2020 14:35	TMG	WDNR GRO
Ethylbenzene	<0.40	ug/L	0.40	1.4	1			06/10/2020 14:35	TMG	WDNR GRO
m & p-Xylene	<0.80	ug/L	0.80	2.8	1			06/10/2020 14:35	TMG	WDNR GRO
Methyl tert-butyl ether	<0.40	ug/L	0.40	1.3	1			06/10/2020 14:35	TMG	WDNR GRO
Naphthalene	<0.90	ug/L	0.90	2.9	1			06/10/2020 14:35	TMG	WDNR GRO
o-Xylene	<0.40	ug/L	0.40	1.4	1			06/10/2020 14:35	TMG	WDNR GRO
Toluene	<0.40	ug/L	0.40	1.4	1			06/10/2020 14:35	TMG	WDNR GRO

CT LAB Sample#: 427861 Sample Description: 1913 BLACKHAWK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1			06/18/2020 03:29	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1			06/18/2020 03:29	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1			06/18/2020 03:29	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1			06/18/2020 03:29	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1			06/18/2020 03:29	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1			06/18/2020 03:29	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1			06/18/2020 03:29	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1			06/18/2020 03:29	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1			06/18/2020 03:29	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427861 Sample Description: 1913 BLACKHAWK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	1		06/18/2020 03:29	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	1		06/18/2020 03:29	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	1		06/18/2020 03:29	RLD	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	1		06/18/2020 03:29	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	1		06/18/2020 03:29	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	1		06/18/2020 03:29	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	1		06/18/2020 03:29	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	1		06/18/2020 03:29	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	1		06/18/2020 03:29	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	1		06/18/2020 03:29	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	1		06/18/2020 03:29	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	1		06/18/2020 03:29	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	1		06/18/2020 03:29	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	1		06/18/2020 03:29	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	1		06/18/2020 03:29	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	1		06/18/2020 03:29	RLD	EPA 524.2
Chloromethane	<b>0.20</b>	ug/L	0.19 *	0.63	1	1		06/18/2020 03:29	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	1		06/18/2020 03:29	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427861 Sample Description: 1913 BLACKHAWK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1			06/18/2020 03:29	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1			06/18/2020 03:29	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1			06/18/2020 03:29	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1			06/18/2020 03:29	RLD	EPA 524.2
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1			06/18/2020 03:29	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1			06/18/2020 03:29	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1			06/18/2020 03:29	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1			06/18/2020 03:29	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1			06/18/2020 03:29	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1			06/18/2020 03:29	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1			06/18/2020 03:29	RLD	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1			06/18/2020 03:29	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1			06/18/2020 03:29	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1			06/18/2020 03:29	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1			06/18/2020 03:29	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1			06/18/2020 03:29	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1			06/18/2020 03:29	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1			06/18/2020 03:29	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1			06/18/2020 03:29	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1			06/18/2020 03:29	RLD	EPA 524.2
Trichloroethene	<b>14</b>	ug/L	1.5	5.0	5			06/18/2020 08:47	DGS	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1			06/18/2020 03:29	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1			06/18/2020 03:29	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427862 Sample Description: TRIP BLANK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
<b>Organic Results</b>										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1			06/18/2020 02:33	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1			06/18/2020 02:33	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1			06/18/2020 02:33	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1			06/18/2020 02:33	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1			06/18/2020 02:33	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1			06/18/2020 02:33	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1			06/18/2020 02:33	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1			06/18/2020 02:33	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1			06/18/2020 02:33	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1			06/18/2020 02:33	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1			06/18/2020 02:33	RLD	EPA 524.2
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1			06/18/2020 02:33	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1			06/18/2020 02:33	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1			06/18/2020 02:33	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1			06/18/2020 02:33	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1			06/18/2020 02:33	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1			06/18/2020 02:33	RLD	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1			06/18/2020 02:33	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1			06/18/2020 02:33	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1			06/18/2020 02:33	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1			06/18/2020 02:33	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427862 Sample Description: TRIP BLANK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1			06/18/2020 02:33	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1			06/18/2020 02:33	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1			06/18/2020 02:33	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1			06/18/2020 02:33	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1			06/18/2020 02:33	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1			06/18/2020 02:33	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1			06/18/2020 02:33	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1			06/18/2020 02:33	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1			06/18/2020 02:33	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1			06/18/2020 02:33	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1			06/18/2020 02:33	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1			06/18/2020 02:33	RLD	EPA 524.2
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1			06/18/2020 02:33	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1			06/18/2020 02:33	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1			06/18/2020 02:33	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1			06/18/2020 02:33	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1			06/18/2020 02:33	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1			06/18/2020 02:33	RLD	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1			06/18/2020 02:33	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1			06/18/2020 02:33	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1			06/18/2020 02:33	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB Sample#: 427862 Sample Description: TRIP BLANK

Sampled: 06/04/2020

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1			06/18/2020 02:33	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1			06/18/2020 02:33	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1			06/18/2020 02:33	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1			06/18/2020 02:33	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1			06/18/2020 02:33	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1			06/18/2020 02:33	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1			06/18/2020 02:33	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1			06/18/2020 02:33	RLD	EPA 524.2



**Notes regarding entire Chain of Custody:**

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.  
 All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals  
 Project Manager  
 608-356-2760

**QC Qualifiers**

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

**Current CT Laboratories Certifications**  
 Wisconsin (WDNR) Chemistry ID# 157066030  
 Wisconsin (DATCP) Bacteriology ID# 289  
 Louisiana NELAP (primary) ID# ACC20190002  
 Illinois NELAP Lab ID# 200073  
 Kansas NELAP Lab ID# E-10368  
 Virginia NELAP Lab ID# 460203  
 ISO/IEC 17025-2005 A2LA Cert # 3806.01  
 DoD-ELAP A2LA 3806.01  
 GA EPD Stipulation ID ACC20190002

CHAIN OF CUSTODY

Company: MSA Professional  
 Project Contact: Eugene Engelbert  
 Telephone: 608-356-2760  
 Project Name: Monroe Center  
 Project #: 11538000  
 Location: WI  
 Sampled By: David Fitzsimmons

1230 Lange Court, Baraboo, WI 53913  
 608-356-2760 Fax 608-356-2766  
 www.ctlaboratories.com  
 Folder #: 153764  
 Company: MSA PROFESSIONAL S  
 Project: MONROE CENTER  
 Logged By: EKB PM: ET  
 RCRA SDWA NPDES  
 Waste Other

Report To: MSA  
 EMAIL: 1230 South Blvd.  
 Company: Baraboo WI 53913  
 Address:  
 Invoice To:  
 EMAIL:  
 Company:  
 Address:

\*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions

Pelka

ANALYSES REQUESTED

ANALYSES REQUESTED	Filtered? Y/N	Total # Containers	Designated MS/MSD	Turnaround Time
Normal				RUSH*
Rush analysis requires prior CT Laboratories' approval				Date Needed:
Surcharges:				24 hr 200%
				2-3 days 100%
				4-9 days 50%

Collection Date	Time	Matrix	Grab/Comp	Sample #	Sample ID Description	Filtered? Y/N	Fill in Spaces with Bottles per Test	CT Lab ID # <i>Lab use only</i>
6/4/20		GW	G		TP-1	N		427851
					TP-2	X		427852
					TP-3	X		427853
					mw-1	X		427854
					mw-2	X		427855
					mw-4	X		427856
					mw-5	X		427857
					mw-26	X		427858
					OMW-6	X		427859
					1906 Blackhawk	X		427860
					1913 Blackhawk	X		427861
					Trip Blank	X		427862

Received By: *[Signature]*  
 Date/Time: 6/4/2020 1400  
 Received for Laboratory by: *[Signature]*  
 Date/Time: 6-4-2020 15:22  
 Ice Present: Yes No  
 Temp: 29.9 IR Gun 24  
 Cooler #: XXX