Meridian Environmental Consulting, LLC

January 20, 2020

Carrie Stoltz
Wisconsin Department of Natural Resources
107 Sutliff Avenue
Rhinelander, Wisconsin 54501

Subject: **Progress Report:**
- **Ground Water Sampling (August 27, November 20 – 2019)**

Olson & Goodman, Inc
328 S. Hwy 13
Stetsonville, Wisconsin 54480
PECFA No. 54480-9742-28
DNR BRRTS No. 03-61-563926
Meridian No. 05F807

Dear Carrie:

This Progress Report describes recent work completed at the above referenced site.

This included:

- Sample monitoring well network (August 27 & November 20, 2019)
- Re-survey monitoring well network (due to frost-heaving and well repairs)

The results of this work are described in this report. Based on these results, we recommend this site be submitted for Closure. A Change Order will be submitted in separate correspondence.

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BACKGROUND INFORMATION

The reader is referred to file reports for more detail regarding the site and previous work. A brief summary is provided below for reference.

The site is a commercial property located at 328 South State Hwy. 13 in the Village of Stetsonville, Wisconsin (Taylor County)(Figures 1 and 2). There was a buried underground storage tank (500 gallon gasoline) in use at the south end of the parking area (Figure 2). This tank was removed November 12, 1992.

There are reports that a diesel tank was buried along the south side of the property. The tank was believed to have been removed in the late 1960's/early 1970's. No further information has been found regarding this tank.

A Site Investigation was completed beginning in 2015. Soil borings and monitoring wells were installed to define the extent of impacted soil and ground water. The wells designated 'A' are water table wells and the wells designated 'B' or 'P' are piezometers.

The ground water monitoring well network was installed to determine the extent of impacted ground water. This network included four wells (MW-7, MW-7P, MW-9, MW-9P) installed during the nearby Ed's Service (BRRTS No. 03-61-183093) Site Investigation. These wells are now considered part of the Olson Goodman monitoring well network.

Ground water sampling of the monitoring well network identified MTBE concentrations in MW-9P above the NR140 Preventative Action Limit (PAL). The DNR Closure Committee recommended the extent of MTBE above PALs be defined with additional monitoring wells. Monitoring wells MW-10A, -10B, -11A, -11B were installed October 8 & 9, 2018 in the locations shown on Figure 2 to define the extent of MTBE PAL exceedances.

A vapor intrusion investigation was completed for the adjacent residence (108 Mink Ave). DNR Action Levels for Vapor Intrusion were not exceeded in these air samples. No further investigation is recommended with respect to vapor intrusion.

A remedial excavation (595.52 tons) of the former gasoline tank area was completed in fall 2016.

RECENT WORK

Ground Water Sampling

The monitoring well network was sampled August 27 & November 20, 2019. The analytical reports are provided in Appendix A and summarized in Table 1.

The depth to ground water (Table 2) and natural attenuation parameters (e.g., dissolved oxygen, temperature, pH, conductivity, ORP) (Table 3) were measured during each sampling event.

Monitoring Well Repair and Re-Survey

The monitoring well elevations were re-surveyed August 29, 2019. The PVC casing in monitoring wells MW-2A, -2B, -3A, -7, -9, and MW-9P had "frost-heaved" and had to be cut down to allow the lid to be re-attached to the manway. The lid and well plug on monitoring well MW-3A were loose and surface water was observed running into the well. The PVC casing was cut down and the lid re-attached.

DATA EVALUATION

Hydrogeology

Stetsonville is located at a drainage divide between the Black River watershed (to the north and west) and the Big Eau Pleine River watershed (to the south). Wetlands are located south and east of the village connecting to the West Branch of the Big Eau Pleine River which drains to the south (see Figure 1). The surface topography around Stetsonville is relatively flat with a gentle slope to the south at the site.

Based on nearby well logs, the site is underlain by 50 - 60 feet of glacial sediments resting on granite bedrock. The glacial sediments are fine-grained silts with sand and clay layers. Figure 3 is a cross-section illustrating the local geology.

Ground water is typically within 5 feet of grade with a southerly flow direction (Figure 4). There is a downward vertical gradient measured in well nests (see Table 2).

There was a dewatering sump located adjacent to a loading ramp on the south side of the Olson Goodman building (see Figure 2). The loading ramp sloped downward about 5 feet below grade to allow trucks to be off-loaded into the building. The dewatering sump kept the loading ramp dry. This dewatering action likely influenced shallow ground water flow within the immediate vicinity of the sump.

The ramp and sump were filled in the fall of 2018. This allows ground water to flow more naturally to the south although the drainage ditches likely influence ground water flow locally.

Extent of Impacted Soil

Figure 5 illustrates the interpreted extent of impacted soil based on the soil boring data (Table 4) and confirmation samples from the remedial excavation. The remedial excavation removed all

accessible soils from the former tank basin area. Residual impacts were measured along the south wall of the excavation adjacent to the house located at 108 Mink Ave.

Vapor intrusion sampling along the north side of the house (the house is constructed on a concrete slab) did not measure any impacts above DNR Action Levels (see Table 5).

Extent of Impacted Ground Water

MTBE concentrations above NR140 Enforcement Standards and/or Preventative Action Limits (PALs) were measured repeatedly in monitoring well MW-9P (Table 1) which was installed as part of the nearby Ed's Service investigation. The MTBE concentrations steadily decreased in MW-1R and MW-9P after the remedial excavation and the NR140 PAL exceedance for MTBE is no longer measured in any of the monitoring wells.

Benzene concentrations above the NR140 ES or PAL were measured in the May 16, 2019 ground water samples from MW-2A, MW-3A, and MW-7P (see Table 1). The concentrations may be due to several factors including the frost-heaving and manway damage. The recent filling of the loading ramp and adjacent dewatering sump may have also influenced ground water quality and flow locally.

The benzene concentrations have decreased to below NR140 ES throughout the monitoring well network. No NR140 ES exceedances are measured in any of the monitoring wells.

CONCLUSIONS AND RECOMMENDATIONS

The Site Investigation has characterized the site hydrogeology. The extent of impacted soil and ground water has been defined.

Residual soil contamination remains along the south wall of the remedial excavation. These impacts can be allowed to naturally degrade. Vapor intrusion sampling indicates the residual soil contamination is not impacting the adjacent home at 108 Mink Ave.

No ground water impacts above NR140 ES were measured in the monitoring well network.

We recommend the site be submitted for Closure and the monitoring wells be abandoned per NR141.

A Change Order will be prepared for the above recommendations.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG
Project Manager

C: Gary Gilbert – Project Engineer

TABLES

Table 1: Ground Water Analytical Data

Olson Goodman/Stetsonville

Sample	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-TMB	1,3,5-TMB	Total TMBs	m,p-xylenes	o-xylenes	Xylene (Total)
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l			ug/l
NR140 ES	5	700	60	100	800			480			2000
NR140 PAL	0.5	140	12	10	160			96			400
MW-1	*Installed 10/16/15*										
11/5/2015	**22200**	**2670**	**890**	**709**	**37600**	2300	704	**3004**			**18100**
3/30/2016	**22900**	**5240**	**201**	**4960**	**61800**	6740	1850	**8590**			**30000**
6/14/2016	**27200**	**9590**	**<485**	**3130**	**81400**	15400	5060	**20460**			**53200**
Abandoned October 2016 for Remedial Excavation											
MW-1R	*Installed 4/26/17*										
5/24/2017	<.5	<.5	4	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	**6.3**	<.39	1.7	2.4	<.39	<.42	<.42	<.84			<1.2
11/13/2017	*1*	<.39	.66J	<.42	<.39	<.42	<.42	<.84			<1.2
5/7/2018	.37J	<.33	<.32	<.51	<.49	<.34	<.33	<.67			<.97
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.67			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	*.29J*	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-2A	*Installed 4/24/2017*										
5/24/2017	<.5	<.5	1.8	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	<.4	<.39	1.8	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	1.1	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	.85J	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	.82J	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	*.78J*	<.22	1.7J	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	*1.1*	<.22	2.8J	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	*0.54J*	<.22	3.8J	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-2B	*Installed 4/24/2017*										
5/24/2017	<.5	<.5	<.17	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-3A	*Installed 4/25/2017*										
5/24/2017	<.5	<.5	.57J	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	<.4	<.39	1.1	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	.89J	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	1.0J	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	3.1	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	**8.2**	<.22	4.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	5.8	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	4.1J	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-3B	*Installed 4/25/2017*										
5/24/2017	<.5	<.5	<.17	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73

Table 1: Ground Water Analytical Data

Olson Goodman/Stetsonville

Sample	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-TMB	1,3,5-TMB	Total TMBs	m,p-xylenes	o-xylenes	Xylene (Total)
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l			ug/l
NR140 ES	5	700	60	100	800			480			2000
NR140 PAL	0.5	140	12	10	160			96			400
MW-4	*Installed 4/26/2017*										
5/24/2017	<.5	<.5	<.17	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-5	*Installed 4/26/2017*										
5/24/2017	<.5	.57J	<.17	<2.5	<.5	<.5	<.5	<.5	<1	<.5	<1
8/29/2017	*.88J*	<.39	<.48	.71J	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	.59J	<.39	<.42	<.42	<.42			<1.2
5/7/2018	*2.3*	4.1	.87J	<.51	<.49	.37J	.44J	.81J			.99J
10/25/2018	*.31J*	.68J	<.32	.63J	<.49	<.34	<.33	<.34			<.97
5/16/2019	*2.5*	1.1	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-7	*Installed 2/20/2008 (as part of Ed's Service site)*										
5/24/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
8/29/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-7P	*Installed 1/22/2010 (as part of Ed's Service site)*										
5/24/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
8/29/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	.76J	<.32	<.51	<.49	.35J	<.33	.35J			2.4J
10/25/2018	Vehicle over well										
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	**6.8**	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
12/7/2019	*1.4*	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-9	*Installed 1/22/2010 (as part of Ed's Service site)*										
(samples collected as part of Ed's Service site)											
3/24/2010	<.2	<.2	<.5	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
6/21/2010	<.2	<.2	<.5	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
9/20/2010	<.2	<.2	<.5	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
12/7/2010	<.2	<.2	<.5	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
11/8/2011	<.2	<.2	<.5	NA	<.4	<.2	<.2	<.2	<.4	<.2	<.4
5/10/2012	*0.87*	<.2	<.5	NA	<.4	<.2	<.2	<.2	<.4	<.2	<.4
6/20/2014	<.5	<.5	<.17	NA	<.5	<.5	<.5	<.5			<1.5
9/23/2014	<.5	<.5	<.17	NA	<.5	<.5	<.5	<.5			<1.5
6/14/2016	<.4	<.39	<.48	NA	<.48	<.42	<.42	<.42			<1.2
(samples collected as part of Olson Goodman site)											
5/24/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
8/29/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	<.4	<.39	<.48	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73

Table 1: Ground Water Analytical Data

Olson Goodman/Stetsonville

Sample	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-TMB	1,3,5-TMB	Total TMBs	m,p-xylenes	o-xylenes	Xylene (Total)
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l			ug/l
NR140 ES	5	700	60	100	800			480			2000
NR140 PAL	0.5	140	12	10	160			96			400
MW-9P	*Installed 1/22/2010 (as part of Ed's Service site)*										
(samples collected as part of Ed's Service site)											
3/24/2010	*0.54*	<.2	**88.8**	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
6/21/2010	<.2	<.2	**142**	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
9/20/2010	<.2	<.2	**99.7**	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
12/7/2010	<.2	<.2	**111**	<1	<.4	<.2	<.2	<.2	<.4	<.2	<.4
11/8/2011	<.2	<.2	**69.5**	NA	<.4	<.2	<.2	<.2	<.4	<.2	<.4
5/10/2012	0.49	<.2	**171**	NA	<.4	<.2	<.2	<.2	<.4	<.2	<.4
6/20/2014	<.5	<.5	**141**	NA	<.5	<.5	<.5	<.5			<1.5
9/23/2014	<.5	<.5	**146**	NA	<.5	<.5	<.5	<.5			<1.5
3/30/2016	<.4	<.39	**106**	<.42	<.39	<.42	<.42	<.42			<1.2
6/14/2016	<.4	<.39	**83.3**	NA	<.39	<.42	<.42	<.42			<1.2
(samples collected as part of Olson Goodman site) (excavation completed October 2016)											
5/24/2017	<.4	<.39	*31.2*	<.42	<.39	<.42	<.42	<.42			<1.2
8/29/2017	*.53J*	<.39	*44.2*	<.42	<.39	<.42	<.42	<.42			<1.2
11/13/2017	*.67J*	<.39	*39.2*	<.42	<.39	<.42	<.42	<.42			<1.2
5/7/2018	<.31	<.33	*29.5*	<.51	<.49	<.34	<.33	<.34			<.97
10/25/2018	<.31	<.33	*26.5*	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	10.3	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	7.3	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-10A	*Installed 10/8/18*										
10/25/2018	<.31	<.33	.48J	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-10B	*Installed 10/8/18*										
10/25/2018	<.31	<.33	6.9	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	2.8J	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	1.9J	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-11A	*Installed 10/9/18*										
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
MW-11B	*Installed 10/9/18*										
10/25/2018	<.31	<.33	<.32	<.51	<.49	<.34	<.33	<.34			<.97
5/16/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
8/27/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73
11/20/2019	<.25	<.22	<1.2	<1.2	<.17	<.84	<.87	<1.71	<.47	<.26	<.73

Table 2: Ground Water Elevations

Olson Goodman/Stetsonville

MW-1 (installed October 16, 2015)		
Surface Elevation (ft)		98
Top of Casing elevation (ft)		97.73
Top of Screen Elevation (ft)		92.73
Bottom of Screen Elevation (ft)		82.73
Measurement Date	DTW (ft)	GW Elev (ft)
11/5/2015	4.42	93.31
3/30/2016	3.78	93.95
6/14/2016 (1 inch LNAPL)	3.1	94.63
10/31/16 Abandoned due to remedial excavation		

MW-1R (installed April 26, 2017)		
Surface Elevation (ft)		101.75
Top of Casing elevation (ft)		101.66
Top of Screen Elevation (ft)		96.75
Bottom of Screen Elevation (ft)		86.75
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	0.74	100.92
8/29/2017	2.48	99.18
11/13/2017	2.58	99.08
Resurvey 5/7/18		101.44
5/7/2018	1.08	100.36
10/25/2018	2.11	99.33
5/16/2019	2.1	99.34
Resurvey 8/27/2019		101.4
8/27/2019	1.53	99.87
11/20/2019	1.98	99.42

MW-2A (installed 4/24/17)		
Surface Elevation (ft)		100.25
Top of Casing elevation (ft)		100
Top of Screen Elevation (ft)		95.25
Bottom of Screen Elevation (ft)		85.25
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	0.82	99.18
8/29/2017	2.46	97.54
11/13/2017	2.55	97.45
Resurvey 5/7/18		100
5/7/2018	1.23	98.77
Resurvey 10/25/18		100
10/25/2018	1.71	98.29
5/16/2019	1.22	98.78
Resurvey 8/27/2019		100
8/27/2019	2.02	97.98
11/20/2019	2.48	97.52

MW-2B (installed 4/24/17)		
Surface Elevation (ft)		100.25
Top of Casing elevation (ft)		99.96
Top of Screen Elevation (ft)		70.25
Bottom of Screen Elevation (ft)		65.25
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	1.71	98.25
8/29/2017	3.95	96.01
11/13/2017	3.3	96.66
Resurvey 5/7/18		99.99
5/7/2018	2.7	97.29
Resurvey 10/25/18		100
10/25/2018	2.87	97.13
5/16/2019	2.62	97.38
Resurvey 8/27/2019		100.04
8/27/2019	3.49	96.55
11/20/2019	3.5	96.54

MW-3A (installed 4/25/17)		
Surface Elevation (ft)		100.5
Top of Casing elevation (ft)		100.22
Top of Screen Elevation (ft)		95.5
Bottom of Screen Elevation (ft)		85.5
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	1.52	98.7
8/29/2017	3.37	96.85
11/13/2017	3.17	97.05
Resurvey 5/7/18		100.19
5/7/2018	2.01	98.18
10/25/2018	2.51	97.68
5/16/2019	2.15	98.04
Resurvey 8/27/2019		100.25
8/27/2019	2.82	97.43
11/20/2019	3.17	97.08

MW-3B (installed 4/25/17)		
Surface Elevation (ft)		100.5
Top of Casing elevation (ft)		99.02
Top of Screen Elevation (ft)		70.5
Bottom of Screen Elevation (ft)		65.5
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	1.74	97.28
8/29/2017	3.88	95.14
11/13/2017	3.3	95.72
Resurvey 5/7/18		100.17
5/7/2018	2.54	97.63
10/25/2018	2.75	97.42
5/16/2019	2.51	97.66
Resurvey 8/27/2019		100.28
8/27/2019	3.39	96.89
11/20/2019	3.45	96.83

MW-4 (installed 4/26/17)		
Surface Elevation (ft)		101.25
Top of Casing elevation (ft)		100.94
Top of Screen Elevation (ft)		96.25
Bottom of Screen Elevation (ft)		86.25
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	1.69	99.25
8/29/2017	5.35	95.59
11/13/2017	2.72	98.22
Resurvey 5/7/18		100.85
5/7/2018	2.54	98.31
10/25/2018	2.12	98.73
5/16/2019	1.6	99.25
Resurvey 8/27/2019		100.91
8/27/2019	2.21	98.7
11/20/2019	2.9	98.01

MW-5 (installed 4/26/17)		
Surface Elevation (ft)		100.75
Top of Casing elevation (ft)		100.46
Top of Screen Elevation (ft)		95.75
Bottom of Screen Elevation (ft)		85.75
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	0.48	99.98
8/29/2017	1.42	99.04
11/13/2017	1.6	98.86
Resurvey 5/7/18		100.27
5/7/2018	1.53	98.74
10/25/2018	1.38	98.89
5/16/2019	1.45	98.82
Resurvey 8/27/2019		100.33
8/27/2019	1.1	99.23
11/20/2019	1.6	98.73

Table 2: Ground Water Elevations

Olson Goodman/Stetsonville

MW-7 (installed Feb. 20, 2008)(transferred from adjacent site - Ed's Service)		
Surface Elevation (ft)		102.75
Top of Casing elevation (ft)		102.47
Top of Screen Elevation (ft)		97.75
Bottom of Screen Elevation (ft)		82.75
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	1.06	101.41
8/29/2017	2.6	99.87
11/13/2017	2.54	99.93
Resurvey 5/7/18		102.52
5/7/2018	1.6	100.92
10/25/2018	2.07	100.45
5/16/2019	1.25	101.27
Resurvey 8/27/2019		102.39
8/27/2019	2.05	100.34
11/20/2019	2.6	99.79

MW-7P (installed Jan. 22, 2010)(transferred from adjacent site - Ed's Service)		
Surface Elevation (ft)	unsurveyed	
Top of Casing elevation (ft)		
Top of Screen Elevation (ft)		
Bottom of Screen Elevation (ft)		
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	0.58	-0.58
8/29/2017		
11/13/2017	inaccessible	
Resurvey 5/7/18		101.58
5/7/2018	0.76	100.82
10/25/2018	vehicle over well	
5/16/2019	0.54	101.04
Resurvey 8/27/2019		101.55
8/27/2019	1.39	100.16
12/7/2019	10.25	91.3

MW-9 (installed Jan. 22, 2010)(transferred from adjacent site - Ed's Service)		
Surface Elevation (ft)		101
Top of Casing elevation (ft)		100.58
Top of Screen Elevation (ft)		96
Bottom of Screen Elevation (ft)		81
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	1.81	98.77
8/29/2017	3.96	96.62
11/13/2017	3.23	97.35
Resurvey 5/7/18		100.38
5/7/2018	2.41	97.97
Resurvey 5/7/18		100.38
10/25/2018	2.66	97.72
5/16/2019	2.29	98.09
Resurvey 8/27/2019		100.3
8/27/2019	3.05	97.25
11/20/2019	3.11	97.19

MW-9P (installed Jan. 22, 2010)(transferred from adjacent site - Ed's Service)		
Surface Elevation (ft)		101
Top of Casing elevation (ft)		100.51
Top of Screen Elevation (ft)		71
Bottom of Screen Elevation (ft)		66
Measurement Date	DTW (ft)	GW Elev (ft)
5/24/2017	2.3	98.21
8/29/2017	4.73	95.78
11/13/2017	3.91	96.6
Resurvey 5/7/18		100.32
5/7/2018	3.09	97.23
Resurvey 5/7/18		100.32
10/25/2018	3.24	97.08
5/16/2019	2.85	97.47
Resurvey 8/27/2019		100.22
8/27/2019	3.74	96.48
11/20/2019	3.74	96.48

MW-10A (installed 10/8/18)		
Surface Elevation (ft)		99.5
Top of Casing elevation (ft)		99.37
Top of Screen Elevation (ft)		94.5
Bottom of Screen Elevation (ft)		84.5
Measurement Date	DTW (ft)	GW Elev (ft)
10/25/2018	2.06	97.31
5/16/2019	0.96	98.41
Resurvey 8/27/2019		99.49
8/27/2019	1.71	97.78
11/20/2019	2.21	97.28

MW-10b (installed 10/8/18)		
Surface Elevation (ft)		99.5
Top of Casing elevation (ft)		99.42
Top of Screen Elevation (ft)		70.5
Bottom of Screen Elevation (ft)		65.5
Measurement Date	DTW (ft)	GW Elev (ft)
10/25/2018	2.57	96.85
5/16/2019	2.22	97.2
Resurvey 8/27/2019		99.44
8/27/2019	3.1	96.34
11/20/2019	3.08	96.36

MW-11A (installed 10/9/18)		
Surface Elevation (ft)		99.5
Top of Casing elevation (ft)		99.37
Top of Screen Elevation (ft)		94.5
Bottom of Screen Elevation (ft)		84.5
Measurement Date	DTW (ft)	GW Elev (ft)
10/25/2018	1.22	98.15
5/16/2019	1.1	98.27
Resurvey 8/27/2019		99.48
8/27/2019	1.77	97.71
11/20/2019	1.61	97.87

MW-11B (installed 10/9/18)		
Surface Elevation (ft)		99.25
Top of Casing elevation (ft)		99.17
Top of Screen Elevation (ft)		69
Bottom of Screen Elevation (ft)		64
Measurement Date	DTW (ft)	GW Elev (ft)
10/25/2018	2.25	96.92
5/16/2019	2.25	96.92
Resurvey 8/27/2019		99.21
8/27/2019	2.83	96.38
11/20/2019	2.77	96.44

Table 3: Natural Attenuation Field Measurement

Olson Goodman/Stetsonville

Well	Date	DO	pH	Temp	Conductivity	ORP
		mg/l		°C	uS	
MW-1R						
	5/24/2017	4	7.4	9.5	1214	-40
	8/29/2017	<<1	7.09	16.2	1188	-56
	11/13/2017	<<1	6.72	10.7	928	-66
	5/7/2018	1	7.45	10.7	1837	-77
	10/25/2018	<1	7.53	12.3	1362	12
	5/16/2019	1	7.28	10.9	902	-79
	8/27/2019	1	7.6	14.6	692	39
	11/20/2019	<1	6.69	9.3	670	24
MW-2A						
	5/24/2017	<1	7.79	10.6	898	-22
	8/29/2017	<<1	7.13	18.8	805	-54
	11/13/2017	1	7.28	11.1	848	-77
	5/7/2018	<1	7.8	8	972	-127
	10/25/2018	1	7.3	13.2	839	18
	5/16/2019	2	7.71	10.3	827	-98
	8/27/2019	<1	7.7	20	750	5
	11/20/2019	1	5.91	8.2	800	75
MW-2B						
	5/24/2017	<<1	7.55	10.9	681	-37
	8/29/2017	1	7.21	12.5	724	-49
	11/13/2017	1	7.37	10.2	694	-90
	5/7/2018	1	7.63	12	686	-107
	10/25/2018	1	7.41	10.8	706	59
	5/16/2019	4	7.68	12.3	689	-111
	8/27/2019	0	7.65	13.1	725	-20
	11/20/2019	3	5.95	8.9	679	9
MW-3A						
	5/24/2017	2	7.58	10.9	584	-37
	8/29/2017	<<1	7.27	18.5	598	-56
	11/13/2017	<1	7.43	11.5	598	-68
	5/7/2018	1	8.2	11.4	621	-100
	10/25/2018	1	7.55	14.1	646	-52
	5/16/2019	<1	7.63	11	677	-92
	8/27/2019	0	7.61	20.1	560	-16
	11/20/2019	8	6.5	10.2	592	-4
MW-3B						
	5/24/2017	<<1	7.46	10.5	808	-33
	8/29/2017	1	7.25	13.7	834	-42
	11/13/2017	0	6.92	11.3	776	-128
	5/7/2018	1	7.67	13	784	-25
	10/25/2018	2	7.43	11.2	788	-45
	5/16/2019	1	7.61	12.5	815	-82
	8/27/2019	0	7.7	14.1	733	-25
	11/20/2019	1	6.4	11.1	735	-3
MW-4						
	5/24/2017	4	7.9	10.9	337	-33
	8/29/2017	0	7.41	17.8	419	-52
	11/13/2017	<<1	7.41	11.8	428	-133
	5/7/2018	1	8.13	10.8	382	-108
	10/25/2018	<1	7.42	13.1	453	62
	5/16/2019	<1	7.73	11.8	445	-84
	8/27/2019	2	7.6	18.8	403	35
	11/20/2019	0	6.47	9.5	427	-16
MW-5						
	5/24/2017	2	8.81	10.6	450	-66
	8/29/2017	2	6.82	20.2	523	-45
	11/13/2017	<<1	7.44	12.7	532	-132
	5/7/2018	2	7.77	9.7	528	-170
	10/25/2018	<1	7.63	12.4	543	-134
	5/16/2019	0	7.46	10.6	462	-114
	8/27/2019	3	7.7	18.9	371	37
	11/20/2019	1	642	9.8	411	5

Table 3: Natural Attenuation Field Measurement

Olson Goodman/Stetsonville

Well	Date	DO	pH	Temp	Conductivity	ORP
		mg/l		°C	uS	
MW-7						
	5/24/2017	<<1	7.17	11.3	1034	-29
	8/29/2017	1	6.77	18.2	1025	-31
	11/13/2017	<1	6.48	11.9	1108	-57
	5/7/2018	1	7.53	9.9	1097	-104
	10/25/2018	1	7.49	12.8	1039	-71
	5/16/2019	<1	7.29	8.8	1061	-122
	8/27/2019	0	7.4	17.4	976	64
	11/20/2019	0	6.67	9.6	1011	64
MW-7P						
	5/24/2017	0	7.19	9.8	663	-49
	8/29/2017	vehicle parked over well				
	11/13/2017	vehicle parked over well				
	5/7/2018	1	7.87	11.4	1620	-135
	10/25/2018	vehicle over well				
	5/16/2019	2	7.82	13.3	764	-210
	8/27/2019	0	7.58	13.3	915	-5
	11/20/2019	0	5.83	8.9	918	129
MW-9						
	5/24/2017	2	8.22	10.2	468	-38
	8/29/2017	<1	7.52	15.9	503	-84
	11/13/2017	<1	7.46	11.4	438	-95
	5/7/2018	2	7.91	10.7	494	-123
	10/25/2018	3	7.19	12.7	373	76
	5/16/2019	0	7.72	10.1	410	-99
	8/27/2019	1	7.7	16	333	44
	11/20/2019	1	6.69	9.5	357	-6
MW-9P						
	5/24/2017	1	7.51	9.7	763	-7
	8/29/2017	<<1	7.44	13.8	774	-50
	11/13/2017	2	6.85	10.1	730	-54
	5/7/2018	1	7.93	13.3	732	-123
	10/25/2018	3	7.3	10.2	754	20
	5/16/2019	0	7.63	13	402	-89
	8/27/2019	0	7.3	13.2	616	90
	11/20/2019	2	6.65	9.6	664	13
MW-10A						
	10/25/2018	3	7.47	13	568	-122
	5/16/2019	2	7.64	10.6	574	-42
	8/27/2019	2	7.6	17.5	546	47
	11/20/2019	0	6.71	9.4	548	9
MW-10B						
	10/25/2018	2	7.6	10.6	769	37
	5/16/2019	1	7.31	15.2	764	-103
	8/27/2019	5	7.56	13	730	16
	11/20/2019	2	6.7	9.8	737	27
MW-11A						
	10/25/2018	1	7.56	12.3	514	33
	5/16/2019	1	8.04	10.7	553	-112
	8/27/2019	1	7.7	16.8	498	25
	11/20/2019	0	6.69	8.7	494	5
MW-11B						
	10/25/2018	<1	7.44	10.3	332	-125
	5/16/2019	1	7.82	12.4	325	-92
	8/27/2019	2	7.57	12.8	302	-3
	11/20/2019	1	6.67	9.6	298	14

Table 4: Soil Analytical Results

Olson Goodman Inc
Stetsonville, WI
Meridian No. 05F807

BOLD - concentration exceeds Standards

Sample*	Sat/UnSat	PID	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total TMBs	1,2,4-TMB	1,3,5-TMB	Xylene (Total)	m&p-Xylene	o-Xylene
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Soil Standards													
NTEDC			1.6	8.02	63.8	5.52	818		219	182	260		
RCL (soil to GW)			0.005	1.57	0.027	0.659	1.107	1.3787			3.96		
October 16, 2015 Geoprobe Borings (see Figure for location)													
1: 3-4	unsaturated	70	<1	**53.1**	<1	**37.1**	**12.6**	**308**	**227**	80.5	**223**	144	79
1: 7-8	saturated	40	**0.353**	**5.15**	**0.118**	**2.11**	0.546	**18.6**	13	5.62	**14.3**	12.7	1.57
1: 11-12	saturated	20	**0.505**	0.0571	<.025	0.09	<.025	<.05	<.025	<.025	<.075	<.05	<.025
1: 15-16	saturated	10	**1.57**	0.435	**0.03**	0.14	<.025	<.05	0.0585	<.025	<.075	<.05	<.025
1:18-19	saturated	2	**0.0569**	<.025	**0.112**	<.025	<.025	0.161	0.116	0.0452	<.075	0.0576	<.025
2:3-4	unsaturated	100	**13**	**52.6**	<2.5	**116**	**243**	**965**	**712**	253	**899**	598	302
2:7-8	saturated	160	**2.46**	**1.41**	<.025	**0.767**	**7.05**	**4.56**	3.42	1.14	**7.86**	5.66	2.2
2:11-12	saturated	30	**2.85**	0.701	**0.0425**	0.423	**1.28**	1.32	0.962	0.356	2.02	1.65	0.366
2:15-16	saturated	120	**14.5**	**25.3**	**0.826**	**9.57**	**65.5**	**78.2**	57.9	20.3	**120**	91.2	28.9
3: 3-4	unsaturated	12	**1.9**	**2.57**	<.025	**2.89**	0.243	**9.55**	7.19	2.34	**11.2**	8.34	2.91
3: 7-8	saturated	1	**0.0597**	0.0868	<.025	0.0402	<.025	<.05	0.479	<.025	<.075	<.05	<.025
3:11-12	saturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
4: 3-4	unsaturated	50	**2.88**	0.584	<.025	0.0947	0.198	0.974	0.724	0.251	2.51	1.74	0.766
4: 7-8	saturated	150	**23.2**	**40.6**	**1**	**14.7**	**133**	**119**	89.1	30.3	**208**	153	55.2
4: 11-12	saturated	25	<.025	<.025	**0.0628**	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
5: 3-4	unsaturated	100	**3.28**	**19.4**	<.625	**35.1**	**86.6**	**341**	**251**	90.1	**399**	238	161
5: 7-8	saturated	170	**4.35**	**13.8**	**0.406**	**5.57**	**43.1**	**493**	36.6	12.7	**69.9**	49.2	20.7
5: 11-12	saturated	100	**4.23**	0.79	**0.318**	0.345	**2.25**	**1.49**	1.11	0.383	3.55	2.7	0.849
6: 3-4	unsaturated	0	<.025	0.055	<.025	<.025	0.17	0.138	0.0973	0.0404	0.295	0.223	0.0727
6: 7-8	saturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
6: 11-12	saturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
7: 3-4	unsaturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
7: 7-8	saturated	25	<.05	**2.88**	**0.353**	**1.86**	0.108	**9.97**	5.87	4.1	3.13	3.05	0.0812
7: 11-12	saturated	50	<.05	**2.56**	**0.409**	**1.36**	0.209	**8.13**	3.96	4.17	3.28	3.07	0.211
8: 3-4	unsaturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
8: 7-8	saturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025
9: 3-4	unsaturated	0	<.0255	<.0255	<.025	<.025	<.025	<.051	<.0255	<.0255	<.0765	<.051	<.0255
9: 7-8	saturated	0	<.025	<.025	<.025	<.025	<.025	<.05	0.0331	<.025	<.075	<.05	<.025
9: 11-12	saturated	0	<.025	<.025	<.025	<.025	<.025	<.05	<.025	<.025	<.075	<.05	<.025

* 5: 3-4 refers to soil boring GP-5: depth interval 3 -4 ft below grade

Excavation Confirmation Samples (11/1/16) (see Figure for location)

		Depth											
NE	unsaturated	3	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
NW	unsaturated	3	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
WN	unsaturated	3	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
WS	unsaturated	3	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
SW	unsaturated	3	<500	**5.37**	<500	**10.2**	**2.5**	68.5	49.6	18.9	**23.3**	15.2	8.1
SE	unsaturated	3	**.121J**	0.872	<.0625	**3.28**	0.642	31.1	19.2	12	**9.94**	5.68	4.26
EN	unsaturated	3	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
ES	unsaturated	3	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
FLOOR	unsaturated	12	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025

Monitoring Well Borings (April 2017)

2:2-4	unsaturated	2-4	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
2:6-8	saturated	6-8	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
2:10-12	saturated	10-12	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
2:15-17	saturated	15-17	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
2:20-22	saturated	20-22	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
3:2-4	unsaturated	2-4	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
3:6-8	saturated	6-8	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
3:10-12	saturated	10-12	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
3:15-17	saturated	15-17	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
3:20-22	saturated	20-22	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
4:2-4	unsaturated	2-4	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
4:6-8	saturated	6-8	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
4:10-12	saturated	10-12	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
5:2-4	unsaturated	2-4	<.025	0.131	<.025	0.518	<.025	0.926	0.752	0.175	0.223	0.146	0.0768
5:6-8	saturated	6-8	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025
5:13-15	saturated	13-15	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.025	<.075	<.05	<.025

Table 5: Subslab Vapor Samples

Olson Goodman Inc
Stetsonville, WI
Meridian No. 05F807

Vapor Probe - collected next to MW-1 (October 2015)

Parameter	Result*	Units
Benzene	<3.4	ug/m^3
Ethylbenzene	<11.8	ug/m^3
MTBE	<8.4	ug/m^3
Toluene	<4.3	ug/m^3
1,2,4-TMB	<3.5	ug/m^3
1,3,5-TMB	<5.1	ug/m^3
m&p-Xylene	<21.9	ug/m^3
o-Xylene	<9.8	ug/m^3

* Soils very wet caused water to enter probe/tubing. Sample may not be representative of soil vapor

Cox-Colvin Vapor Port samples (subslab samples from 108 Mink Ave)

Boring	LEL	Oxygen	PID	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-Xylene	o-Xylene	1,2-DCA	EDB
Units		%		ug/m3	ug/m3	ug/m3		ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Vapor Risk Screening Levels**														
Residential Indoor Air				3.6	11	110	0.83	5200	63	63	100	100	1.1	
Residential - Subslab				120	370	3700	28	170000	2100	2100	3300	3300	37	
Small Commerical - Subslab				530	1600	16000	120	730000	8700	8700	15000	15000	160	
VP-1														
11/14/2017	0	20.9	0	<.24	2.4	<1.1	<.96	2.5	3.2	1.6J	9.5	2.8	<.32	<.54
3/9/2018	0	20.9	0	<.25	2.4	<1.1	<.98	<.26	7	<.68	13	2.2	<.32	<.55
VP-2														
11/14/2017	0	20.9	0	<.23	<.27	<1	<.93	1.1J	.91J	<.64	3	2.9	<.31	<.52
3/9/2018	0	20.9	0	<.32	1.1J	<1.4	<1.3	<.34	1.8J	<.87	6	<.79	<.42	<.71

** Vapor Risk Screening Levels based on June 2017 US EPA Regional Screening Level Tables.

FIGURES

Figure 1: Topographic Map
Olson Goodman/Stetsonville

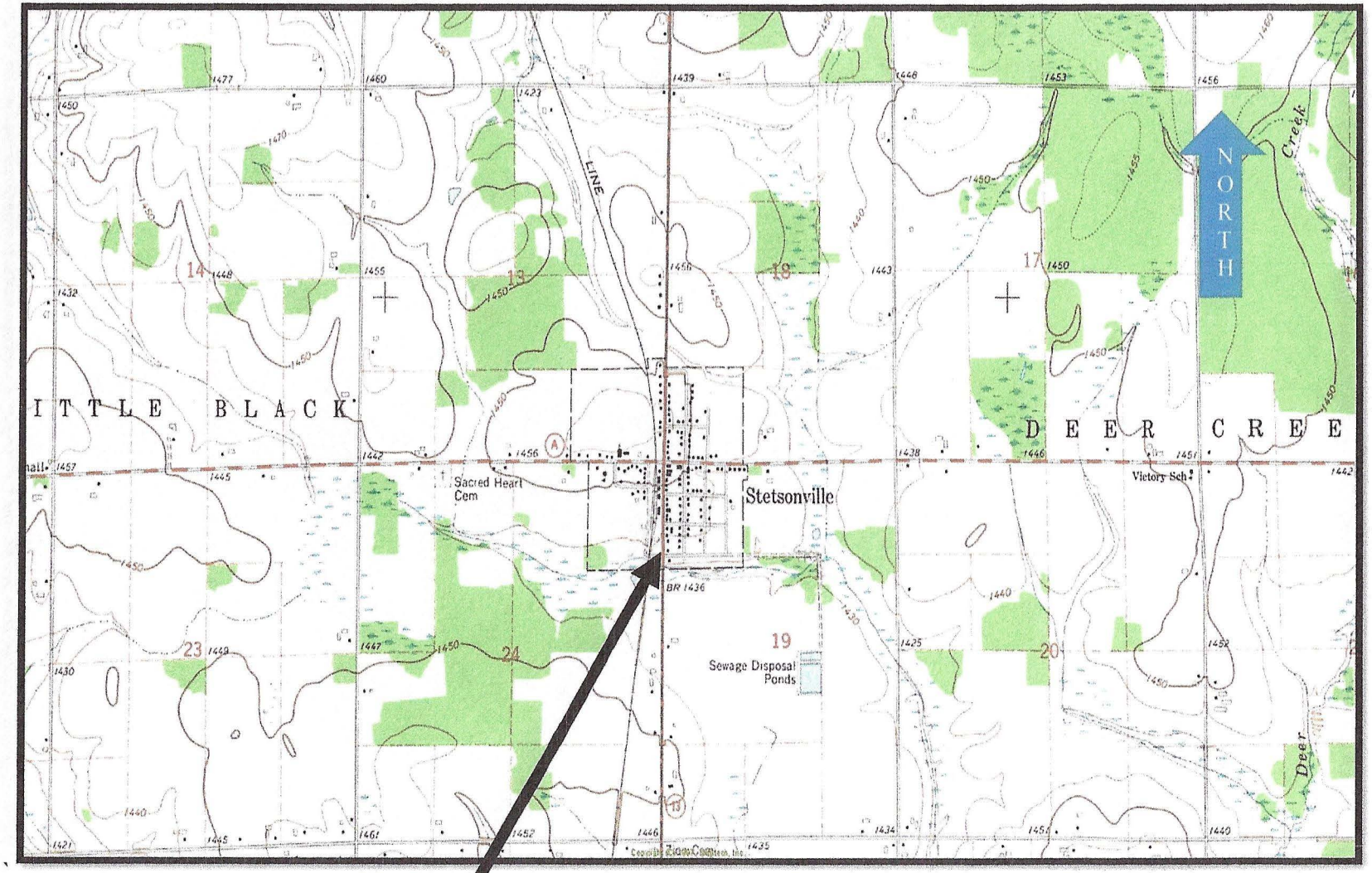

Figure 2
Site Map

Olson & Goodman Inc.
Stetsonville, Wisconsin

Meridian Environmental Consulting, LLC
2711 N. Eleo • Road Fall Creek, WI 54742 • (715) 832-6608

Date: 9/6/19 | Project No.

File: OG_StetsonvilleWI(2000).dwg Date: 9/6/19

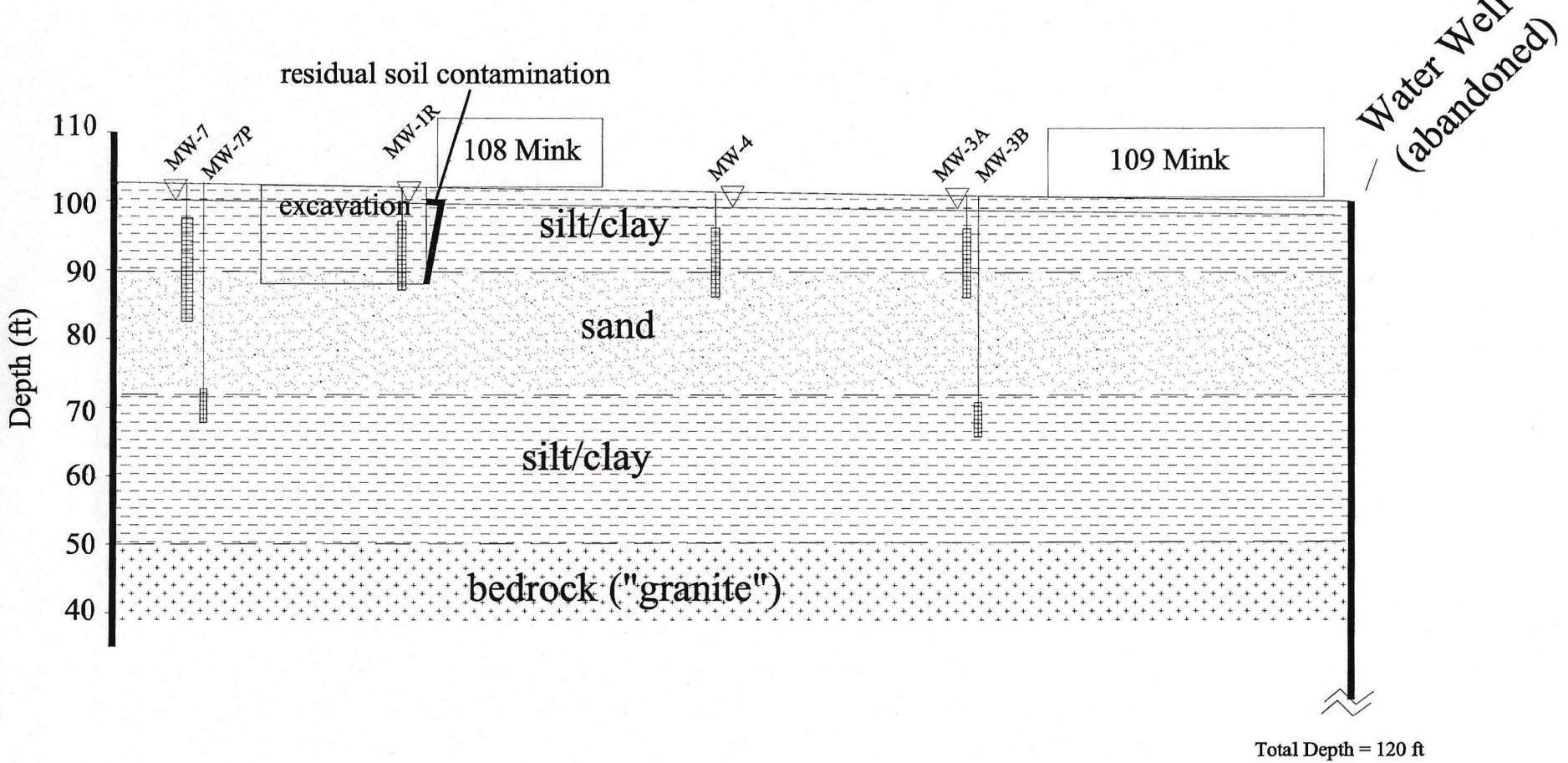

Figure 3
Cross-Section
Olson Goodman
Stetsonville, WI

PROJECT NO.
05F807

DATE
1/20/20

Meridian Environmental Consulting, LLC

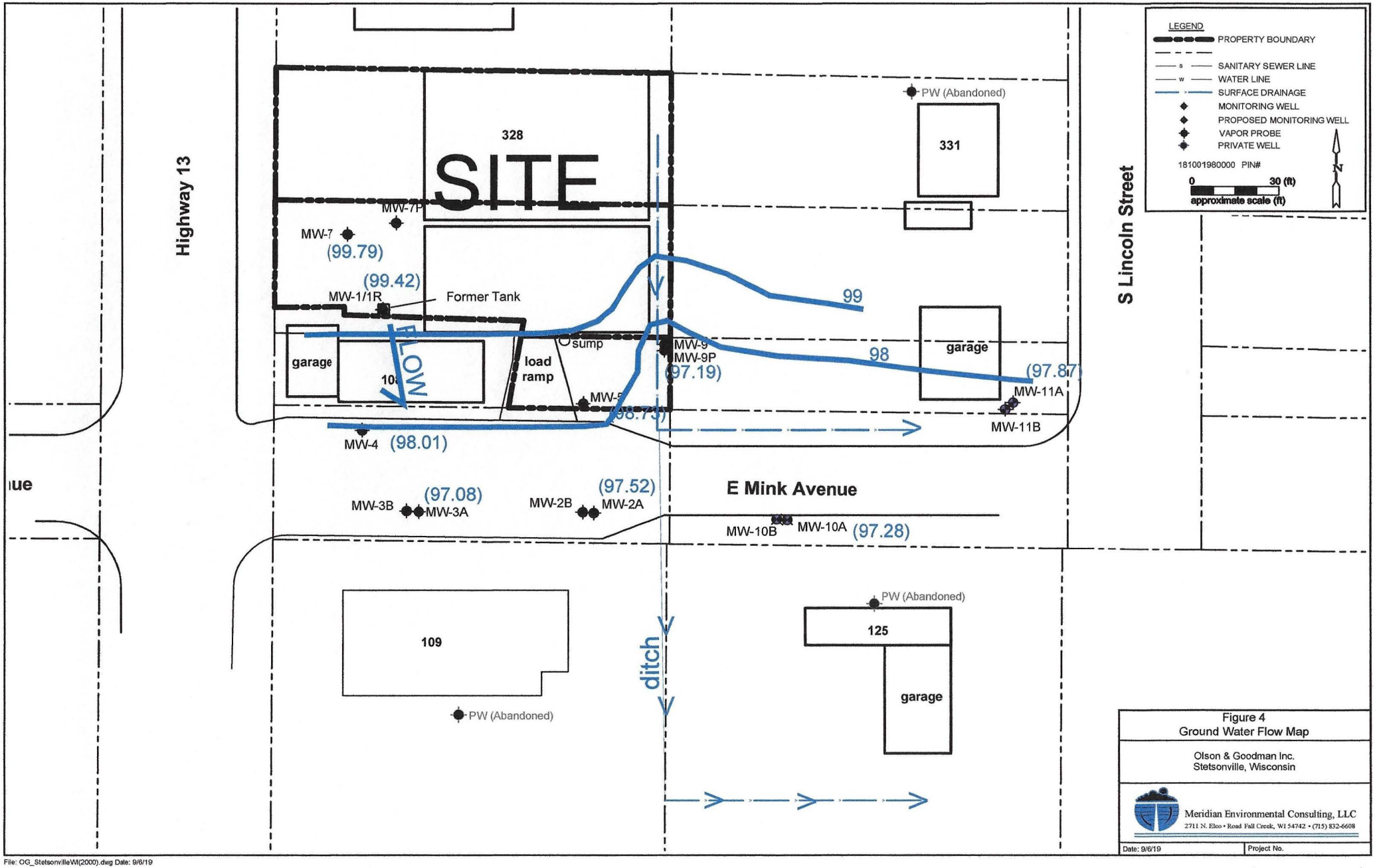

Figure 4
Ground Water Flow Map

Olson & Goodman Inc.
Stetsonville, Wisconsin

Meridian Environmental Consulting, LLC
2711 N. Elco • Road Fall Creek, WI 54742 • (715) 832-6608

Date: 9/6/19 | Project No.

File: OG_StetsonvilleWI(2000).dwg Date: 9/6/19

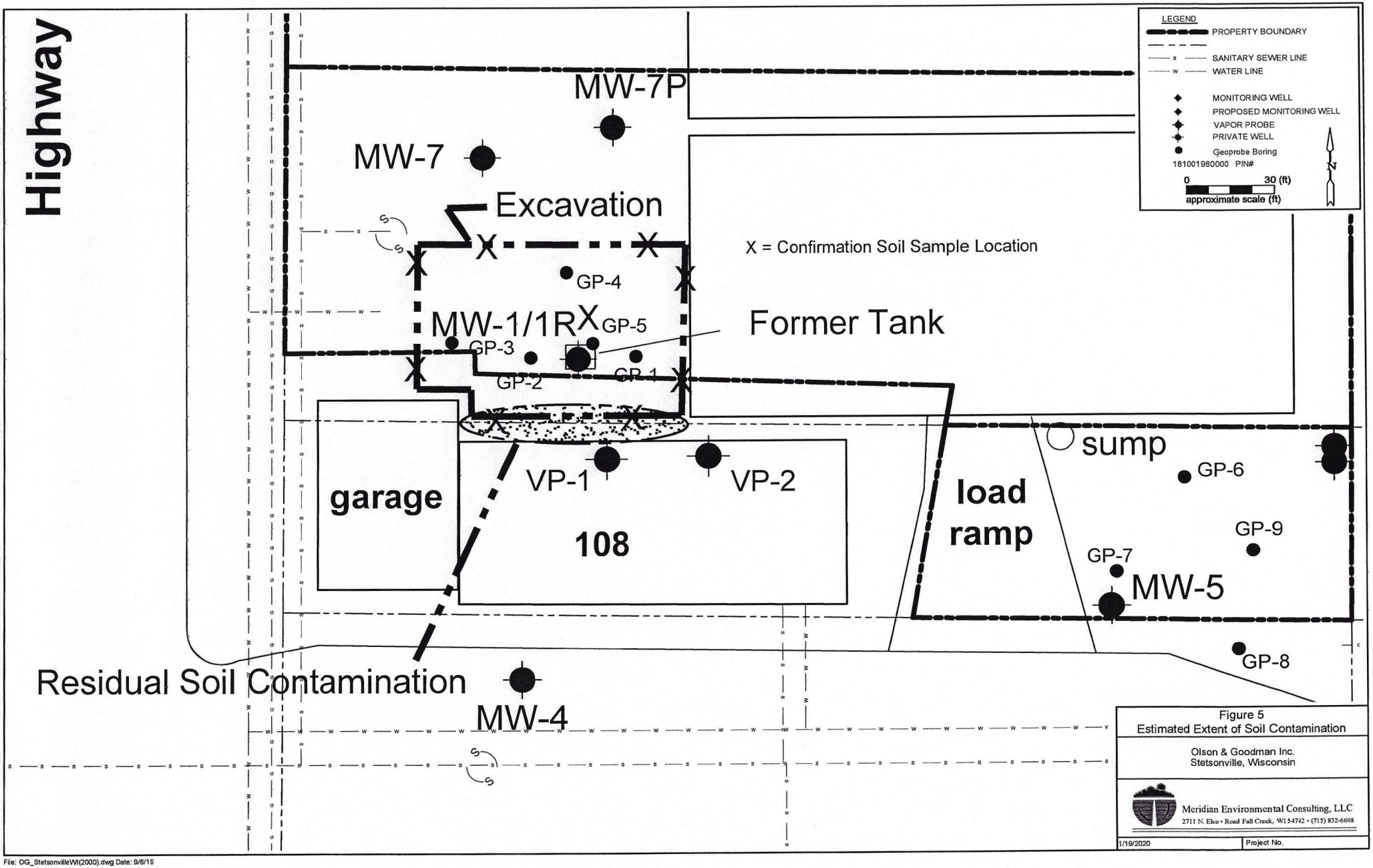

Figure 5
Estimated Extent of Soil Contamination

Olson & Goodman Inc.
Stetsonville, Wisconsin

Meridian Environmental Consulting, LLC
2711 N. Elco • Road Fall Creek, WI 54742 • (715) 832-6608

1/19/2020 | Project No.

File: OG_StetsonvilleWI(2000).dwg Date: 9/6/19

APPENDIX A

Ground Water Sampling Laboratory Reports

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

September 04, 2019

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSON GOODMAN
Pace Project No.: 40193941

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: OLSON GOODMAN
Pace Project No.: 40193941

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

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

SAMPLE SUMMARY

Project: OLSON GOODMAN
Pace Project No.: 40193941

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40193941001	**MW-1R**	Water	08/27/19 00:00	08/29/19 09:30
40193941002	**MW-2A**	Water	08/27/19 00:00	08/29/19 09:30
40193941003	**MW-2B**	Water	08/27/19 00:00	08/29/19 09:30
40193941004	**MW-3A**	Water	08/27/19 00:00	08/29/19 09:30
40193941005	**MW-3B**	Water	08/27/19 00:00	08/29/19 09:30
40193941006	**MW-4**	Water	08/27/19 00:00	08/29/19 09:30
40193941007	**MW-5**	Water	08/27/19 00:00	08/29/19 09:30
40193941008	**MW-7**	Water	08/27/19 00:00	08/29/19 09:30
40193941009	**MW-7P**	Water	08/27/19 00:00	08/29/19 09:30
40193941010	**MW-9**	Water	08/27/19 00:00	08/29/19 09:30
40193941011	**MW-9P**	Water	08/27/19 00:00	08/29/19 09:30
40193941012	**MW-10A**	Water	08/27/19 00:00	08/29/19 09:30
40193941013	**MW-10B**	Water	08/27/19 00:00	08/29/19 09:30
40193941014	**MW-11A**	Water	08/27/19 00:00	08/29/19 09:30
40193941015	**MW-11B**	Water	08/27/19 00:00	08/29/19 09:30
40193941016	**TRIP BLANK**	Water	08/27/19 00:00	08/29/19 09:30

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

SAMPLE ANALYTE COUNT

Project: OLSON GOODMAN
Pace Project No.: 40193941

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40193941001	**MW-1R**	EPA 8260	LAP	12	PASI-G
40193941002	**MW-2A**	EPA 8260	SMT	12	PASI-G
40193941003	**MW-2B**	EPA 8260	SMT	12	PASI-G
40193941004	**MW-3A**	EPA 8260	SMT	12	PASI-G
40193941005	**MW-3B**	EPA 8260	SMT	12	PASI-G
40193941006	**MW-4**	EPA 8260	SMT	12	PASI-G
40193941007	**MW-5**	EPA 8260	SMT	12	PASI-G
40193941008	**MW-7**	EPA 8260	SMT	12	PASI-G
40193941009	**MW-7P**	EPA 8260	SMT	12	PASI-G
40193941010	**MW-9**	EPA 8260	SMT	12	PASI-G
40193941011	**MW-9P**	EPA 8260	SMT	12	PASI-G
40193941012	**MW-10A**	EPA 8260	SMT	12	PASI-G
40193941013	**MW-10B**	EPA 8260	LAP	12	PASI-G
40193941014	**MW-11A**	EPA 8260	LAP	12	PASI-G
40193941015	**MW-11B**	EPA 8260	LAP	12	PASI-G
40193941016	**TRIP BLANK**	EPA 8260	LAP	12	PASI-G

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

PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40193941

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Meridian Environmental Consulting, LLC
Date: September 04, 2019

General Information:
16 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-1R **Lab ID: 40193941001** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.29J**	ug/L	1.0	0.25	1		09/03/19 15:12	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/03/19 15:12	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/03/19 15:12	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/03/19 15:12	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/03/19 15:12	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/03/19 15:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/03/19 15:12	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/03/19 15:12	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/03/19 15:12	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		09/03/19 15:12	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		09/03/19 15:12	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		09/03/19 15:12	460-00-4	

Sample: MW-2A **Lab ID: 40193941002** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1.1**	ug/L	1.0	0.25	1		08/30/19 17:12	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 17:12	100-41-4	
Methyl-tert-butyl ether	**2.8J**	ug/L	4.2	1.2	1		08/30/19 17:12	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 17:12	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 17:12	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 17:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 17:12	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 17:12	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 17:12	95-47-6	
Surrogates									
Dibromofluoromethane (S)	106	%	70-130		1		08/30/19 17:12	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/30/19 17:12	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		08/30/19 17:12	460-00-4	

Sample: MW-2B **Lab ID: 40193941003** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 17:34	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 17:34	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 17:34	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 17:34	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 17:34	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-2B **Lab ID: 40193941003** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 17:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 17:34	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 17:34	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 17:34	95-47-6	
Surrogates									
Dibromofluoromethane (S)	106	%	70-130		1		08/30/19 17:34	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/30/19 17:34	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		08/30/19 17:34	460-00-4	

Sample: MW-3A **Lab ID: 40193941004** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 17:55	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 17:55	100-41-4	
Methyl-tert-butyl ether	**5.8**	ug/L	4.2	1.2	1		08/30/19 17:55	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 17:55	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 17:55	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 17:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 17:55	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 17:55	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 17:55	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	70-130		1		08/30/19 17:55	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/30/19 17:55	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		08/30/19 17:55	460-00-4	

Sample: MW-3B **Lab ID: 40193941005** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 18:17	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 18:17	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 18:17	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 18:17	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 18:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 18:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 18:17	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 18:17	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 18:17	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-3B **Lab ID: 40193941005** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		08/30/19 18:17	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		08/30/19 18:17	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		08/30/19 18:17	460-00-4	

Sample: MW-4 **Lab ID: 40193941006** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 13:59	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 13:59	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 13:59	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 13:59	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 13:59	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 13:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 13:59	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 13:59	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 13:59	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/30/19 13:59	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/30/19 13:59	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		08/30/19 13:59	460-00-4	

Sample: MW-5 **Lab ID: 40193941007** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 18:38	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 18:38	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 18:38	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 18:38	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 18:38	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 18:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 18:38	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 18:38	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 18:38	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/30/19 18:38	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/30/19 18:38	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		08/30/19 18:38	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-7 **Lab ID: 40193941008** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 19:00	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 19:00	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 19:00	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 19:00	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 19:00	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 19:00	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 19:00	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 19:00	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 19:00	95-47-6	
Surrogates									
Dibromofluoromethane (S)	106	%	70-130		1		08/30/19 19:00	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/30/19 19:00	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		08/30/19 19:00	460-00-4	

Sample: MW-7P **Lab ID: 40193941009** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**6.8**	ug/L	1.0	0.25	1		08/30/19 19:21	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 19:21	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 19:21	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 19:21	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 19:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 19:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 19:21	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 19:21	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 19:21	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/30/19 19:21	1868-53-7	HS
Toluene-d8 (S)	95	%	70-130		1		08/30/19 19:21	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		08/30/19 19:21	460-00-4	

Sample: MW-9 **Lab ID: 40193941010** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 19:43	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 19:43	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 19:43	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 19:43	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 19:43	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-9 **Lab ID: 40193941010** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 19:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 19:43	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 19:43	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 19:43	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/30/19 19:43	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/30/19 19:43	2037-26-5	
4-Bromofluorobenzene (S)	92	%	70-130		1		08/30/19 19:43	460-00-4	

Sample: MW-9P **Lab ID: 40193941011** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 20:04	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 20:04	100-41-4	
Methyl-tert-butyl ether	**10.3**	ug/L	4.2	1.2	1		08/30/19 20:04	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 20:04	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 20:04	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 20:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 20:04	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 20:04	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 20:04	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/30/19 20:04	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/30/19 20:04	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		08/30/19 20:04	460-00-4	

Sample: MW-10A **Lab ID: 40193941012** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		08/30/19 20:26	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		08/30/19 20:26	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		08/30/19 20:26	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		08/30/19 20:26	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		08/30/19 20:26	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		08/30/19 20:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		08/30/19 20:26	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		08/30/19 20:26	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		08/30/19 20:26	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-10A **Lab ID: 40193941012** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		08/30/19 20:26	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		08/30/19 20:26	2037-26-5	
4-Bromofluorobenzene (S)	91	%	70-130		1		08/30/19 20:26	460-00-4	

Sample: MW-10B **Lab ID: 40193941013** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/03/19 15:34	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/03/19 15:34	100-41-4	
Methyl-tert-butyl ether	**1.9J**	ug/L	4.2	1.2	1		09/03/19 15:34	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/03/19 15:34	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/03/19 15:34	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/03/19 15:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/03/19 15:34	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/03/19 15:34	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/03/19 15:34	95-47-6	
Surrogates									
Dibromofluoromethane (S)	106	%	70-130		1		09/03/19 15:34	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/03/19 15:34	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		09/03/19 15:34	460-00-4	

Sample: MW-11A **Lab ID: 40193941014** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/03/19 15:55	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/03/19 15:55	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/03/19 15:55	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/03/19 15:55	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/03/19 15:55	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/03/19 15:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/03/19 15:55	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/03/19 15:55	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/03/19 15:55	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		09/03/19 15:55	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		09/03/19 15:55	2037-26-5	
4-Bromofluorobenzene (S)	95	%	70-130		1		09/03/19 15:55	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40193941

Sample: MW-11B **Lab ID: 40193941015** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/03/19 18:26	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/03/19 18:26	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/03/19 18:26	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/03/19 18:26	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/03/19 18:26	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/03/19 18:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/03/19 18:26	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/03/19 18:26	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/03/19 18:26	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		09/03/19 18:26	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/03/19 18:26	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		09/03/19 18:26	460-00-4	

Sample: TRIP BLANK **Lab ID: 40193941016** Collected: 08/27/19 00:00 Received: 08/29/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/03/19 14:08	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/03/19 14:08	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/03/19 14:08	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/03/19 14:08	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/03/19 14:08	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/03/19 14:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/03/19 14:08	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/03/19 14:08	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/03/19 14:08	95-47-6	
Surrogates									
Dibromofluoromethane (S)	107	%	70-130		1		09/03/19 14:08	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		09/03/19 14:08	2037-26-5	
4-Bromofluorobenzene (S)	96	%	70-130		1		09/03/19 14:08	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40193941

QC Batch: 332327 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40193941002, 40193941003, 40193941004, 40193941005, 40193941006, 40193941007, 40193941008, 40193941009, 40193941010, 40193941011, 40193941012

METHOD BLANK: 1928490 Matrix: Water
Associated Lab Samples: 40193941002, 40193941003, 40193941004, 40193941005, 40193941006, 40193941007, 40193941008, 40193941009, 40193941010, 40193941011, 40193941012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	08/30/19 11:07	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	08/30/19 11:07	
Benzene	ug/L	<0.25	1.0	08/30/19 11:07	
Ethylbenzene	ug/L	<0.22	1.0	08/30/19 11:07	
m&p-Xylene	ug/L	<0.47	2.0	08/30/19 11:07	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	08/30/19 11:07	
Naphthalene	ug/L	<1.2	5.0	08/30/19 11:07	
o-Xylene	ug/L	<0.26	1.0	08/30/19 11:07	
Toluene	ug/L	<0.17	5.0	08/30/19 11:07	
4-Bromofluorobenzene (S)	%	92	70-130	08/30/19 11:07	
Dibromofluoromethane (S)	%	108	70-130	08/30/19 11:07	
Toluene-d8 (S)	%	95	70-130	08/30/19 11:07	

LABORATORY CONTROL SAMPLE: 1928491

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	52.5	105	70-130	
Ethylbenzene	ug/L	50	52.4	105	80-124	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	42.4	85	54-137	
o-Xylene	ug/L	50	50.9	102	70-130	
Toluene	ug/L	50	51.3	103	80-126	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			107	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1928812 1928813

Parameter	Units	40193941006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	52.1	54.5	104	109	70-130	4	20	
Ethylbenzene	ug/L	<0.22	50	50	51.8	52.9	104	106	80-125	2	20	
m&p-Xylene	ug/L	<0.47	100	100	102	104	102	104	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	42.2	44.0	84	88	51-145	4	20	
o-Xylene	ug/L	<0.26	50	50	49.9	51.6	100	103	70-130	3	20	
Toluene	ug/L	<0.17	50	50	51.2	52.0	102	104	80-131	2	20	
4-Bromofluorobenzene (S)	%						98	97	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40193941

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1928812			1928813							
Parameter	Units	40193941006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Dibromofluoromethane (S)	%						104	107	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40193941

QC Batch: 332517 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40193941001, 40193941013, 40193941014, 40193941015, 40193941016

METHOD BLANK: 1929916 Matrix: Water
Associated Lab Samples: 40193941001, 40193941013, 40193941014, 40193941015, 40193941016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/03/19 11:37	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/03/19 11:37	
Benzene	ug/L	<0.25	1.0	09/03/19 11:37	
Ethylbenzene	ug/L	<0.22	1.0	09/03/19 11:37	
m&p-Xylene	ug/L	<0.47	2.0	09/03/19 11:37	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/03/19 11:37	
Naphthalene	ug/L	<1.2	5.0	09/03/19 11:37	
o-Xylene	ug/L	<0.26	1.0	09/03/19 11:37	
Toluene	ug/L	<0.17	5.0	09/03/19 11:37	
4-Bromofluorobenzene (S)	%	92	70-130	09/03/19 11:37	
Dibromofluoromethane (S)	%	108	70-130	09/03/19 11:37	
Toluene-d8 (S)	%	94	70-130	09/03/19 11:37	

LABORATORY CONTROL SAMPLE: 1929917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	55.6	111	70-130	
Ethylbenzene	ug/L	50	54.0	108	80-124	
m&p-Xylene	ug/L	100	108	108	70-130	
Methyl-tert-butyl ether	ug/L	50	40.5	81	54-137	
o-Xylene	ug/L	50	53.0	106	70-130	
Toluene	ug/L	50	52.5	105	80-126	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1930290 1930291

Parameter	Units	40194150010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	53.3	54.9	107	110	70-130	3	20	
Ethylbenzene	ug/L	<0.22	50	50	53.2	53.7	106	107	80-125	1	20	
m&p-Xylene	ug/L	<0.47	100	100	106	107	106	107	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.3	40.8	79	82	51-145	4	20	
o-Xylene	ug/L	<0.26	50	50	52.0	52.6	104	105	70-130	1	20	
Toluene	ug/L	<0.17	50	50	52.2	52.5	104	105	80-131	0	20	
4-Bromofluorobenzene (S)	%						104	103	70-130			
Dibromofluoromethane (S)	%						106	107	70-130			HS

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40193941

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1930290 1930291

Parameter	Units	40194150010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						96	95	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: OLSON GOODMAN
Pace Project No.: 40193941

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSON GOODMAN
Pace Project No.: 40193941

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40193941001	**MW-1R**	EPA 8260	332517		
40193941002	**MW-2A**	EPA 8260	332327		
40193941003	**MW-2B**	EPA 8260	332327		
40193941004	**MW-3A**	EPA 8260	332327		
40193941005	**MW-3B**	EPA 8260	332327		
40193941006	**MW-4**	EPA 8260	332327		
40193941007	**MW-5**	EPA 8260	332327		
40193941008	**MW-7**	EPA 8260	332327		
40193941009	**MW-7P**	EPA 8260	332327		
40193941010	**MW-9**	EPA 8260	332327		
40193941011	**MW-9P**	EPA 8260	332327		
40193941012	**MW-10A**	EPA 8260	332327		
40193941013	**MW-10B**	EPA 8260	332517		
40193941014	**MW-11A**	EPA 8260	332517		
40193941015	**MW-11B**	EPA 8260	332517		
40193941016	**TRIP BLANK**	EPA 8260	332517		

Pace Analytical®
www.pacelabs.com

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

Page 1 of 2

40193941

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

(Please Print Clearly)	
Company Name:	Meridian Env Co Llc
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715 832 6608
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian
Mail To Address:	Fall Creek 54742
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: Chlorinated Solvents	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1R	8/28	07	W			X			
002	-2A		KJ							
003	-2B									
004	-3A									
005	-3B									
006	-4									
007	-5									
008	-7									
009	-7P									
010	-9									
011	-9P									
012	-10A									
013	-10B									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

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:
	8/28/19	FedEx	8/28/19
FedEx	08/29/19 09:30	Race	08/29/19 09:30

PACE Project No. 40193941

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / (Not Present)
Intact / (Not Intact)

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

40193941

Pace Analytical®
www.pacelabs.com

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

(Please Print Clearly)	
Company Name:	Meridian Env Grp
Branch/Location:	
Project Contact:	Ken Shinko
Phone:	715 832 6608
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shinko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shinko
Mail To Company:	Meridian
Mail To Address:	Fall Creek 54742
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC+naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	MW-11A	8/27		W			X			
015	MW-11B	↓		↓			X			
016	Trip Blank									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

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:
	8/28/19	FedEx	8/28/19
FedEx	08/29/19 09:30	Pace	08/29/19 09:30

PACE Project No. 40193941

Receipt Temp = 2.0I °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Preservation Receipt Form

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

Client Name: Meridian Project # 40193941

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

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

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3									3						2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		3									1						2.5 / 5 / 10
012																		3															2.5 / 5 / 10
013																		3															2.5 / 5 / 10
014																		3															2.5 / 5 / 10
015																		3															2.5 / 5 / 10
016																		2															2.5 / 5 / 10
017																																	2.5 / 5 / 10
018									NSC	08/29/19																							2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	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:	

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

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40193941**

40193941

Client Name: Meridian

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

Tracking #: 789436497580

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: ROI /Corr: _____

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

Person examining contents:
Date: 08/29/19
Initials: MSC

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. No Sample times, or Trip Blank MSC 08/29/19
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. No time MSC 08/29/19
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. MSC 08/29/19
-Includes date/time/ID/Analysis Matrix: W		No MSC 08/29/19 date or times on samples ID's only.
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 427		Trip Blank MSC 08/29/19 added to COC by lab MSC 08/29/19

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 8/29/19

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

November 27, 2019

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSON GOODMAN
Pace Project No.: 40199783

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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CERTIFICATIONS

Project: OLSON GOODMAN
Pace Project No.: 40199783

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

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

SAMPLE SUMMARY

Project: OLSON GOODMAN
Pace Project No.: 40199783

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40199783001	**MW-1R**	Water	11/20/19 00:00	11/22/19 09:50
40199783002	**MW-2A**	Water	11/20/19 00:00	11/22/19 09:50
40199783003	**MW-2B**	Water	11/20/19 00:00	11/22/19 09:50
40199783004	**MW-3A**	Water	11/20/19 00:00	11/22/19 09:50
40199783005	**MW-3B**	Water	11/20/19 00:00	11/22/19 09:50
40199783006	**MW-4**	Water	11/20/19 00:00	11/22/19 09:50
40199783007	**MW-5**	Water	11/20/19 00:00	11/22/19 09:50
40199783008	**MW-7**	Water	11/20/19 00:00	11/22/19 09:50
40199783009	**MW-9**	Water	11/20/19 00:00	11/22/19 09:50
40199783010	**MW-9P**	Water	11/20/19 00:00	11/22/19 09:50
40199783011	**MW-10A**	Water	11/20/19 00:00	11/22/19 09:50
40199783012	**MW-10B**	Water	11/20/19 00:00	11/22/19 09:50
40199783013	**MW-11A**	Water	11/20/19 00:00	11/22/19 09:50
40199783014	**MW-11B**	Water	11/20/19 00:00	11/22/19 09:50
40199783015	**TRIP BLANK**	Water	11/20/19 00:00	11/22/19 09:50

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SAMPLE ANALYTE COUNT

Project: OLSON GOODMAN
Pace Project No.: 40199783

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199783001	**MW-1R**	EPA 8260	LAP	12	PASI-G
40199783002	**MW-2A**	EPA 8260	LAP	12	PASI-G
40199783003	**MW-2B**	EPA 8260	LAP	12	PASI-G
40199783004	**MW-3A**	EPA 8260	LAP	12	PASI-G
40199783005	**MW-3B**	EPA 8260	LAP	12	PASI-G
40199783006	**MW-4**	EPA 8260	LAP	12	PASI-G
40199783007	**MW-5**	EPA 8260	LAP	12	PASI-G
40199783008	**MW-7**	EPA 8260	LAP	12	PASI-G
40199783009	**MW-9**	EPA 8260	LAP	12	PASI-G
40199783010	**MW-9P**	EPA 8260	LAP	12	PASI-G
40199783011	**MW-10A**	EPA 8260	LAP	12	PASI-G
40199783012	**MW-10B**	EPA 8260	LAP	12	PASI-G
40199783013	**MW-11A**	EPA 8260	LAP	12	PASI-G
40199783014	**MW-11B**	EPA 8260	LAP	12	PASI-G
40199783015	**TRIP BLANK**	EPA 8260	LAP	12	PASI-G

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PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40199783

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Meridian Environmental Consulting, LLC
Date: November 27, 2019

General Information:
15 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
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(920)469-2436

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: MW-1R **Lab ID: 40199783001** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 16:30	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 16:30	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 16:30	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 16:30	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 16:30	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 16:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 16:30	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 16:30	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 16:30	95-47-6	
Surrogates									
Dibromofluoromethane (S)	82	%	70-130		1		11/25/19 16:30	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/25/19 16:30	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		11/25/19 16:30	460-00-4	

Sample: MW-2A **Lab ID: 40199783002** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**0.54J**	ug/L	1.0	0.25	1		11/25/19 16:53	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 16:53	100-41-4	
Methyl-tert-butyl ether	**3.8J**	ug/L	4.2	1.2	1		11/25/19 16:53	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 16:53	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 16:53	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 16:53	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 16:53	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 16:53	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 16:53	95-47-6	
Surrogates									
Dibromofluoromethane (S)	88	%	70-130		1		11/25/19 16:53	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/25/19 16:53	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/25/19 16:53	460-00-4	

Sample: MW-2B **Lab ID: 40199783003** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 17:17	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 17:17	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 17:17	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 17:17	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 17:17	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: MW-2B **Lab ID: 40199783003** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 17:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 17:17	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 17:17	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 17:17	95-47-6	
Surrogates									
Dibromofluoromethane (S)	83	%	70-130		1		11/25/19 17:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/25/19 17:17	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/25/19 17:17	460-00-4	

Sample: MW-3A **Lab ID: 40199783004** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/26/19 07:49	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/26/19 07:49	100-41-4	
Methyl-tert-butyl ether	**4.1J**	ug/L	4.2	1.2	1		11/26/19 07:49	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/26/19 07:49	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/26/19 07:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/26/19 07:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/26/19 07:49	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/26/19 07:49	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/26/19 07:49	95-47-6	
Surrogates									
Dibromofluoromethane (S)	86	%	70-130		1		11/26/19 07:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		11/26/19 07:49	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/26/19 07:49	460-00-4	

Sample: MW-3B **Lab ID: 40199783005** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 17:41	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 17:41	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 17:41	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 17:41	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 17:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 17:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 17:41	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 17:41	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 17:41	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: MW-3B **Lab ID: 40199783005** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	83	%	70-130		1		11/25/19 17:41	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/25/19 17:41	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		11/25/19 17:41	460-00-4	

Sample: MW-4 **Lab ID: 40199783006** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 18:04	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 18:04	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 18:04	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 18:04	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 18:04	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 18:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 18:04	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 18:04	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 18:04	95-47-6	
Surrogates									
Dibromofluoromethane (S)	85	%	70-130		1		11/25/19 18:04	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		11/25/19 18:04	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		11/25/19 18:04	460-00-4	

Sample: MW-5 **Lab ID: 40199783007** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 18:28	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 18:28	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 18:28	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 18:28	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 18:28	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 18:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 18:28	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 18:28	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 18:28	95-47-6	
Surrogates									
Dibromofluoromethane (S)	86	%	70-130		1		11/25/19 18:28	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		11/25/19 18:28	2037-26-5	
4-Bromofluorobenzene (S)	110	%	70-130		1		11/25/19 18:28	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: MW-7 **Lab ID: 40199783008** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 18:51	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 18:51	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 18:51	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 18:51	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 18:51	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 18:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 18:51	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 18:51	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 18:51	95-47-6	
Surrogates									
Dibromofluoromethane (S)	89	%	70-130		1		11/25/19 18:51	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		11/25/19 18:51	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		11/25/19 18:51	460-00-4	

Sample: MW-9 **Lab ID: 40199783009** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 19:15	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 19:15	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 19:15	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 19:15	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 19:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 19:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 19:15	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 19:15	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 19:15	95-47-6	
Surrogates									
Dibromofluoromethane (S)	89	%	70-130		1		11/25/19 19:15	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/25/19 19:15	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/25/19 19:15	460-00-4	

Sample: MW-9P **Lab ID: 40199783010** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 19:39	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 19:39	100-41-4	
Methyl-tert-butyl ether	**7.3**	ug/L	4.2	1.2	1		11/25/19 19:39	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 19:39	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 19:39	108-88-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: MW-9P **Lab ID: 40199783010** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 19:39	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 19:39	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 19:39	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 19:39	95-47-6	
Surrogates									
Dibromofluoromethane (S)	89	%	70-130		1		11/25/19 19:39	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/25/19 19:39	2037-26-5	
4-Bromofluorobenzene (S)	108	%	70-130		1		11/25/19 19:39	460-00-4	

Sample: MW-10A **Lab ID: 40199783011** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 20:02	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 20:02	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 20:02	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 20:02	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 20:02	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 20:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 20:02	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 20:02	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 20:02	95-47-6	
Surrogates									
Dibromofluoromethane (S)	85	%	70-130		1		11/25/19 20:02	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/25/19 20:02	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		11/25/19 20:02	460-00-4	

Sample: MW-10B **Lab ID: 40199783012** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 20:26	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 20:26	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 20:26	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 20:26	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 20:26	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 20:26	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 20:26	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 20:26	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 20:26	95-47-6	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: MW-10B **Lab ID: 40199783012** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Surrogates									
Dibromofluoromethane (S)	89	%	70-130		1		11/25/19 20:26	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/25/19 20:26	2037-26-5	
4-Bromofluorobenzene (S)	107	%	70-130		1		11/25/19 20:26	460-00-4	

Sample: MW-11A **Lab ID: 40199783013** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/26/19 07:06	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/26/19 07:06	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/26/19 07:06	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/26/19 07:06	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/26/19 07:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/26/19 07:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/26/19 07:06	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/26/19 07:06	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/26/19 07:06	95-47-6	
Surrogates									
Dibromofluoromethane (S)	90	%	70-130		1		11/26/19 07:06	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/26/19 07:06	2037-26-5	
4-Bromofluorobenzene (S)	109	%	70-130		1		11/26/19 07:06	460-00-4	

Sample: MW-11B **Lab ID: 40199783014** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 16:06	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 16:06	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 16:06	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 16:06	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 16:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 16:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 16:06	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 16:06	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 16:06	95-47-6	
Surrogates									
Dibromofluoromethane (S)	84	%	70-130		1		11/25/19 16:06	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/25/19 16:06	2037-26-5	
4-Bromofluorobenzene (S)	106	%	70-130		1		11/25/19 16:06	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40199783

Sample: TRIP BLANK **Lab ID: 40199783015** Collected: 11/20/19 00:00 Received: 11/22/19 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		11/25/19 15:42	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		11/25/19 15:42	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		11/25/19 15:42	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		11/25/19 15:42	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		11/25/19 15:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		11/25/19 15:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		11/25/19 15:42	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		11/25/19 15:42	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		11/25/19 15:42	95-47-6	
Surrogates									
Dibromofluoromethane (S)	88	%	70-130		1		11/25/19 15:42	1868-53-7	HS
Toluene-d8 (S)	101	%	70-130		1		11/25/19 15:42	2037-26-5	
4-Bromofluorobenzene (S)	111	%	70-130		1		11/25/19 15:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40199783

QC Batch: 341667 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40199783001, 40199783002, 40199783003, 40199783004, 40199783005, 40199783006, 40199783007, 40199783008, 40199783009, 40199783010, 40199783011, 40199783012, 40199783013, 40199783014, 40199783015

METHOD BLANK: 1984960 Matrix: Water
Associated Lab Samples: 40199783001, 40199783002, 40199783003, 40199783004, 40199783005, 40199783006, 40199783007, 40199783008, 40199783009, 40199783010, 40199783011, 40199783012, 40199783013, 40199783014, 40199783015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/25/19 13:41	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/25/19 13:41	
Benzene	ug/L	<0.25	1.0	11/25/19 13:41	
Ethylbenzene	ug/L	<0.22	1.0	11/25/19 13:41	
m&p-Xylene	ug/L	<0.47	2.0	11/25/19 13:41	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/25/19 13:41	
Naphthalene	ug/L	<1.2	5.0	11/25/19 13:41	
o-Xylene	ug/L	<0.26	1.0	11/25/19 13:41	
Toluene	ug/L	<0.17	5.0	11/25/19 13:41	
4-Bromofluorobenzene (S)	%	114	70-130	11/25/19 13:41	
Dibromofluoromethane (S)	%	83	70-130	11/25/19 13:41	
Toluene-d8 (S)	%	100	70-130	11/25/19 13:41	

LABORATORY CONTROL SAMPLE: 1984961

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	42.0	84	70-130	
Ethylbenzene	ug/L	50	59.7	119	80-124	
m&p-Xylene	ug/L	100	115	115	70-130	
Methyl-tert-butyl ether	ug/L	50	33.1	66	54-137	
o-Xylene	ug/L	50	56.9	114	70-130	
Toluene	ug/L	50	54.7	109	80-126	
4-Bromofluorobenzene (S)	%			119	70-130	
Dibromofluoromethane (S)	%			83	70-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985914 1985915

Parameter	Units	40199783014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	42.5	42.6	85	85	70-130	0	20	
Ethylbenzene	ug/L	<0.22	50	50	59.9	59.4	120	119	80-125	1	20	
m&p-Xylene	ug/L	<0.47	100	100	114	112	114	112	70-130	2	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	33.7	34.4	67	69	51-145	2	20	
o-Xylene	ug/L	<0.26	50	50	56.6	55.7	113	111	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: OLSON GOODMAN
Pace Project No.: 40199783

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985914 1985915

Parameter	Units	40199783014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.17	50	50	55.8	56.5	112	113	80-131	1	20	
4-Bromofluorobenzene (S)	%						117	117	70-130			
Dibromofluoromethane (S)	%						83	82	70-130			
Toluene-d8 (S)	%						105	102	70-130			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: OLSON GOODMAN
Pace Project No.: 40199783

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSON GOODMAN
Pace Project No.: 40199783

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40199783001	**MW-1R**	EPA 8260	341667		
40199783002	**MW-2A**	EPA 8260	341667		
40199783003	**MW-2B**	EPA 8260	341667		
40199783004	**MW-3A**	EPA 8260	341667		
40199783005	**MW-3B**	EPA 8260	341667		
40199783006	**MW-4**	EPA 8260	341667		
40199783007	**MW-5**	EPA 8260	341667		
40199783008	**MW-7**	EPA 8260	341667		
40199783009	**MW-9**	EPA 8260	341667		
40199783010	**MW-9P**	EPA 8260	341667		
40199783011	**MW-10A**	EPA 8260	341667		
40199783012	**MW-10B**	EPA 8260	341667		
40199783013	**MW-11A**	EPA 8260	341667		
40199783014	**MW-11B**	EPA 8260	341667		
40199783015	**TRIP BLANK**	EPA 8260	341667		

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

Page 1 of 2

CHAIN OF CUSTODY

4019978 3

(Please Print Clearly)	
Company Name:	Meridian Env. Co. LLC
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715 832 6608
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian Env. LLC
Mail To Address:	2711 N. Elcor Rd Fall Creek WI
Invoice To Contact:	54742
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

***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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOL + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1R	11/20		W			X			
002	-2A									
003	-2B									
004	-3A									
005	-3B									
006	-4									
007	-5									
008	-7									
009	-9									
010	-9P									
	see page TWO →									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

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:
	11/21/19	Fed Ex	11/21/19
Fed Ex	11/22/19 09:50	Quinn Ryan Pace	11/21/19 09:50

PACE Project No.
4019978 3

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

4019978 3

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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

(Please Print Clearly)	
Company Name:	Meridian Env Grp
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715832 6608
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian Env Grp
Mail To Address:	271 N. Floral Fall Creek WI
Invoice To Contact:	
Invoice To Company:	54742
Invoice To Address:	
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter	X pVOC + Naph			
012	MW-10A	11/20		W			X		011	
013	-10B	↓		↓			↓		012	
014	-11A								013	
015	-11B								014	
	① Trip Blank								015	
	① IN shipment Lab added Trip Blank									

11/22/19

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

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:
	11/21/19	Fed Ex	11/21/19
Fed Ex	11/22/19 0950	Ann Ryan Powell	11/22/19 0950

PACE Project No.
4019978 3

Receipt Temp = 2.0 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Container Order #555993

40199783

Order By :		Ship To :		Return To:	
Company	Meridian Environmental	Company	Meridian Environmental	Company	Pace Analytical Green Bay
Contact	Shimko, Kenneth	Contact	Shimko, Kenneth	Contact	Basten, Brian
Email	kshimko.meridianenv@gmail.com	Email	kshimko.meridianenv@gmail.com	Email	brian.basten@pacelabs.com
Address	2711 North Elco Rd	Address	2711 North Elco Rd	Address	1241 Bellevue Street
Address 2		Address 2		Address 2	Suite 9
City	Fall Creek	City	Fall Creek	City	Green Bay
State	WI Zip 54742	State	WI Zip 54742	State	WI Zip 54302
Phone	715-579-0723	Phone	715-579-0723	Phone	(920)469-2436

Info

Project Name	Olson Goodman	**Due Date**	10/23/2019	**Profile**		**Quote**	
Project	Basten, Brian	**Return**		**Carrier**	Most Economical	**Locatio**	WI

Trip Blanks

- [X] Include Trip Blanks

Bottle Labels

- [X] 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

COC Options

- [X] Number of Blanks 2
- [ ] Pre-Printed

Misc

- [X] Sampling Instructions
- [X] Custody Seal
- [ ] Temp. Blanks
- [X] Coolers
- [ ] Syringes
- [ ] Extra Bubble Wrap
- [ ] Short Hold/Rush
- [ ] DI Liter(s)
- [ ] USDA Regulated Soils

# of Samples	Matrix	Test	Container	Total	# of	Lot #	Notes
16	WT	PVOC	3-40mL glass vial w/ HCl	48	0	B-9-257-01VB	
1	WT	Trip BLANK	2-40mL HCL w/custody seal	2	0	B-9-098-01VB	

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 :	10/22/2019
Prepared By:	Mai Yer Her
Verified By:	

Sample

CLIENT USE (Optional):

Date Rec'd:	
Received By:	
Verified By:	

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

Sample Preservation Receipt Form

Client Name: Meridian Envir Assoc Project # 4499783

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: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		3															2.5 / 5 / 10
012																		3															2.5 / 5 / 10
013																		3															2.5 / 5 / 10
014																		3															2.5 / 5 / 10
015																		2															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

11/02/19 902

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:	

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

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO#: 40199783

40199783

Client Name: Meridian Envir Assoc

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

Tracking #: 7782 0445 9916

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 - 12 **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 1.5 /Corr: 2.0

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: 11/22/19
Initials: QR

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11. QR 11/22/19
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No time or date on ~~Table~~ Labels QR 11/22/19
-Includes date/time/ID/Analysis Matrix:		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 433		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:** 11/24/19

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

December 13, 2019

Kenneth Shimko
Meridian Environmental Consulting, LLC
2711 North Elco Rd
Fall Creek, WI 54742

RE: Project: OLSON GOODMAN
Pace Project No.: 40200645

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 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,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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

CERTIFICATIONS

Project: OLSON GOODMAN
Pace Project No.: 40200645

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

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

SAMPLE SUMMARY

Project: OLSON GOODMAN
Pace Project No.: 40200645

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40200645001	**7P**	Water	12/07/19 00:00	12/11/19 09:20
40200645002	**TRIP BLANK**	Water	12/07/19 00:00	12/11/19 09:20

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SAMPLE ANALYTE COUNT

Project: OLSON GOODMAN
Pace Project No.: 40200645

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40200645001	**7P**	EPA 8260	MDS	12	PASI-G
40200645002	**TRIP BLANK**	EPA 8260	MDS	12	PASI-G

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(920)469-2436

PROJECT NARRATIVE

Project: OLSON GOODMAN
Pace Project No.: 40200645

Method: **EPA 8260**
Description: 8260 MSV UST
Client: Meridian Environmental Consulting, LLC
Date: December 13, 2019

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: OLSON GOODMAN
Pace Project No.: 40200645

Sample: 7P **Lab ID: 40200645001** Collected: 12/07/19 00:00 Received: 12/11/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**1.4**	ug/L	1.0	0.25	1		12/12/19 14:02	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		12/12/19 14:02	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/12/19 14:02	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/12/19 14:02	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		12/12/19 14:02	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/12/19 14:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/12/19 14:02	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/12/19 14:02	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/12/19 14:02	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		12/12/19 14:02	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/12/19 14:02	2037-26-5	
4-Bromofluorobenzene (S)	93	%	70-130		1		12/12/19 14:02	460-00-4	

Sample: TRIP BLANK **Lab ID: 40200645002** Collected: 12/07/19 00:00 Received: 12/11/19 09:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST	Analytical Method: EPA 8260								
Benzene	**<0.25**	ug/L	1.0	0.25	1		12/12/19 13:38	71-43-2	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		12/12/19 13:38	100-41-4	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		12/12/19 13:38	1634-04-4	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		12/12/19 13:38	91-20-3	
Toluene	**<0.17**	ug/L	5.0	0.17	1		12/12/19 13:38	108-88-3	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		12/12/19 13:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		12/12/19 13:38	108-67-8	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		12/12/19 13:38	179601-23-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		12/12/19 13:38	95-47-6	
Surrogates									
Dibromofluoromethane (S)	109	%	70-130		1		12/12/19 13:38	1868-53-7	HS
Toluene-d8 (S)	102	%	70-130		1		12/12/19 13:38	2037-26-5	
4-Bromofluorobenzene (S)	94	%	70-130		1		12/12/19 13:38	460-00-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40200645

QC Batch: 343216 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV UST-WATER
Associated Lab Samples: 40200645001, 40200645002

METHOD BLANK: 1992772 Matrix: Water
Associated Lab Samples: 40200645001, 40200645002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/12/19 10:52	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/12/19 10:52	
Benzene	ug/L	<0.25	1.0	12/12/19 10:52	
Ethylbenzene	ug/L	<0.22	1.0	12/12/19 10:52	
m&p-Xylene	ug/L	<0.47	2.0	12/12/19 10:52	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/12/19 10:52	
Naphthalene	ug/L	<1.2	5.0	12/12/19 10:52	
o-Xylene	ug/L	<0.26	1.0	12/12/19 10:52	
Toluene	ug/L	<0.17	5.0	12/12/19 10:52	
4-Bromofluorobenzene (S)	%	92	70-130	12/12/19 10:52	
Dibromofluoromethane (S)	%	106	70-130	12/12/19 10:52	
Toluene-d8 (S)	%	97	70-130	12/12/19 10:52	

LABORATORY CONTROL SAMPLE: 1992773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.8	102	70-130	
Ethylbenzene	ug/L	50	53.7	107	80-124	
m&p-Xylene	ug/L	100	109	109	70-130	
Methyl-tert-butyl ether	ug/L	50	42.2	84	54-137	
o-Xylene	ug/L	50	54.0	108	70-130	
Toluene	ug/L	50	51.0	102	80-126	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1992774 1992775

Parameter	Units	40200647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	49.5	52.7	99	105	70-130	6	20	
Ethylbenzene	ug/L	<0.22	50	50	53.6	52.8	107	106	80-125	2	20	
m&p-Xylene	ug/L	<0.47	100	100	110	109	110	109	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.0	44.6	88	89	51-145	1	20	
o-Xylene	ug/L	<0.26	50	50	54.1	55.1	108	110	70-130	2	20	
Toluene	ug/L	<0.17	50	50	57.2	57.3	114	115	80-131	0	20	
4-Bromofluorobenzene (S)	%						109	104	70-130			
Dibromofluoromethane (S)	%						98	102	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: OLSON GOODMAN
Pace Project No.: 40200645

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1992774 1992775

Parameter	Units	40200647001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						107	106	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: OLSON GOODMAN
Pace Project No.: 40200645

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: OLSON GOODMAN
Pace Project No.: 40200645

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40200645001	**7P**	EPA 8260	343216		
40200645002	**TRIP BLANK**	EPA 8260	343216		

Pace Analytical
www.pacelabs.com

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

Page 1 of 1

CHAIN OF CUSTODY

40200645

(Please Print Clearly)	
Company Name:	Mentor Pen Corp
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715 832 6605
Project Number:	
Project Name:	Olson Goodman
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

*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

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Mentor Pen Corp
Mail To Address:	7711 N. Elcho Rd Fall Creek WI
Invoice To Contact:	54742
Invoice To Company:	
Invoice To Address:	CW
Invoice To Phone:	

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 DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: pVOL + naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	TP	12/7		W			X			
002	TB - received - added to coc, big lab 12/11/19									

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	
Transmit Prelim Rush Results by (complete what you want):	
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:
	12/10/19	Fed Ex	12/10/19
Fedex 12/11/19	0920		12/11/19 0920
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40200645

Receipt Temp = [illegible] °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: meridian Project # 40200645

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

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																		3									2						2.5 / 5 / 10
002																		2									2						2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
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018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

12/11 1921

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:	

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

Sample Condition Upon Receipt Form (SCUR)

Project # WO# : 40200645

40200645

Client Name: Meridian

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

Tracking #: 7787 7648 0947

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 - NA **Type of Ice:** (Wet) Blue Dry None ☐ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: NO /Corr:

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

Person examining contents:
Date: 12/11/19
Initials:

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: 12/11/19	☑Yes ☐No ☐N/A	12. ID only 12/11/19
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 933		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:** 12-11-19