Meridian Environmental Consulting, LLC

December 20, 2016

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

Subject: **Progress Report**
Jim's Bar
W14764 Highway 73
Jump River, Wisconsin
PECFA No. 54433-9769-64
DNR BRRTS No. 03-61-000116
Meridian No. 05F781

Dear Carrie:

This letter summarizes the work completed at this site in the past year. Our recommendations for further work are included.

During the past year, the following tasks were completed:

- Ground water sampling (12/8/15,3/31/16, 6/7/16)
- Collected air samples from onsite building to investigate vapor intrusion
- Supplied bottled water to residence 14789 Hwy. 73
- Installed carbon filtration system at 8891 Bridge Rd (Country Store)
- Prepared this report

The results of this work are described further in this report.

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RECENT WORK

Ground Water Sampling

Ground water samples were collected from selected monitoring wells and private wells on December 8, 2015, March 31, 2016, and June 7, 2016. The analytical reports are provided in Appendix A and summarized in Table 1. Figure 1 is a site map illustrating the well locations.

Ground water levels were measured in the monitoring wells when sampled; the measurements are summarized in Table 2.

Natural attenuation parameters (dissolved oxygen, temperature, pH, conductivity, oxidation reduction potential (ORP)) were measured in the monitoring wells when sampled. The measurements are provided in Table 3.

Vapor Intrusion Air Sampling

Air samples were collected April 27 and June 17, 2016 from the source property to investigate vapor intrusion.

The building has a basement under the middle portion (Figure 2). A slab is located under the attached garage. A crawlspace is found under the eastern ½ of the building.

A vapor port (Cox Colvin) was installed into the cement floor of the basement to allow collection of an air sample (labeled "Vapor Pin") from beneath the floor. Another air sample was collected from the crawlspace using a Summa Canister.

The analytical reports are provided in Appendix A and summarized in Table 4. The results indicated some vapors with measureable LEL and PID readings in the 'Vapor Pin' sample from April 27 (during 'winter' conditions). A subsequent sample collected in June did not have any detections.

The chromatograph from the April sampling event is included in Appendix A. The chromatograph indicates VOCs associated with petroleum. The reduced oxygen levels indicate aerobic biodegradation is occurring.

Carbon Treatment at 8891 Bridge Rd (Country Store)

Previous water samples from the potable water supply at the Country Store (8891 Bridge Rd) had measureable benzene impacts. However, the concentrations appear to be decreasing (Table 1).

A carbon treatment system was installed to treat the water supply. Samples collected before and after the water treatment document the carbon filtration system is effectively treating the water.

We recommend another year of carbon filtration and system sampling at the Country Store to allow time to determine whether a replacement well is warranted.

W14789 Hwy 13

The water supply at W14789 Hwy 13 (owned by Keepers) has low concentrations of benzene (Table 1). Bottled water is provided to the renters at this property.

DATA EVALUATION

Ground Water Contamination

Figure 2 illustrates the extent of ground water impacted above NR140 ES. The concentrations do fluctuate over time likely due to precipitation. Additional sampling may be needed to document a stable plume.

Potable Wells

The water quality at the Country Store appears to be improving. In fact, the most recent sample (June 7, 2016) did not have any concentrations above NR140 PAL (Preventive Action Levels). Further monitoring is needed to confirm the improved ground water quality.

The water quality at the residence 14789 (Keepers) remains consistent, i.e., benzene concentrations near or exceeding the NR140 ES for Benzene. MTBE is also found in this water supply.

We recommend the well construction be verified to determine whether this is a sand point well or a deeper well. A permanent solution to the ground water quality needs to be determined. This may include connecting the water supply to the Country Store well.

Vapor Intrusion

The "smear zone" at the source property may be producing vapors beneath the building. The vapors do not appear to exceed Vapor Risk Screening levels (Table 4). Additional air sampling should be completed to monitor these concentrations.

The smear zone could be effectively remediated with short-term soil vapor extraction. A portable SVE unit could be installed to remove the soil vapors beneath and adjacent to the building. Additionally, air sparging would aid in removing petroleum impacts from the smear zone.

RECOMMENDATIONS

Ground Water Monitoring

We recommend the monitoring wells be sampled twice (6 month intervals).

The natural attenuation parameters indicate dissolved oxygen is a limiting factor affecting the natural biodegradation at the site. Soil vapor extraction and air sparging would effectively improve the ground water quality especially since the source soils were removed.

This should be considered due to the apparent impacts to the potable wells at W14789 Hwy. 13 (Keepers) and 8891 Bridge Rd (Country Store).

Water Treatment

Carbon filtration of the Country Store and bottled water at the Keepers house should continue. The carbon filters at the Country Store should be replaced every 3 months. The water supply should be sampled before and after treatment every 3 months as well.

The well construction at 14789 (Keepers) should be investigated. This is necessary to determine a permanent solution to the benzene impacts.

COST

A Change Order for the above recommendations will be submitted after discussing with DNR Staff.

Sincerely,
MERIDIAN ENVIRONMENTAL CONSULTING, LLC

Kenneth Shimko, PG
Project Manager

TABLES

Table 1: Ground Water Analytical Data
Jim and Cindy's Bar
Jump River, Wisconsin
Meridian No. 05F781

Well	Date	1,2,4-TMB	1,3,5-TMB	Total TMB	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NR140 Enforcement Standard				480	5	700			2000	60	100	800
Monitoring Well Sampling Results												
MW-1	installed 10/11/11											
	10/14/2011	2670	850	3520	1250	2080	4660	1900	6560	182	553	7110
	6/23/2012	1230	388	1618	682	619			3870	17.2J	157	2590
	5/14/2013	1480	436	1916	348	880			3850	14.3J	311	1650
	12/3/2013	382	66.2	448.2	278	367			608	8.7	62.6	476
	4/15/2014	648	145	793	219	439			1440	11.2	101	842
	1/20/2015	1390	392	1782	621	998			3760	<24.2	239	3480
	4/28/2015	585	124	709	223	344			1150	15.8	65.7	577
	7/29/2015	164	18.2	182.2	79.6	170			184	9.4	25.9	108
	12/8/2015	165	16.3	181.3	102	230			276	4.2	28.5	229
	3/31/2016	Not sampled due to ponding										
	6/7/2016	711	175	886	175	489			1480	8.5	115	966
MW-2	installed 10/11/11											
	10/14/2011	1810	619	2429	94.5	680	2350	251	2601	87.4	292	278
	6/23/2012	634	153	787	5.4	164			497	15.5	79.9	44.6
	5/14/2013	733	273	1006	39.3	234			753	11.9	114	95.8
	12/3/2013	203	60.2	263.2	68.3	127			276	12.7	53.6	75.8
	4/15/2014	617	194	811	72.3	295			750	16.4	119	175
	1/20/2015	436	162	598	24.5	155			334	11	63.7	42.7
	4/28/2015	576	206	782	32.1	183			430	34.9	77.7	70.8
	7/29/2015	469	168	637	18.1	128			284	30	57	39.2
	12/8/2015	286	75.6	361.6	21	135			238	10.8	68.2	33.9
	3/31/2016	481	161	642	39.2	183			362	10	74.7	83.7
	6/7/2016	422	164	586	19.5	110			260	13.8	51.3	38
MW-3	installed 10/11/11											
	10/14/2011	3980	1260	5240	1560	2910	10200	2280	12480	169	856	9780
	6/23/2012	3340	993	4333	742	2560			11200	<38.1	632	7910
	5/14/2013	3130	944	4074	978	2230			9720	<38.1	606	7450
	12/3/2013	3270	998	4268	662	2300			9720	<37.1	577	6850
	4/15/2014	2870	888	3758	663	2200			9100	<48.5	567	5520
	1/20/2015	2840	859	3699	605	1930			8610	<24.2	482	6350
	4/28/2015	2810	848	3658	572	1710			7780	<24.2	468	5480
	7/29/2015	2730	827	3557	436	1730			7180	<19.4	445	5000
	12/8/2015	2570	765	3335	378	1580			6600	<19.4	443	4340
	3/31/2016	2630	734	3364	371	1550			6430	<9.7	456	3980
	6/7/2016	2900	885	3785	365	1500			7360	<9.7	480	4320
MW-4	installed 10/11/11											
	10/14/2011	2420	711	3131	1400	2380	6980	1890	8870	98.8	589	7460
	6/23/2012	3020	866	3886	1360	2370			10800	<19	686	7720
	5/14/2013	2770	809	3579	1660	2230			12300	<38.1	651	8760
	10/22/2013	well abandoned due to excavation										
MW-5	installed 5/6/13											
	5/14/2013	3090	919	4009	88.8	1120			4040	<19	655	387
	12/3/2013	2460	720	3180	103	770			2050	<9.3	450	223
	4/15/2014	3200	968	4168	82.5	890			2330	<12.1	501	201
	1/20/2015	SNOWPILE										
	4/28/2015	2670	842	3512	188	841			2340	<19.4	425	1020
	7/29/2015	2640	834	3474	61.9	848			2250	12.2	413	572
	12/8/2015	2680	833	3513	52.4	826			2110	<12.1	432	439
	3/31/2016	2190	617	2807	42.5	666			1380	<9.7	364	242
	6/7/2016	2320	737	3057	107	718			1750	<12.1	383	425
MW-6	installed 5/6/13											
	5/14/2013	2430	781	3211	44.6	1280			6470	16.1J	446	1810
	12/3/2013	2050	661	2711	41.5	747			2490	10.7	282	557
	4/15/2014	1080	336	1416	20.4	343			1280	<9.7	103	430
	1/20/2015	1650	514	2164	68.9	925			3720	<9.7	258	2060
	4/28/2015	1440	472	1912	15	492			1990	21.3	185	509
	7/29/2015	1540	550	2090	15.8	397			1770	18.8	177	475
	12/8/2015	1470	469	1939	43.3	726			2500	8.4	229	912
	3/31/2016	1160	400	1560	9.9	287			1050	7.1	117	245
	6/7/2016	1080	402	1482	13.3	261			957	9.9	106	261
MW-7	installed 5/7/13											
	5/14/2013	275	147	422	26.8	92.3			135	6.7J	41.4	29.2
	12/3/2013	116	33.4	149.4	18.8	85.6			131	6.7	33.2	19.7
	4/15/2014	80.7	30.9	111.6	12.4	53.4			69.8	9.3	19.8	13.5
	1/20/2015	256	81.7	337.7	15.6	211			443	6.9	80.7	34.3
	4/28/2015	206	62.7	268.7	5.4	133			275	16.3	59	14
	7/29/2015	133	32.3	165.3	3.7	72.2			118	14.5	38.6	5.6
	12/8/2015	115	36.5	151.5	3.6	45.8			75.5	7.6	24.1	4.1
	3/31/2016	95.3	27.5	122.8	11.7	58.4			74.2	5.3	28.4	9.2
	6/7/2016	121	33.7	154.7	14.3	116			168	8.1	52.7	17.5

Well	Date	1,2,4-TMB	1,3,5-TMB	Total TMB	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NR140 Enforcement Standard				480	5	700			2000	60	100	800
MW-8A	installed 10/28/13											
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	3.4	<.42	<.39
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	4.1	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	0.96	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
MW-8B	installed 10/28/13											
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
MW-9A	installed 10/28/13											
	12/3/2013	<.33	<.36	<.36	1.9	<.34			<1	1.7	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	0.97			<1.2	2	<.42	<.39
	1/20/2015	391	152	543	129	420			491	4.3	160	268
	4/28/2015	51.8	28.4	80.2	48.6	112			67	7.2	54.3	17.9
(9B ?)	7/29/2015	<.42	<.42	<.42	6	6			<1.2	4.8	0.58	0.76
	12/8/2015	<.42	<.42	<.42	0.74	<.39			<1.2	<.48	<.42	<.39
	3/31/2016	<.42	<.42	<.42	0.95	<.39			<1.2	0.49	<.42	<.39
	6/7/2016	159	48.8	207.8	21	131			123	2.2	54.4	49.2
MW-9B	installed 10/28/13											
	12/3/2013	<.33	<.36	<.36	2.7	<.34			<1	<.37	1.1	<.34
	4/15/2014	<.42	<.42	<.42	2.1	<.39			<1.2	0.56	<.42	<.39
	1/20/2015	<.42	<.42	<.42	8.5	<.39			<1.2	0.7	<.42	<.39
	4/28/2015	<.42	<.42	<.42	1.7	<.39			<1.2	0.58	<.42	<.39
(9A ?)	7/29/2015	<.42	0.48	0.48	36.5	69.7			2.3	6.9	7.4	1.8
	12/8/2015	<.42	<.42	<.42	0.61	<.39			<1.2	0.5	0.46	<.39
	3/31/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
MW-10A	installed 12/30/14											
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
MW-10B	installed 12/29/14											
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
MW-11	installed 4/20/15											
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39

Private Well Sampling Results													
Well	Date	1,2,4-TMB	1,3,5-TMB	Total TMB	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NR140 Enforcement Standard				480	5	700			2000	60	100	800
Bar (onsite well)												
(basement)	10/14/2011	<.4	<.44	<.44	<.31	<.5	<.62	<.77	<.77	<.3	<2	<.37
(outside)	6/23/2012	<.05	<.086	<.086	<.047	<.078	<.15	<.12	<.27	<.048	<.11	<.065
	5/14/2013	<.43	<.4	<.43	<.39	<.41			<1.3	<.38	<.4	<.42
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	12/8/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
Lyne (14767 Hwy. 73)												
	6/23/2012	<.05	<.086	<.086	<.047	<.078	<.15	<.12	<.27	<.048	<.11	<.065
	5/14/2013	<.43	<.4	<.43	<.39	<.41			<1.3	<.38	<.4	<.42
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	1/20/2015	Permission denied										
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	Permission denied										
8910 Elm (Mason)												
	6/23/2012	<.05	<.086	<.086	**.075J**	<.078	<.15	<.12	<.27	**.18J**	<.11	<.065
	5/14/2013	<.43	<.4	<.43	<.39	<.41			<1.3	<.38	<.4	<.42
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	2/2/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	**2**
	12/8/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
14789 State Hwy. 73 (Keppers)												
	6/23/2012	<.05	<.086	<.086	**6**	<.078	<.15	<.12	<.27	**1.6**	<.11	<.065
	5/14/2013	<.43	<.4	<.43	**5.7**	<.41			<1.3	**1.3**	<.4	<.42
	12/3/2013	<.33	<.36	<.36	**0.4**	<.34			<1	**1**	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	**0.99**	<.42	<.39
	1/20/2015	<.42	<.42	<.42	**4.7**	<.39			<1.2	**0.99**	<.42	<.39
	2/2/2015	<.42	<.42	<.42	**5.2**	<.39			<1.2	**1**	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	**3.3**	<.39			<1.2	**1.1**	<.42	<.39
	12/1/2015	<.42	<.42	<.42	**5.2**	<.39			<1.2	**1.3**	<.42	<.39
	6/7/2016	<.42	<.42	<.42	**5.9**	<.39			<1.2	**1.1**	<.42	<.39
14810 Hwy. 73 (cabin north of store - owner Gasior)												
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	unavailable due to occupancy										
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
14778 River Street (Milam)												
	5/14/2013	<.57	<2.5	<2.5	<.5	<.5	<.82	<.5	<.82	<.49	<2.5	<.44
	12/3/2013	No one home										
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	1/20/2015	No one home										
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
Community Center												
	5/14/2013	<.57	<2.5	<2.5	<.5	<.5	<.82	<.5	<.82	<.49	<2.5	<.44
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	12/8/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
8887 Bridge St.												
	5/14/2013	<.57	<2.5	<2.5	<.5	<.5	<.82	<.5	<.82	<.49	<2.5	<.44
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	<.37	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	**0.55**	<.42	<.39
	1/20/2015	Not sampled										
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39

Well	Date	1,2,4-TMB	1,3,5-TMB	Total TMB	Benzene	Ethylbenzene	m&p-xylene	o-xylene	Total Xylenes	MTBE	Naphthalene	Toluene
Units		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
NR140 Enforcement Standard				480	5	700			2000	60	100	800
8890 Bridge St. (McVicker)												
	5/14/2013	<.57	<2.5	<2.5	<.5	<.5	<.82	<.5	<.82	**.71J**	<2.5	<.44
	12/3/2013	<.33	<.36	<.36	<.34	<.34			<1	**0.97**	<.37	<.34
	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	1/20/2015	<.42	<.42	<.42	<.4	<.39			<1.2	**1**	<.42	<.39
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	**0.99**	<.42	<.39
	7/29/2015	<.42	<.42	<.42	<.4	<.39			<1.2	**1.2**	<.42	<.39
	12/8/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	**1**	<.42	<.39
8891 Bridge St (new well at newstore)												
Outside	12/3/2013	<.33	<.36	<.36	**2**	<.34			<1	**1.4**	<.37	**0.42**
Outside	4/15/2014	<.42	<.42	<.42	<.4	<.39			<1.2	**1.6**	<.42	<.39
Outside	1/20/2015	<.42	<.42	<.42	**35.6**	**1.2**			<1.2	**2.1**	<.42	<.39
Inside	2/2/2015	<.42	<.42	<.42	**32**	**1.2**			<1.2	**2.4**	<.42	<.39
Outside	2/2/2015	<.42	<.42	<.42	**28.7**	**1.2**			<1.2	**2.1**	<.42	<.39
Outside	2/23/2015	<.42	<.42	<.42	**21.5**	**1.4**			<1.2	**2.1**	<.42	<.39
Treated	2/23/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
Treated	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
Outside	4/28/2015	<.42	<.42	<.42	**23.9**	1.4			<1.2	**2.1**	<.42	<.39
Outside	7/29/2015	<.42	<.42	<.42	**5.4**	**0.69**			<1.2	**2.6**	<.42	<.39
Treated	7/29/2015	<.42	<.42	<.42	**0.66**	<.39			<1.2	<.48	<.42	<.39
Outside	12/8/2015	<.42	<.42	<.42	4.2	0.64			<1.2	**2.7**	<.42	<.39
Treated	12/8/2015	Not sampled per DNR										
Outside	3/31/2016	<.42	<.42	<.42	**1.5**	**0.7**			<1.2	**2.1**	<.42	<.39
Treated	3/31/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
Outside	6/7/2016	<.42	<.42	<.42	**0.49**	<.39			<1.2	**2**	<.42	<.39
Treated	6/7/2016	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
8897 Birch Drive												
	4/28/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39
	12/8/2015	<.42	<.42	<.42	<.4	<.39			<1.2	<.48	<.42	<.39

10 Concentration exceeds NR140 Enforcement Standard

J Lab reports "estimated concentration above the adjusted method detection limit and below the adjusted reporting limit"

Table 2: Ground Water Level Measurements
Jim and Cindy's Bar
Jump River, Wisconsin
Meridian No. 05F781

MW-1 (installed 10/11/11)			MW-2 (installed 10/11/11)			MW-3 (installed 10/11/11)		
Surface Elevation (ft)		100.25	Surface Elevation (ft)		100.25	Surface Elevation (ft)		100.75
Top of Casing elevation (ft)		100	Top of Casing elevation (ft)		100.01	Top of Casing elevation (ft)		100.54
Top of Screen Elevation (ft)		84	Top of Screen Elevation (ft)		84	Top of Screen Elevation (ft)		84.5
Bottom of Screen Elevation (ft)		74	Bottom of Screen Elevation (ft)		74	Bottom of Screen Elevation (ft)		74.5
Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)
10/14/2011	17.05	82.95	10/14/2011	16.98	83.03	10/14/2011	17.6	82.94
10/28/2011	17.2	82.8	10/28/2011	17.19	82.82	10/28/2011	17.78	82.76
6/23/2012	16.88	83.12	6/23/2012	16.83	83.18	6/23/2012	17.46	83.08
5/14/2013	16.14	83.86	5/14/2013	16.11	83.9	5/14/2013	16.72	83.82
12/3/2013	NM	NM	12/3/2013	17.48	82.53	12/3/2013	18.07	82.47
Resurvey April 15, 2014		**100**			**100.01**			**100.54**
4/15/2014	16.16	83.84	4/15/2014	16.19	83.82	4/15/2014	16.78	83.76
1/20/2015	16.21	83.79	1/20/2015	16.17	83.84	1/20/2015	16.78	83.76
4/28/2015	16.45	83.55	4/28/2015	16.42	83.59	4/28/2015	17.02	83.52
7/29/2015	16.6	83.4	7/29/2015	16.57	83.44	7/29/2015	17.15	83.39
12/8/2015	16.9	83.1	12/8/2015	16.87	83.14	12/8/2015	17.46	83.08
3/31/2016	Flooded - pond		3/31/2016	15.47	84.54	3/31/2016	16.08	84.46
Resurvey June 7, 2016	**100 (use 99.89 for future meas due to cut PVC)**				**99.95**			**100.51**
6/7/2016	15.77	84.23	6/7/2016	15.72	84.23	6/7/2016	16.31	84.2

MW-4 (installed 10/11/11)			MW-5 (installed 5/6/13)			MW-6 (installed 5/6/13)		
Surface Elevation (ft)		100.75	Surface Elevation (ft)		100.75	Surface Elevation (ft)		100
Top of Casing elevation (ft)		100.35	Top of Casing elevation (ft)		100.5	Top of Casing elevation (ft)		99.85
Top of Screen Elevation (ft)		84.5	Top of Screen Elevation (ft)		84.25	Top of Screen Elevation (ft)		85
Bottom of Screen Elevation (ft)		74.5	Bottom of Screen Elevation (ft)		74.25	Bottom of Screen Elevation (ft)		75
Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)
10/14/2011	17.45	82.9						
10/28/2011	17.61	82.74						
6/23/2012	17.3	83.05						
5/14/2013	16.55	83.8	5/14/2013	16.68	83.82	5/14/2013	15.95	83.9
Well abandoned 10/22/13			12/3/2013	18.02	82.48	12/3/2013	17.33	82.52
			Resurvey April 15, 2014		**100.53**			**99.86**
			4/15/2014	16.73	83.8	4/15/2014	15.98	83.88
			1/20/2015	SNOWPILE		1/20/2015	16.05	83.81
			4/28/2015	16.92	83.61	4/28/2015	16.28	83.58
			7/29/2015	17.05	83.48	7/29/2015	16.23	83.63
			12/8/2015	17.35	83.18	12/8/2015	16.7	83.16
			3/31/2016	15.95	84.58	3/31/2016	15.25	84.61
			Resurvey June 7, 2016		**100.38**	**Resurvey June 7, 2016**		**99.81**
			6/7/2016	16.18	84.2	6/7/2016	15.45	84.36

MW-7 (installed 5/7/13)			MW-8A (installed 10/28/13)			MW-8B (installed 10/28/13)		
Surface Elevation (ft)		100.5	Surface Elevation (ft)		99.75	Surface Elevation (ft)		99.7
Top of Casing elevation (ft)		100.14	Top of Casing elevation (ft)		99.54	Top of Casing elevation (ft)		99.49
Top of Screen Elevation (ft)		86	Top of Screen Elevation (ft)		84.75	Top of Screen Elevation (ft)		84.7
Bottom of Screen Elevation (ft)		76	Bottom of Screen Elevation (ft)		74.75	Bottom of Screen Elevation (ft)		59.7
Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)
5/14/2013	16.3	83.84						
12/3/2013	17.65	82.49	12/3/2013	17.06	82.48	12/3/2013	18.51	80.98
Resurvey April 15, 2014		**100.21**			**99.54**			**99.49**
4/15/2014	16.37	83.84	4/15/2014	15.37	84.17	4/15/2014	16.21	83.28
1/20/2015	16.4	83.81	1/20/2015	15.5	84.04	1/20/2015	17.27	82.22
4/28/2015	16.64	83.57	4/28/2015	15.85	83.69	4/28/2015	17.48	82.01
7/29/2015	16.78	83.43	7/29/2015	16.01	83.53	7/29/2015	18.1	81.39
12/8/2015	17.08	83.13	12/8/2015	16.3	83.24	12/8/2015	17.96	81.53
3/31/2016	15.68	84.53	3/31/2016	Not Measured		3/31/2016	Not Measured	
Resurvey June 7, 2016		**100.15**	**Resurvey June 7, 2016**		**99.47**	**Resurvey June 7, 2016**		**99.44**
6/7/2016	15.93	84.22	6/7/2016	15.13	84.34	6/7/2016	16.83	82.61

MW-9A (installed 10/28/13)			MW-9B (installed 10/28/13)		
Surface Elevation (ft)		101	Surface Elevation (ft)		100.5
Top of Casing elevation (ft)		100.95	Top of Casing elevation (ft)		100.44
Top of Screen Elevation (ft)		86	Top of Screen Elevation (ft)		65.5
Bottom of Screen Elevation (ft)		76	Bottom of Screen Elevation (ft)		60.5
Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)
12/3/2013	18.5	82.45	12/3/2013	18.98	81.46
Resurvey April 15, 2014		100.95			100.44
4/15/2014	17.11	83.84	4/15/2014	18	82.44
1/20/2015	17.13	83.82	1/20/2015	17.77	82.67
4/28/2015	17.37	83.58	4/28/2015	18.1	82.34
7/29/2015	17.5	83.45	7/29/2015	18.61	81.83
12/8/2015	17.8	83.15	12/8/2015	23.65	76.79
3/31/2016	16.4	84.55	3/31/2016	18	82.44
Resurvey June 7, 2016		**100.82**	**Resurvey June 7, 2016**		**100.27**
6/7/2016	16.64	84.18	6/7/2016	17.79	82.48

MW-10A (installed 12/30/14)	(25 ft deep)		MW-10B (installed 12/29/14)	(60 ft deep)		MW-11 (installed 4/20/15)	(65 ft deep)	
Surface Elevation (ft)		100	Surface Elevation (ft)		100	Surface Elevation (ft)		103
Top of Casing elevation (ft)		99.79	Top of Casing elevation (ft)		99.87	Top of Casing elevation (ft)		102.63
Top of Screen Elevation (ft)		85	Top of Screen Elevation (ft)		45	Top of Screen Elevation (ft)		43
Bottom of Screen Elevation (ft)		75	Bottom of Screen Elevation (ft)		40	Bottom of Screen Elevation (ft)		38
Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)	Measurement Date	DTW (ft)	GW Elev (ft)
Surveyed 5/1/15		99.79	**Surveyed 5/1/15**		99.87	**Surveyed 5/1/15**		102.63
1/20/2015	15.92	83.87	1/20/2015	18.78	81.09	1/20/2015	18.78	83.85
4/28/2015	15.92	83.87	4/28/2015	19.29	80.58	4/28/2015	23.81	78.82
7/29/2015	16.15	83.64	7/29/2015	20.03	79.84	7/29/2015	24.69	77.94
Resurvey June 7, 2016		**99.87**	**Resurvey June 7, 2016**		**99.89**	(not resurveyed)		
6/7/2016	15.29	84.58	6/7/2016	18.48	81.41	6/7/2016	23.17	79.46

Vertical Gradient

Date	MW-8A	MW-8B	Gradient (positive downward)	9A	9B	Gradient (positive downward)	10A	10B	Gradient (positive downward)
12/3/2013	82.48	80.98	0.07	82.45	81.46	0.05			
4/15/2014	84.17	83.28	0.04	83.84	82.44	0.07			
1/20/2015	84.04	82.22	0.08	83.82	82.67	0.06	83.87	81.09	0.13
4/28/2015	83.69	82.01	0.08	83.58	82.34	0.06	83.87	80.58	0.16
7/29/2015	83.53	81.39	0.10	83.45	81.83	0.08	83.64	79.84	0.18

Table 3: Natural Attenuation Measurements

Jim's Bar
Jump River, Wisconsin
Meridian No. 05F781

Well	Date	DO	pH	Temp	K	ORP
		ppm		Celcius	uS	
MW-1						
	4/28/2015	<<1	6.72	11.6	911	
	7/29/2015	1	6.84	13.6	922	
	12/8/2015	0	7.94	10.2	811	-66
	6/7/2016	0	7.89	11.3	1044	-55
MW-2						
	4/28/2015	<<1	6.58	10.2	461	
	7/29/2015	<1	6.8	14.1	500	
	12/8/2015	0	7.14	10.9	413	-58
	3/31/2016	0	7.55	7	684	3
	6/7/2016	<<1	7.31	10.5	524	-58
MW-3						
	4/28/2015	<<1	7.01	10.5	1068	
	7/29/2015	<1	6.87	12.8	1057	
	12/8/2015	0	6.84	10.8	1090	-6
	3/31/2016	0	8.13	7.9	1235	104
	6/7/2016	0	7.12	11.8	1099	-60
MW-5						
	4/28/2015	<<1	7.17	11.6	725	
	7/29/2015	<1	7.71	14.1	753	
	12/8/2015	0	6.79	11.3	763	-1
	3/31/2016	0	7.27	7.3	976	35
	6/7/2016	0	6.94	11.5	1156	-36
MW-6						
	4/28/2015	<<1	6.17	11.8	1850	
	7/29/2015	1	6.51	14.2	990	
	12/8/2015	0	6.95	10.4	13.38	14
	3/31/2016	1	7.08	6	1505	7
	6/7/2016	<1	7	13.2	1608	-29
MW-7						
	4/28/2015	<<1	6.67	12.2	590	
	7/29/2015	<1	7.03	14.6	580	
	12/8/2015	0	7.16	10.8	503	-26
	3/31/2016	<1	7.15	6.7	980	-22
	6/7/2016	0	7.23	13.3	728	2
MW-8A						
	4/28/2015	<<1	6.05	11.3	3200	
	7/29/2015	4	6.32	12.9	2930	
	6/7/2016	<<1	7.17	13.9	319	-12
MW-8B						
	4/28/2015	1	6.23	11.9	932	
	7/29/2015	1	6.49	12.7	948	
	6/7/2016	1	7.01	11.4	1004	0
MW-9A						
	4/28/2015	4	6.62	12.6	1284	
	7/29/2015	4	6.63	14.3	1024	
	12/8/2015	0	6.95	10.6	908	27
	3/31/2016	1	7.3	7.2	934	27
	6/7/2016	1	6.92	11.9	1363	-9
MW-9B						
	4/28/2015	4	6.23	13.7	636	
	7/29/2015	<1	6.61	15.6	812	
	12/8/2015	1	7.02	9.5	720	28
	3/31/2016	3	7.47	7.9	605	28
	6/7/2016	<1	7	12.7	646	-24
MW-10A						
	4/28/2015	2	6.25	10.5	312	
	7/29/2015	2	7.02	16.2	301	
	6/7/2016	2	7.05	11.2	270	40
MW-10B						
	4/28/2015	3	7.58	10.9	544	
	7/29/2015	4	7.78	15.3	573	
	6/7/2016	2	7.42	11.2	598	50
MW-11						
	4/28/2015	4	7.26	11.9	370	
	7/29/2015	4	7.61	12.8	347	
	6/7/2016	-	8.21	12.2	383	60

Measurements collected in the field

Table 4: Summary of Soil Vapor Sampling

Jim and Cindy's Bar
Jump River, Wisconsin
Meridian No. 05F781

Boring	Date	LEL	Oxygen	PID	Benzene	Ethylbenzene	MTBE	Toluene	1,2,4-TMB	1,3,5-TMB	m&p-Xylene	o-Xylene
Units			%		ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Vapor Risk Screening Levels**					120	370	3700	170000	240	---	3300	3300
Vapor Pin												
	4/27/2016	4	16.5	5	1.9	3	<.47	8	12.3	2.8	16.2	4.9
	6/17/2016	0	20.2	0	4.6	3.1	<.47	19.5	5.9	1.5	12.7	4.1
Crawl Space												
	4/27/2016	0	20.9	0	1.7	2.2	<.49	10.6	8.3	3	10.2	3.1
	6/17/2016	0	20.9	0	<.2	<.71	<.51	0.91	5.9	1.5	1.7	1.2

* depth to ground water = 15 ft (typical)
** Vapor Risk Screening Levels based on December 2015 US EPA Regional Screening Level Tables. Residential - Sub-slab Vapor VRSL used.

FIGURES

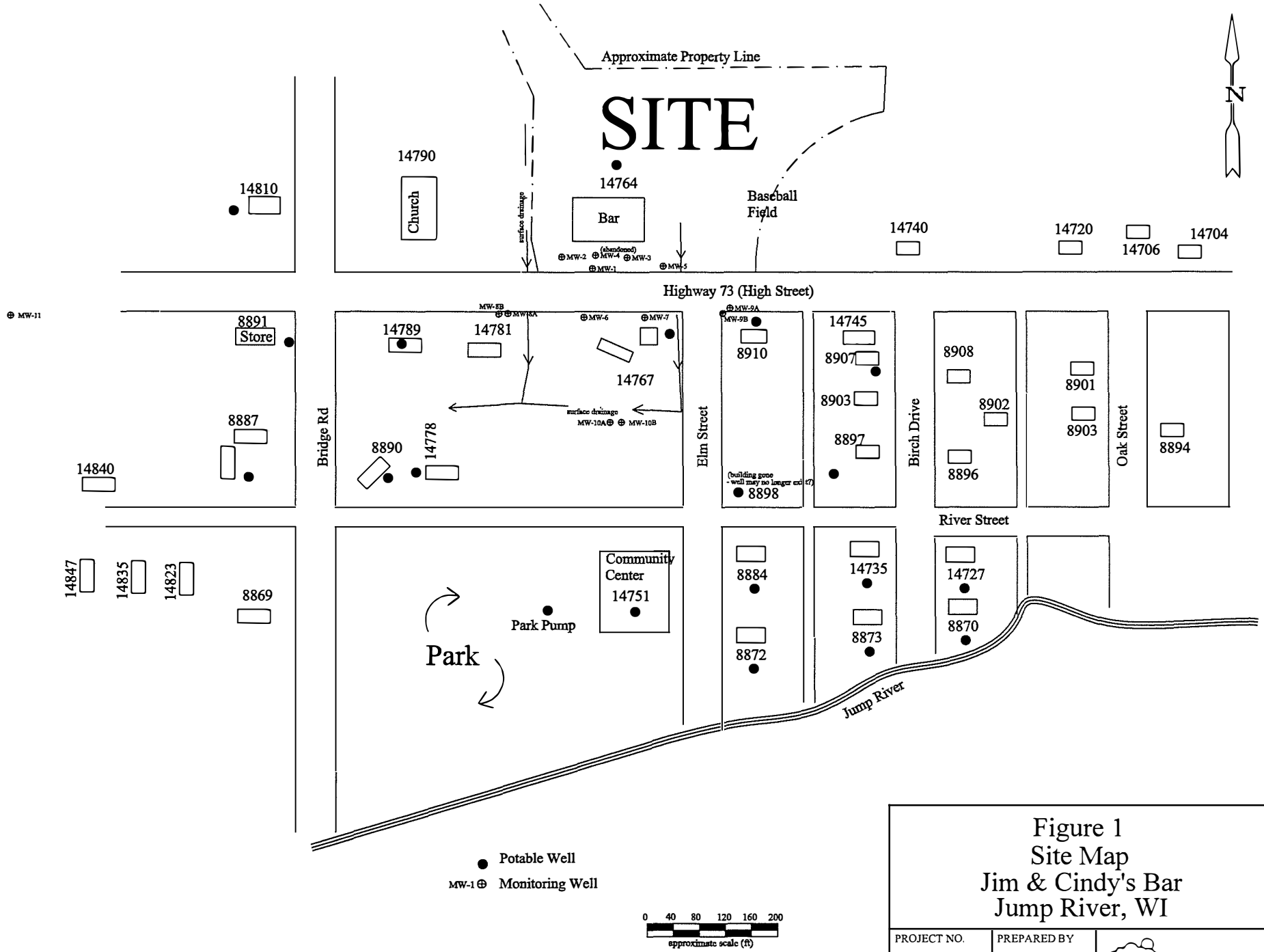
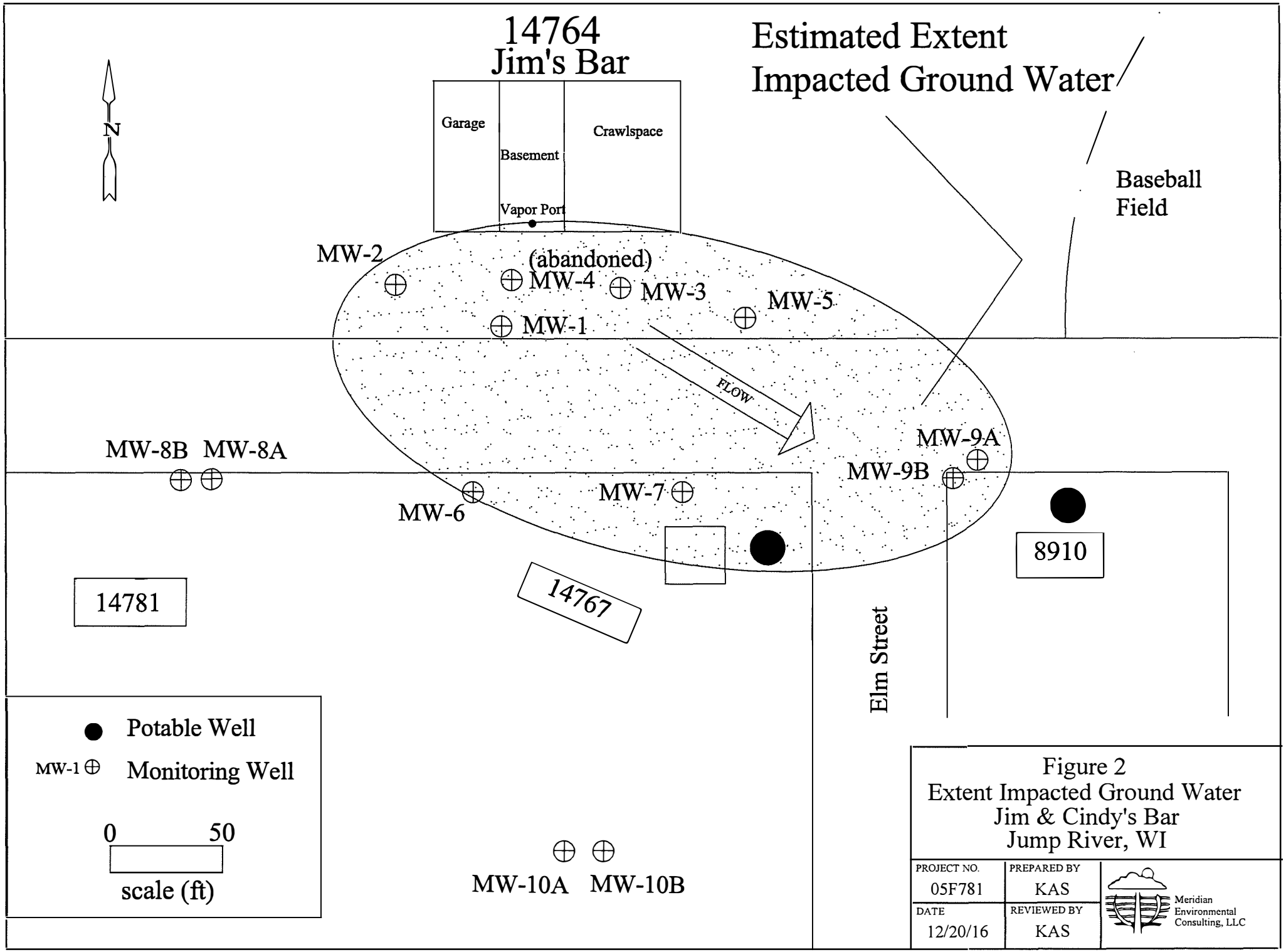


Figure 1
Site Map
Jim & Cindy's Bar
Jump River, WI

PROJECT NO.	PREPARED BY
05F781	KAS
DATE	REVIEWED BY
12/20/16	KAS

Meridian Environmental Consulting, LLC


14764
Jim's Bar
Estimated Extent
Impacted Ground Water
N
Garage
Basement
Crawlspace
Vapor Port
Baseball
Field
MW-2
(abandoned)
MW-4
MW-3
MW-5
MW-1
FLOW
MW-8B
MW-8A
MW-9A
MW-9B
MW-7
MW-6
8910
14781
14767
Elm Street
Potable Well
MW-1
Monitoring Well
0
50
scale (ft)
MW-10A
MW-10B
Figure 2
Extent Impacted Ground Water
Jim & Cindy's Bar
Jump River, WI
PROJECT NO.
05F781
PREPARED BY
KAS
DATE
12/20/16
REVIEWED BY
KAS
Meridian
Environmental
Consulting, LLC

APPENDIX A

Laboratory Reports

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

May 05, 2016

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

RE: Project: Jim's Bar
Pace Project No.: 10346661

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on April 29, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Jim's Bar
Pace Project No.: 10346661

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: Jim's Bar
Pace Project No.: 10346661

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10346661001	Vapor Pin	Air	04/27/16 02:51	04/29/16 09:50
10346661002	Crawl Space	Air	04/27/16 02:57	04/29/16 09:50

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SAMPLE ANALYTE COUNT

Project: Jim's Bar
Pace Project No.: 10346661

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10346661001	**Vapor Pin**	TO-15	MLS	8	PASI-M
10346661002	**Crawl Space**	TO-15	MLS	8	PASI-M

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ANALYTICAL RESULTS

Project: Jim's Bar
Pace Project No.: 10346661

Sample: Vapor Pin **Lab ID: 10346661001** Collected: 04/27/16 02:51 Received: 04/29/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Benzene	**1.9**	ug/m3	1.0	0.19	1.55		05/04/16 23:09	71-43-2	
Ethylbenzene	**3.0**	ug/m3	1.4	0.66	1.55		05/04/16 23:09	100-41-4	
Methyl-tert-butyl ether	**<0.47**	ug/m3	5.7	0.47	1.55		05/04/16 23:09	1634-04-4	
Toluene	**8.0**	ug/m3	1.2	0.24	1.55		05/04/16 23:09	108-88-3	
1,2,4-Trimethylbenzene	**12.3**	ug/m3	3.9	0.19	1.55		05/04/16 23:09	95-63-6	
1,3,5-Trimethylbenzene	**2.8**	ug/m3	1.5	0.28	1.55		05/04/16 23:09	108-67-8	
m&p-Xylene	**16.2**	ug/m3	3.2	1.2	1.55		05/04/16 23:09	179601-23-1	
o-Xylene	**4.9**	ug/m3	1.4	0.54	1.55		05/04/16 23:09	95-47-6	

Sample: Crawl Space **Lab ID: 10346661002** Collected: 04/27/16 02:57 Received: 04/29/16 09:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Benzene	**1.7**	ug/m3	1.0	0.20	1.61		05/04/16 23:41	71-43-2	
Ethylbenzene	**2.2**	ug/m3	1.4	0.68	1.61		05/04/16 23:41	100-41-4	
Methyl-tert-butyl ether	**<0.49**	ug/m3	5.9	0.49	1.61		05/04/16 23:41	1634-04-4	
Toluene	**10.6**	ug/m3	1.2	0.25	1.61		05/04/16 23:41	108-88-3	
1,2,4-Trimethylbenzene	**8.3**	ug/m3	4.0	0.20	1.61		05/04/16 23:41	95-63-6	
1,3,5-Trimethylbenzene	**3.0**	ug/m3	1.6	0.29	1.61		05/04/16 23:41	108-67-8	
m&p-Xylene	**10.2**	ug/m3	3.3	1.3	1.61		05/04/16 23:41	179601-23-1	
o-Xylene	**3.1**	ug/m3	1.4	0.57	1.61		05/04/16 23:41	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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QUALITY CONTROL DATA

Project: Jim's Bar
Pace Project No.: 10346661

QC Batch: AIR/25843
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10346661001, 10346661002

METHOD BLANK: 2249154
Matrix: Air
Associated Lab Samples: 10346661001, 10346661002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	<0.12	2.5	05/04/16 09:35	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	05/04/16 09:35	
Benzene	ug/m3	<0.12	0.65	05/04/16 09:35	
Ethylbenzene	ug/m3	<0.42	0.88	05/04/16 09:35	
m&p-Xylene	ug/m3	<0.79	2.0	05/04/16 09:35	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	05/04/16 09:35	
o-Xylene	ug/m3	<0.35	0.88	05/04/16 09:35	
Toluene	ug/m3	<0.15	0.77	05/04/16 09:35	

LABORATORY CONTROL SAMPLE: 2249155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	50	50.0	100	57-143	
1,3,5-Trimethylbenzene	ug/m3	50	55.5	111	54-147	
Benzene	ug/m3	32.5	38.5	118	62-141	
Ethylbenzene	ug/m3	44.2	48.1	109	59-149	
m&p-Xylene	ug/m3	88.3	87.0	99	59-146	
Methyl-tert-butyl ether	ug/m3	183	193	105	64-135	
o-Xylene	ug/m3	44.2	47.7	108	54-149	
Toluene	ug/m3	38.3	38.4	100	61-138	

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, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

QUALIFIERS

Project: Jim's Bar
Pace Project No.: 10346661

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

SAMPLE QUALIFIERS

Sample: 10346661002

[1] The internal standard recoveries associated with this sample exceed the lower control limit. The reported results should be considered estimated values.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Jim's Bar
Pace Project No.: 10346661

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10346661001	Vapor Pin	TO-15	AIR/25843		
10346661002	Crawl Space	TO-15	AIR/25843		

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www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

24477

Page: 1 of 1

Section A Required Client Information:

Company: Meridian Env. Grp
Address: 2711 N. Elco Rd
Fall Creek WI 54742
Email To:
Phone: 715 338 2668 Fax:
Requested Due Date/TAT: Normal

Section B Required Project Information:

Report To: Ken Shinko
Copy To:
Purchase Order No.:
Project Name: Jim's Bar
Project Number:

Section C Invoice Information:

Attention: Ken Shinko
Company Name: Meridian Env. Grp WI
Address: 2711 N. Elco Rd, Fall Creek
Pace Quote Reference: 54742
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: ☐ UST ☐ Superfund ☐ Emissions ☐ Clean Air Act ☐ Voluntary Clean Up ☐ Dry Clean ☐ RCRA ☐ Other

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ PPBV PPMV Other

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

Valid Media Codes

MEDIA	CODE
Tedlar Bag	TB
1 Liter Summa Can	1LC
6 Liter Summa Can	6LC
Low Volume Puff	LVP
High Volume Puff	HVP
Other	PM10

ITEM #	'Section D Required Client Information / AIR SAMPLE ID	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START END/GRAB DATE	COLLECTED COMPOSITE START END/GRAB TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: PM10	3C- Fixed Gas (%)	TO-3	TO-3M (Methane)	TO-4 (PCBs)	TO-13 (PAH)	TO-14	TO-15	TO15 Short List*	FUOC	Pace Lab ID
1	Vapor Pin	6LC		4/27	2:15	4/27	2:51	28	5	0052											X	
2	Crawl Space	*		↓	~~2:57~~ 2:24 KS	↓	2:57	29	6	0698												
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4/28/16		Fed Ex	4/28/16	
			Alyssa Pullen	4/29/16	950

SAMPLE CONDITIONS

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
AMB	(Y) N	(Y) N	(Y) N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ken Shinko
SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 4/27/16

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Meridian Env City

Project #: WO#: 10346661

Courier: ☒ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 6667 5030 4438

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☒ Yes ☐ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): Corrected Temp (°C): Thermom. Used: ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C Correction Factor: Date & Initials of Person Examining Contents: AMP 4/29/16

Type of Ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
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 and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	7.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	10.
Media: Air Can Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☐ Yes	☒ No	☐ N/A	12. NO sample ID Date or time on tag

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
Vapor Pin	0052	2858			
Crawl Space	0698	1137			

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

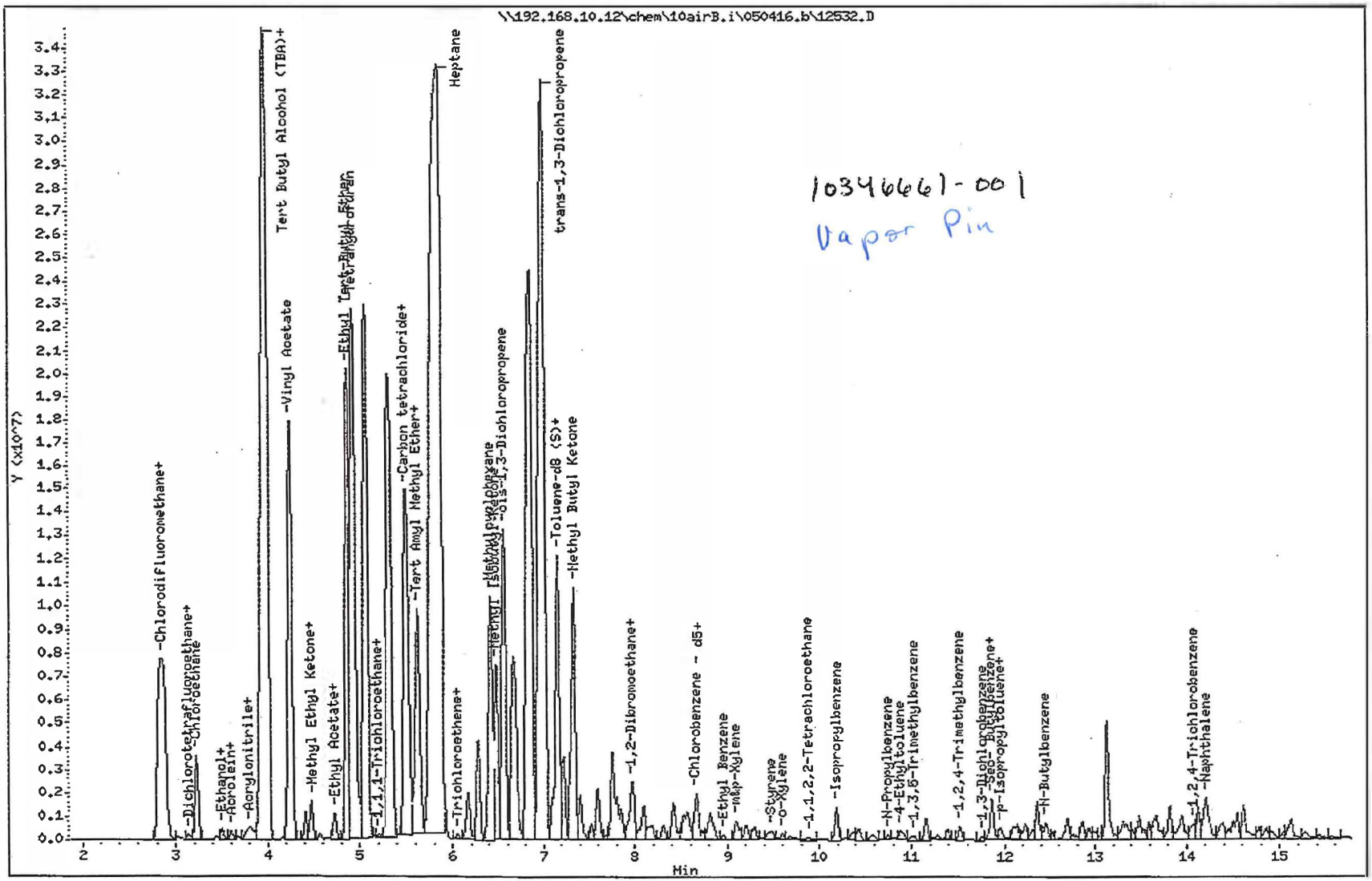
Project Manager Review: Carolyne Trout Date: 5/2/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Data File: \\192.168.10.12\chem\10airB.i\050416.b\12532.D
Date : 04-MAY-2016 23:09
Client ID:
Sample Info:

Instrument: 10airB.i

Operator: MLS
Column phase: J&W DB-5
Column diameter: 0.32

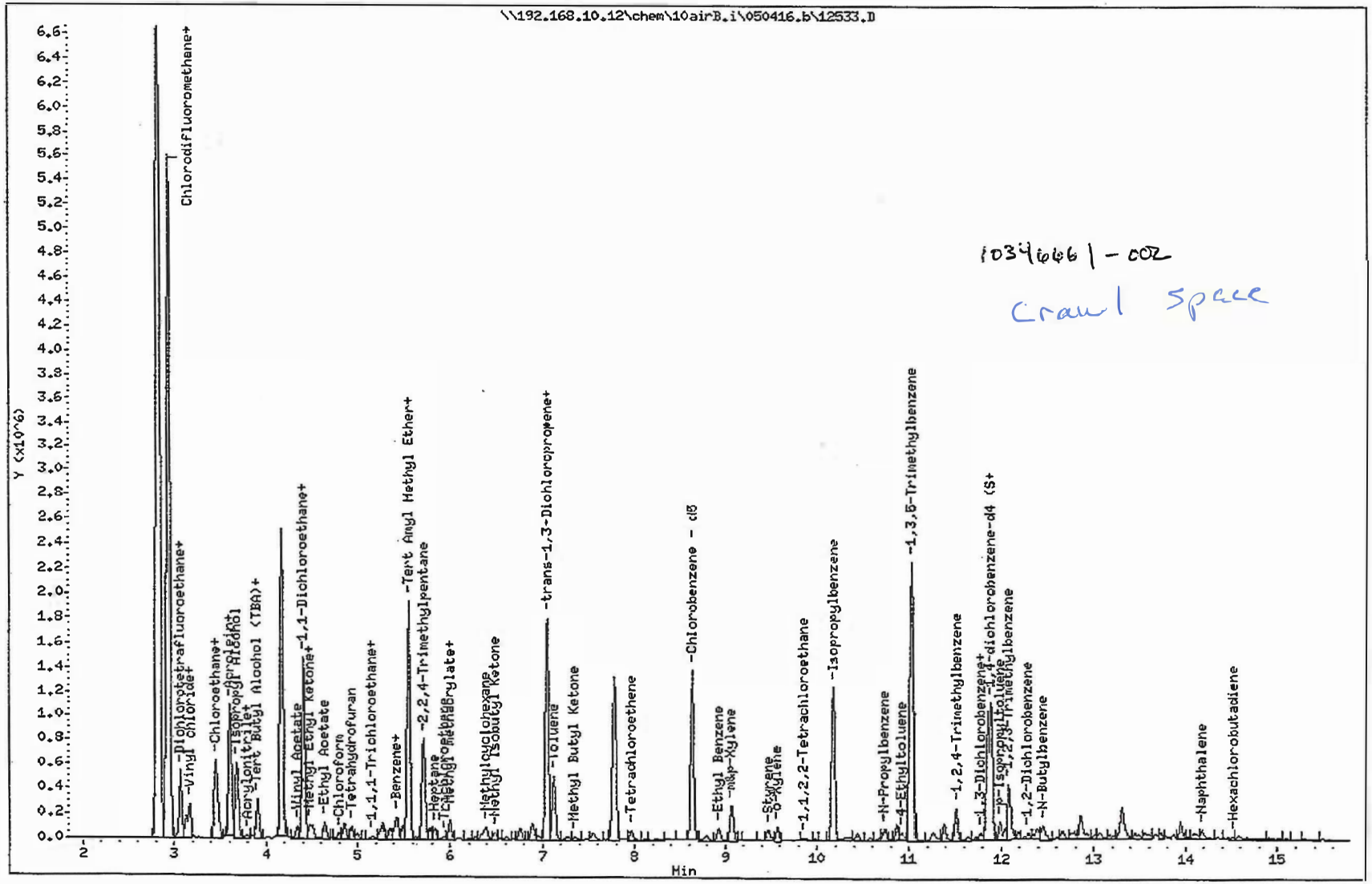


1034666-001
Vapor Pin

Data File: \\192.168.10.12\chem\10airB.i\050416.b\12533.D
Date : 04-MAY-2016 23:41
Client ID:
Sample Info:

Instrument: 10airB.i

Operator: HLS
Column phase: J&W DB-5
Column diameter: 0.32



1034666 | - 002
Crawl Space

Pace Analytical®
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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

June 27, 2016

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

RE: Project: Jump River
Pace Project No.: 10352680

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Jump River
Pace Project No.: 10352680

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: Jump River
Pace Project No.: 10352680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10352680001	Crawlspace	Air	06/17/16 10:36	06/20/16 09:20
10352680002	VP-1	Air	06/17/16 10:45	06/20/16 09:20

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SAMPLE ANALYTE COUNT

Project: Jump River
Pace Project No.: 10352680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10352680001	**Crawlspace**	TO-15	MJL	8	PASI-M
10352680002	**VP-1**	TO-15	MJL	8	PASI-M

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ANALYTICAL RESULTS

Project: Jump River
Pace Project No.: 10352680

Sample: Crawlspace **Lab ID: 10352680001** Collected: 06/17/16 10:36 Received: 06/20/16 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Benzene	**4.6**	ug/m3	0.50	0.19	1.55		06/26/16 19:39	71-43-2	
Ethylbenzene	**3.1**	ug/m3	1.4	0.66	1.55		06/26/16 19:39	100-41-4	
Methyl-tert-butyl ether	**<0.47**	ug/m3	5.7	0.47	1.55		06/26/16 19:39	1634-04-4	
Toluene	**19.5**	ug/m3	1.2	0.24	1.55		06/26/16 19:39	108-88-3	
1,2,4-Trimethylbenzene	**5.9**	ug/m3	1.5	0.19	1.55		06/26/16 19:39	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	1.5	0.28	1.55		06/26/16 19:39	108-67-8	
m&p-Xylene	**12.7**	ug/m3	2.7	1.2	1.55		06/26/16 19:39	179601-23-1	
o-Xylene	**4.1**	ug/m3	1.4	0.54	1.55		06/26/16 19:39	95-47-6	

Sample: VP-1 **Lab ID: 10352680002** Collected: 06/17/16 10:45 Received: 06/20/16 09:20 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Benzene	**<0.20**	ug/m3	0.55	0.20	1.68		06/26/16 19:08	71-43-2	
Ethylbenzene	**<0.71**	ug/m3	1.5	0.71	1.68		06/26/16 19:08	100-41-4	
Methyl-tert-butyl ether	**<0.51**	ug/m3	6.2	0.51	1.68		06/26/16 19:08	1634-04-4	
Toluene	**0.91J**	ug/m3	1.3	0.26	1.68		06/26/16 19:08	108-88-3	
1,2,4-Trimethylbenzene	**5.9**	ug/m3	1.7	0.21	1.68		06/26/16 19:08	95-63-6	
1,3,5-Trimethylbenzene	**1.5J**	ug/m3	1.7	0.31	1.68		06/26/16 19:08	108-67-8	
m&p-Xylene	**1.7J**	ug/m3	3.0	1.3	1.68		06/26/16 19:08	179601-23-1	
o-Xylene	**1.2J**	ug/m3	1.5	0.59	1.68		06/26/16 19:08	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
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(612)607-1700

QUALITY CONTROL DATA

Project: Jump River
Pace Project No.: 10352680

QC Batch: AIR/26206
QC Batch Method: TO-15
Analysis Method: TO-15
Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10352680001, 10352680002

METHOD BLANK: 2295916
Matrix: Air
Associated Lab Samples: 10352680001, 10352680002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	<0.12	1.0	06/26/16 13:11	
1,3,5-Trimethylbenzene	ug/m3	<0.18	1.0	06/26/16 13:11	
Benzene	ug/m3	<0.12	0.32	06/26/16 13:11	
Ethylbenzene	ug/m3	<0.42	0.88	06/26/16 13:11	
m&p-Xylene	ug/m3	<0.79	1.8	06/26/16 13:11	
Methyl-tert-butyl ether	ug/m3	<0.30	3.7	06/26/16 13:11	
o-Xylene	ug/m3	<0.35	0.88	06/26/16 13:11	
Toluene	ug/m3	<0.15	0.77	06/26/16 13:11	

LABORATORY CONTROL SAMPLE: 2295917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	50	57.7	115	57-143	
1,3,5-Trimethylbenzene	ug/m3	50	57.3	115	54-147	
Benzene	ug/m3	32.5	35.0	108	62-141	
Ethylbenzene	ug/m3	44.2	48.1	109	59-149	
m&p-Xylene	ug/m3	88.3	87.2	99	59-146	
Methyl-tert-butyl ether	ug/m3	91.6	92.4	101	64-135	
o-Xylene	ug/m3	44.2	46.3	105	54-149	
Toluene	ug/m3	38.3	30.2	79	61-138	

SAMPLE DUPLICATE: 2296007

Parameter	Units	60221632002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	3.2	2.9	9	25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.27		25	
Benzene	ug/m3	0.93	0.85	9	25	
Ethylbenzene	ug/m3	1.1J	0.94J		25	
m&p-Xylene	ug/m3	4.0	3.6	11	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.45		25	
o-Xylene	ug/m3	1.5	1.4	5	25	
Toluene	ug/m3	7.9	7.4	7	25	

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, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Jump River
Pace Project No.: 10352680

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Jump River
Pace Project No.: 10352680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10352680001	**Crawlspace**	TO-15	AIR/26206		
10352680002	**VP-1**	TO-15	AIR/26206		

10352680

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AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

25222

Page: 1 of 1

Section A Required Client Information:
Company: Meridian Env Cnltg
Address: 2711 N. Elco Rd
Fall Creek WI 54742
Email To: kshimko.meridianenv@gmail.com
Phone: 715-832-6608 Fax:
Requested Due Date/TAT:

Section B Required Project Information:
Report To: Ken Shimko
Copy To:
Purchase Order No.:
Project Name: Jump River
Project Number:

Section C Invoice Information:
Attention: Ken Shimko
Company Name: Meridian Env. Cnltg
Address: 2711 N. Elco Rd Fall Creek WI 54742
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

Program: UST / Superfund / Emissions / Clean Air Act / Voluntary Clean Up / Dry Clean / RCRA / Other____

Location of Sampling by State: WI

Reporting Units: ug/m³ X mg/m³ ___ PPBV ___ PPMV ___ Other ___

Report Level II.___ III.___ IV.___ Other____

Section D Required Client Information

Valid Media Codes: Tedlar Bag TB; 1 Liter Summa Can 1LC; 6 Liter Summa Can 6LC; Low Volume Puff LVP; High Volume Puff HVP; Other PM10

Method: PM10, 3C- Fixed Gas (%), TO-3, TO-3M (Methane), TO-4 (PCBs), TO-13 (PAH), TO-14, TO-15, TO15 Short List*, PVOC

ITEM #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	Composite Start Date	Composite Start Time	Composite End Date	Composite End Time	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method	Pace Lab ID
1	Crawlspace	6L		6-17	9:59	6-17	10:36	30	4	0999		X (TO15 Short List*)	001
2	VP-1	6L		6-17	10:12	6-17	10:45	28	3	2127		X (TO15 Short List*)	002
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

Comments :

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6-17-16	2pm	Fed Ex	6-17-16	2pm
			[signature] Pace	62016	0920

SAMPLE CONDITIONS: Temp in °C: Amb; Received on Ice Y/N; Custody Sealed Cooler Y/N; Samples Intact Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Ken Shimko
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 6-17-16

ORIGINAL

Pace Analytical	Document Name: Air Sample Condition Upon Receipt	Document Revised: 26APR2016 Page 1 of 1
	Document No.: F-MN-A-106-rev.11	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Meridian

Project #: WO# : 10352680

10352680

Courier: ☑ Fed Ex ☐ UPS ☐ Speedee ☐ Client ☐ Commercial ☐ Pace ☐ Other:

Tracking Number: 663750371863

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Tin Can ☐ Other: Temp Blank rec: ☐ Yes ☒ No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): X Thermom. Used: ☐ B88A912167504 ☐ B88A0143310098 ☐ 151401163 ☐ 151401164

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 6/20/16

Type of ice Received ☐ Blue ☐ Wet ☒ None

				Comments:
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 and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Media: (Air Can) Airbag Filter TDT Passive				11.
Sample Labels Match COC?	☑ Yes	☑ No	☐ N/A	12. No ID on Can tags

Samples Received:

Canisters			Canisters		
Sample Number	Can ID	Flow Controller ID	Sample Number	Can ID	Flow Controller ID
Crawlspace	0949	0777			
VP-1	2127	0658			

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Carolynne Hunt Date: 6/20/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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

December 18, 2015

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

RE: Project: JUMP RIVER
Pace Project No.: 40125998

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on December 11, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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

CERTIFICATIONS

Project: JUMP RIVER
Pace Project No.: 40125998

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JUMP RIVER
Pace Project No.: 40125998

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40125998001	MW-1	Water	12/08/15 00:00	12/11/15 07:15
40125998002	MW-2	Water	12/08/15 00:00	12/11/15 07:15
40125998003	MW-3	Water	12/08/15 00:00	12/11/15 07:15
40125998004	MW-5	Water	12/08/15 00:00	12/11/15 07:15
40125998005	MW-6	Water	12/08/15 00:00	12/11/15 07:15
40125998006	MW-7	Water	12/08/15 00:00	12/11/15 07:15
40125998007	MW-9A	Water	12/08/15 00:00	12/11/15 07:15
40125998008	MW-9B	Water	12/08/15 00:00	12/11/15 07:15
40125998009	BAR	Water	12/08/15 00:00	12/11/15 07:15
40125998010	STORE OUT	Water	12/08/15 00:00	12/11/15 07:15
40125998011	COM CTR	Water	12/08/15 00:00	12/11/15 07:15
40125998012	14789	Water	12/08/15 00:00	12/11/15 07:15
40125998013	8890	Water	12/08/15 00:00	12/11/15 07:15
40125998014	8910	Water	12/08/15 00:00	12/11/15 07:15
40125998015	8897	Water	12/08/15 00:00	12/11/15 07:15
40125998016	TRIP BLANK	Water	12/08/15 00:00	12/11/15 07:15

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SAMPLE ANALYTE COUNT

Project: JUMP RIVER
Pace Project No.: 40125998

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40125998001	MW-1	WI MOD GRO	LCF	9	PASI-G
40125998002	MW-2	WI MOD GRO	LCF	9	PASI-G
40125998003	MW-3	WI MOD GRO	LCF	9	PASI-G
40125998004	MW-5	WI MOD GRO	LCF	9	PASI-G
40125998005	MW-6	WI MOD GRO	LCF	9	PASI-G
40125998006	MW-7	WI MOD GRO	LCF	9	PASI-G
40125998007	MW-9A	WI MOD GRO	LCF	9	PASI-G
40125998008	MW-9B	WI MOD GRO	PMS	9	PASI-G
40125998009	BAR	WI MOD GRO	LCF	9	PASI-G
40125998010	STORE OUT	WI MOD GRO	LCF	9	PASI-G
40125998011	COM CTR	WI MOD GRO	LCF	9	PASI-G
40125998012	14789	WI MOD GRO	LCF	9	PASI-G
40125998013	8890	WI MOD GRO	LCF	9	PASI-G
40125998014	8910	WI MOD GRO	LCF	9	PASI-G
40125998015	8897	WI MOD GRO	LCF	9	PASI-G
40125998016	TRIP BLANK	WI MOD GRO	LCF	9	PASI-G

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PROJECT NARRATIVE

Project: JUMP RIVER
Pace Project No.: 40125998

Method: WI **MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: December 18, 2015

General Information:
16 samples were analyzed for WI MOD GRO. 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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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40125998

Sample: MW-1 **Lab ID: 40125998001** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**102**	ug/L	2.0	0.79	2		12/15/15 23:29	71-43-2	
Ethylbenzene	**230**	ug/L	2.0	0.79	2		12/15/15 23:29	100-41-4	
Methyl-tert-butyl ether	**4.2**	ug/L	2.0	0.97	2		12/15/15 23:29	1634-04-4	
Naphthalene	**28.5**	ug/L	2.0	0.85	2		12/15/15 23:29	91-20-3	
Toluene	**229**	ug/L	2.0	0.78	2		12/15/15 23:29	108-88-3	
1,2,4-Trimethylbenzene	**165**	ug/L	2.0	0.84	2		12/15/15 23:29	95-63-6	
1,3,5-Trimethylbenzene	**16.3**	ug/L	2.0	0.83	2		12/15/15 23:29	108-67-8	
Xylene (Total)	**276**	ug/L	6.0	2.5	2		12/15/15 23:29	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	110	%	80-120		2		12/15/15 23:29	98-08-8	

Sample: MW-2 **Lab ID: 40125998002** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**21.0**	ug/L	5.0	2.0	5		12/15/15 23:04	71-43-2	
Ethylbenzene	**135**	ug/L	5.0	2.0	5		12/15/15 23:04	100-41-4	
Methyl-tert-butyl ether	**10.8**	ug/L	5.0	2.4	5		12/15/15 23:04	1634-04-4	
Naphthalene	**68.2**	ug/L	5.0	2.1	5		12/15/15 23:04	91-20-3	
Toluene	**33.9**	ug/L	5.0	1.9	5		12/15/15 23:04	108-88-3	
1,2,4-Trimethylbenzene	**286**	ug/L	5.0	2.1	5		12/15/15 23:04	95-63-6	
1,3,5-Trimethylbenzene	**75.6**	ug/L	5.0	2.1	5		12/15/15 23:04	108-67-8	
Xylene (Total)	**238**	ug/L	15.0	6.2	5		12/15/15 23:04	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		5		12/15/15 23:04	98-08-8	

Sample: MW-3 **Lab ID: 40125998003** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**378**	ug/L	40.0	15.8	40		12/15/15 22:12	71-43-2	
Ethylbenzene	**1580**	ug/L	40.0	15.7	40		12/15/15 22:12	100-41-4	
Methyl-tert-butyl ether	**<19.4**	ug/L	40.0	19.4	40		12/15/15 22:12	1634-04-4	
Naphthalene	**443**	ug/L	40.0	17.0	40		12/15/15 22:12	91-20-3	
Toluene	**4340**	ug/L	40.0	15.5	40		12/15/15 22:12	108-88-3	
1,2,4-Trimethylbenzene	**2570**	ug/L	40.0	16.7	40		12/15/15 22:12	95-63-6	
1,3,5-Trimethylbenzene	**765**	ug/L	40.0	16.6	40		12/15/15 22:12	108-67-8	
Xylene (Total)	**6600**	ug/L	120	49.9	40		12/15/15 22:12	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		40		12/15/15 22:12	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40125998

Sample: MW-5 **Lab ID: 40125998004** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**52.4**	ug/L	25.0	9.9	25		12/15/15 22:38	71-43-2	
Ethylbenzene	**826**	ug/L	25.0	9.8	25		12/15/15 22:38	100-41-4	
Methyl-tert-butyl ether	**<12.1**	ug/L	25.0	12.1	25		12/15/15 22:38	1634-04-4	
Naphthalene	**432**	ug/L	25.0	10.6	25		12/15/15 22:38	91-20-3	
Toluene	**439**	ug/L	25.0	9.7	25		12/15/15 22:38	108-88-3	
1,2,4-Trimethylbenzene	**2680**	ug/L	25.0	10.4	25		12/15/15 22:38	95-63-6	
1,3,5-Trimethylbenzene	**833**	ug/L	25.0	10.4	25		12/15/15 22:38	108-67-8	
Xylene (Total)	**2110**	ug/L	75.0	31.2	25		12/15/15 22:38	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		25		12/15/15 22:38	98-08-8	

Sample: MW-6 **Lab ID: 40125998005** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**43.3**	ug/L	10.0	4.0	10		12/15/15 20:30	71-43-2	
Ethylbenzene	**726**	ug/L	10.0	3.9	10		12/15/15 20:30	100-41-4	
Methyl-tert-butyl ether	**8.4J**	ug/L	10.0	4.8	10		12/15/15 20:30	1634-04-4	
Naphthalene	**229**	ug/L	10.0	4.2	10		12/15/15 20:30	91-20-3	
Toluene	**912**	ug/L	10.0	3.9	10		12/15/15 20:30	108-88-3	
1,2,4-Trimethylbenzene	**1470**	ug/L	10.0	4.2	10		12/15/15 20:30	95-63-6	
1,3,5-Trimethylbenzene	**469**	ug/L	10.0	4.2	10		12/15/15 20:30	108-67-8	
Xylene (Total)	**2500**	ug/L	30.0	12.5	10		12/15/15 20:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		10		12/15/15 20:30	98-08-8	

Sample: MW-7 **Lab ID: 40125998006** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**3.6**	ug/L	1.0	0.40	1		12/16/15 00:21	71-43-2	
Ethylbenzene	**45.8**	ug/L	1.0	0.39	1		12/16/15 00:21	100-41-4	
Methyl-tert-butyl ether	**7.6**	ug/L	1.0	0.48	1		12/16/15 00:21	1634-04-4	
Naphthalene	**24.1**	ug/L	1.0	0.42	1		12/16/15 00:21	91-20-3	
Toluene	**4.1**	ug/L	1.0	0.39	1		12/16/15 00:21	108-88-3	
1,2,4-Trimethylbenzene	**115**	ug/L	1.0	0.42	1		12/16/15 00:21	95-63-6	
1,3,5-Trimethylbenzene	**36.5**	ug/L	1.0	0.42	1		12/16/15 00:21	108-67-8	
Xylene (Total)	**75.5**	ug/L	3.0	1.2	1		12/16/15 00:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		1		12/16/15 00:21	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40125998

Sample: MW-9A Lab ID: **40125998007** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**0.74J**	ug/L	1.0	0.40	1		12/15/15 15:22	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 15:22	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		12/15/15 15:22	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 15:22	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 15:22	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 15:22	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 15:22	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 15:22	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		12/15/15 15:22	98-08-8	

Sample: MW-9B Lab ID: **40125998008** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**0.61J**	ug/L	1.0	0.40	1		12/16/15 11:15	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/16/15 11:15	100-41-4	
Methyl-tert-butyl ether	**0.50J**	ug/L	1.0	0.48	1		12/16/15 11:15	1634-04-4	
Naphthalene	**0.46J**	ug/L	1.0	0.42	1		12/16/15 11:15	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/16/15 11:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/16/15 11:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/16/15 11:15	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/16/15 11:15	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		1		12/16/15 11:15	98-08-8	

Sample: BAR Lab ID: **40125998009** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		12/15/15 15:47	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 15:47	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		12/15/15 15:47	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 15:47	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 15:47	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 15:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 15:47	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 15:47	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		12/15/15 15:47	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40125998

Sample: STORE OUT **Lab ID: 40125998010** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**4.2**	ug/L	1.0	0.40	1		12/15/15 16:13	71-43-2	
Ethylbenzene	**0.64J**	ug/L	1.0	0.39	1		12/15/15 16:13	100-41-4	
Methyl-tert-butyl ether	**2.7**	ug/L	1.0	0.48	1		12/15/15 16:13	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 16:13	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 16:13	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 16:13	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 16:13	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 16:13	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/15/15 16:13	98-08-8	

Sample: COM CTR **Lab ID: 40125998011** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		12/15/15 16:38	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 16:38	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		12/15/15 16:38	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 16:38	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 16:38	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 16:38	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 16:38	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 16:38	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		12/15/15 16:38	98-08-8	

Sample: 14789 **Lab ID: 40125998012** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**5.2**	ug/L	1.0	0.40	1		12/15/15 17:04	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 17:04	100-41-4	
Methyl-tert-butyl ether	**1.3**	ug/L	1.0	0.48	1		12/15/15 17:04	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:04	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 17:04	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:04	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 17:04	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/15/15 17:04	98-08-8	

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40125998

Sample: 8890 **Lab ID: 40125998013** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		12/15/15 17:30	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 17:30	100-41-4	
Methyl-tert-butyl ether	**0.95J**	ug/L	1.0	0.48	1		12/15/15 17:30	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:30	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 17:30	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:30	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:30	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 17:30	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/15/15 17:30	98-08-8	

Sample: 8910 **Lab ID: 40125998014** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		12/15/15 17:55	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 17:55	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		12/15/15 17:55	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:55	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 17:55	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 17:55	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 17:55	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/15/15 17:55	98-08-8	

Sample: 8897 **Lab ID: 40125998015** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		12/15/15 18:21	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 18:21	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		12/15/15 18:21	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 18:21	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 18:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 18:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 18:21	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 18:21	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		12/15/15 18:21	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40125998

Sample: TRIP BLANK **Lab ID: 40125998016** Collected: 12/08/15 00:00 Received: 12/11/15 07:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		12/15/15 19:12	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 19:12	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		12/15/15 19:12	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 19:12	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		12/15/15 19:12	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 19:12	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		12/15/15 19:12	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		12/15/15 19:12	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/15/15 19:12	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JUMP RIVER
Pace Project No.: 40125998

QC Batch: GCV/15476 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40125998001, 40125998002, 40125998003, 40125998004, 40125998005, 40125998006, 40125998007, 40125998009, 40125998010, 40125998011, 40125998012, 40125998013, 40125998014, 40125998015, 40125998016

METHOD BLANK: 1273247 Matrix: Water
Associated Lab Samples: 40125998001, 40125998002, 40125998003, 40125998004, 40125998005, 40125998006, 40125998007, 40125998009, 40125998010, 40125998011, 40125998012, 40125998013, 40125998014, 40125998015, 40125998016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	12/15/15 13:39	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	12/15/15 13:39	
Benzene	ug/L	<0.40	1.0	12/15/15 13:39	
Ethylbenzene	ug/L	<0.39	1.0	12/15/15 13:39	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	12/15/15 13:39	
Naphthalene	ug/L	<0.42	1.0	12/15/15 13:39	
Toluene	ug/L	<0.39	1.0	12/15/15 13:39	
Xylene (Total)	ug/L	<1.2	3.0	12/15/15 13:39	
a,a,a-Trifluorotoluene (S)	%	102	80-120	12/15/15 13:39	

LABORATORY CONTROL SAMPLE & LCSD: 1273248 1273249

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.3	20.7	102	103	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	20.0	20.3	100	102	80-120	2	20	
Benzene	ug/L	20	21.3	21.5	107	107	80-120	1	20	
Ethylbenzene	ug/L	20	20.8	21.1	104	105	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.5	21.4	103	107	80-120	4	20	
Naphthalene	ug/L	20	20.0	21.3	100	106	80-120	6	20	
Toluene	ug/L	20	21.1	21.6	106	108	80-120	2	20	
Xylene (Total)	ug/L	60	61.7	62.8	103	105	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				101	104	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1273809 1273810

Parameter	Units	40125998005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	1470	200	200	1770	1830	150	181	29-200	3	20	
1,3,5-Trimethylbenzene	ug/L	469	200	200	729	748	130	139	57-171	3	20	
Benzene	ug/L	43.3	200	200	254	257	106	107	69-150	1	20	
Ethylbenzene	ug/L	726	200	200	923	957	98	116	80-146	4	20	
Methyl-tert-butyl ether	ug/L	8.4J	200	200	209	217	101	105	80-120	4	20	
Naphthalene	ug/L	229	200	200	433	462	102	117	66-137	6	20	
Toluene	ug/L	912	200	200	1110	1160	101	123	67-156	4	20	
Xylene (Total)	ug/L	2500	600	600	3150	3240	108	123	71-162	3	20	

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

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QUALITY CONTROL DATA

Project: JUMP RIVER
Pace Project No.: 40125998

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1273809 1273810

Parameter	Units	40125998005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						100	100	80-120			

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

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QUALITY CONTROL DATA

Project: JUMP RIVER
Pace Project No.: 40125998

QC Batch: GCV/15490 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40125998008

METHOD BLANK: 1274600 Matrix: Water
Associated Lab Samples: 40125998008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	12/16/15 09:07	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	12/16/15 09:07	
Benzene	ug/L	<0.40	1.0	12/16/15 09:07	
Ethylbenzene	ug/L	<0.39	1.0	12/16/15 09:07	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	12/16/15 09:07	
Naphthalene	ug/L	<0.42	1.0	12/16/15 09:07	
Toluene	ug/L	<0.39	1.0	12/16/15 09:07	
Xylene (Total)	ug/L	<1.2	3.0	12/16/15 09:07	
a,a,a-Trifluorotoluene (S)	%	101	80-120	12/16/15 09:07	

LABORATORY CONTROL SAMPLE & LCSD: 1274601 1274602

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	22.2	22.0	111	110	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	21.6	21.5	108	107	80-120	0	20	
Benzene	ug/L	20	21.4	21.7	107	108	80-120	1	20	
Ethylbenzene	ug/L	20	21.5	21.6	107	108	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.4	20.8	102	104	80-120	2	20	
Naphthalene	ug/L	20	20.3	22.4	101	112	80-120	10	20	
Toluene	ug/L	20	21.4	21.7	107	109	80-120	1	20	
Xylene (Total)	ug/L	60	64.4	64.9	107	108	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1274768 1274769

Parameter	Units	40126103001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	21.6	21.1	108	106	29-200	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.9	20.5	104	102	57-171	2	20	
Benzene	ug/L	<0.40	20	20	21.9	21.9	110	109	69-150	0	20	
Ethylbenzene	ug/L	<0.39	20	20	22.1	21.9	111	109	80-146	1	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	19.9	21.0	99	105	80-120	5	20	
Naphthalene	ug/L	<0.42	20	20	21.4	23.0	107	115	66-137	7	20	
Toluene	ug/L	<0.39	20	20	22.0	22.0	110	110	67-156	0	20	
Xylene (Total)	ug/L	<1.2	60	60	65.2	64.6	109	108	71-162	1	20	
a,a,a-Trifluorotoluene (S)	%						102	102	80-120			

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: JUMP RIVER
Pace Project No.: 40125998

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JUMP RIVER
Pace Project No.: 40125998

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40125998001	MW-1	WI MOD GRO	GCV/15476		
40125998002	MW-2	WI MOD GRO	GCV/15476		
40125998003	MW-3	WI MOD GRO	GCV/15476		
40125998004	MW-5	WI MOD GRO	GCV/15476		
40125998005	MW-6	WI MOD GRO	GCV/15476		
40125998006	MW-7	WI MOD GRO	GCV/15476		
40125998007	MW-9A	WI MOD GRO	GCV/15476		
40125998008	MW-9B	WI MOD GRO	GCV/15490		
40125998009	BAR	WI MOD GRO	GCV/15476		
40125998010	STORE OUT	WI MOD GRO	GCV/15476		
40125998011	COM CTR	WI MOD GRO	GCV/15476		
40125998012	14789	WI MOD GRO	GCV/15476		
40125998013	8890	WI MOD GRO	GCV/15476		
40125998014	8910	WI MOD GRO	GCV/15476		
40125998015	8897	WI MOD GRO	GCV/15476		
40125998016	TRIP BLANK	WI MOD GRO	GCV/15476		

40125998

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

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MM.

CHAIN OF COUNTODY

(Please Print Clearly)

Company Name:	Meridian En Cs A
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-579-0723
Project Number:	
Project Name:	Jump River
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian En Cst
Mail To Address:	2711 N Elco Rd fall Creek WI 54742
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

FILTERED? (YES/NO) — Y/N
PRESERVATION (CODE)* — Pick Letter

Analyses Requested: PVOC + Naph

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, Sl = 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	PVOC + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	12/8		GW	X		3-40ml VB	
002	MW-2	↓		↓	↓		↓	
003	MW-3							
004	MW-5							
005	MW-6							
006	MW-7							
007	MW-9A							
008	MW-9B							
009	Bar							
010	Store Out							
011	Com Ctr							
012	14789							
013	8890							

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:
Durham	12/11/15 0715	Susan Kufe	12/11/15 0715

See Pg Two →

PACE Project No. 40125998

Receipt Temp = ROT °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

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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 Gr
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-579-0723
Project Number:	
Project Name:	Jump River
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Meridian
Mail To Company:	Ken Shimko
Mail To Address:	Fall Creek
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: DRO+Napth	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	8910	12/8		GW			X		3-40ml VB	
015	KS ~~8896~~ 8897	↓		GW			X		+	
016	Trip Blank								2-40ml VB	
	For shipment Lab added to COC 12/11/15 SW									

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time: 12/10/15 9am	Received By: Dunham	Date/Time: 12/10/15 9am
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: Dunham	Date/Time: 12-11-15 0715	Received By: Susan Kilgore	Date/Time: 12-11-15 0715
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Fax:				

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40125998
Receipt Temp = 0.1 °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 Condition Upon Receipt

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

Pace Analytical™

Client Name: Meridian Durham

Project # WO# : 40125998

40125998

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other:

Tracking #: 1099224

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

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

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A Type of Ice: (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RDI /Corr: Biological Tissue is Frozen: ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 12-11-15
Initials: SGW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: 12-11-15 SGW	☒Yes ☐No ☐N/A	2. No collect time 12-11-15 SGW
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 ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No Collect date or time on Outside. all samples. 010-ID is Store 12-11-15 SGW
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☐No 12-11-15 SGW	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	14.
Trip Blank Present:	☐Yes ☐No ☒N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution: Original and copy of COC in shipment 12-11-15 SGW

Project Manager Review: Date: 12/11/15

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(920)469-2436

April 12, 2016

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

RE: Project: JUMP RIVER
Pace Project No.: 40130213

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on April 05, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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

CERTIFICATIONS

Project: JUMP RIVER
Pace Project No.: 40130213

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: JUMP RIVER
Pace Project No.: 40130213

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40130213001	MW-2	Water	03/31/16 00:00	04/05/16 08:00
40130213002	MW-3	Water	03/31/16 00:00	04/05/16 08:00
40130213003	MW-5	Water	03/31/16 00:00	04/05/16 08:00
40130213004	MW-6	Water	03/31/16 00:00	04/05/16 08:00
40130213005	MW-7	Water	03/31/16 00:00	04/05/16 08:00
40130213006	MW-9A	Water	03/31/16 00:00	04/05/16 08:00
40130213007	MW-9B	Water	03/31/16 00:00	04/05/16 08:00
40130213008	STORE AFTER	Water	03/31/16 00:00	04/05/16 08:00
40130213009	STORE B4	Water	03/31/16 00:00	04/05/16 08:00
40130213010	TRIP BLANK	Water	03/31/16 00:00	04/05/16 08:00

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SAMPLE ANALYTE COUNT

Project: JUMP RIVER
Pace Project No.: 40130213

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40130213001	MW-2	WI MOD GRO	PMS	9	PASI-G
40130213002	MW-3	WI MOD GRO	PMS	9	PASI-G
40130213003	MW-5	WI MOD GRO	PMS	9	PASI-G
40130213004	MW-6	WI MOD GRO	PMS	9	PASI-G
40130213005	MW-7	WI MOD GRO	PMS	9	PASI-G
40130213006	MW-9A	WI MOD GRO	PMS	9	PASI-G
40130213007	MW-9B	WI MOD GRO	PMS	9	PASI-G
40130213008	STORE AFTER	WI MOD GRO	PMS	9	PASI-G
40130213009	STORE B4	WI MOD GRO	PMS	9	PASI-G
40130213010	TRIP BLANK	WI MOD GRO	JSK	9	PASI-G

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PROJECT NARRATIVE

Project: JUMP RIVER
Pace Project No.: 40130213

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: April 12, 2016

General Information:
10 samples were analyzed for WI MOD GRO. 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.

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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(920)469-2436

ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40130213

Sample: MW-2 **Lab ID: 40130213001** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**39.2**	ug/L	10.0	4.0	10		04/06/16 19:24	71-43-2	
Ethylbenzene	**183**	ug/L	10.0	3.9	10		04/06/16 19:24	100-41-4	
Methyl-tert-butyl ether	**10J**	ug/L	10.0	4.8	10		04/06/16 19:24	1634-04-4	
Naphthalene	**74.7**	ug/L	10.0	4.2	10		04/06/16 19:24	91-20-3	
Toluene	**83.7**	ug/L	10.0	3.9	10		04/06/16 19:24	108-88-3	
1,2,4-Trimethylbenzene	**481**	ug/L	10.0	4.2	10		04/06/16 19:24	95-63-6	
1,3,5-Trimethylbenzene	**161**	ug/L	10.0	4.2	10		04/06/16 19:24	108-67-8	
Xylene (Total)	**362**	ug/L	30.0	12.5	10		04/06/16 19:24	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		10		04/06/16 19:24	98-08-8	

Sample: MW-3 **Lab ID: 40130213002** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**371**	ug/L	20.0	7.9	20		04/06/16 18:07	71-43-2	
Ethylbenzene	**1550**	ug/L	20.0	7.9	20		04/06/16 18:07	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		04/06/16 18:07	1634-04-4	
Naphthalene	**456**	ug/L	20.0	8.5	20		04/06/16 18:07	91-20-3	
Toluene	**3980**	ug/L	20.0	7.8	20		04/06/16 18:07	108-88-3	
1,2,4-Trimethylbenzene	**2630**	ug/L	20.0	8.4	20		04/06/16 18:07	95-63-6	
1,3,5-Trimethylbenzene	**734**	ug/L	20.0	8.3	20		04/06/16 18:07	108-67-8	
Xylene (Total)	**6430**	ug/L	60.0	24.9	20		04/06/16 18:07	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		20		04/06/16 18:07	98-08-8	

Sample: MW-5 **Lab ID: 40130213003** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**42.5**	ug/L	20.0	7.9	20		04/06/16 18:33	71-43-2	
Ethylbenzene	**666**	ug/L	20.0	7.9	20		04/06/16 18:33	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		04/06/16 18:33	1634-04-4	
Naphthalene	**364**	ug/L	20.0	8.5	20		04/06/16 18:33	91-20-3	
Toluene	**242**	ug/L	20.0	7.8	20		04/06/16 18:33	108-88-3	
1,2,4-Trimethylbenzene	**2190**	ug/L	20.0	8.4	20		04/06/16 18:33	95-63-6	
1,3,5-Trimethylbenzene	**617**	ug/L	20.0	8.3	20		04/06/16 18:33	108-67-8	
Xylene (Total)	**1380**	ug/L	60.0	24.9	20		04/06/16 18:33	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		20		04/06/16 18:33	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40130213

Sample: MW-6 **Lab ID: 40130213004** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**9.9J**	ug/L	10.0	4.0	10		04/06/16 18:59	71-43-2	
Ethylbenzene	**287**	ug/L	10.0	3.9	10		04/06/16 18:59	100-41-4	
Methyl-tert-butyl ether	**7.1J**	ug/L	10.0	4.8	10		04/06/16 18:59	1634-04-4	
Naphthalene	**117**	ug/L	10.0	4.2	10		04/06/16 18:59	91-20-3	
Toluene	**245**	ug/L	10.0	3.9	10		04/06/16 18:59	108-88-3	
1,2,4-Trimethylbenzene	**1160**	ug/L	10.0	4.2	10		04/06/16 18:59	95-63-6	
1,3,5-Trimethylbenzene	**400**	ug/L	10.0	4.2	10		04/06/16 18:59	108-67-8	
Xylene (Total)	**1050**	ug/L	30.0	12.5	10		04/06/16 18:59	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		10		04/06/16 18:59	98-08-8	

Sample: MW-7 **Lab ID: 40130213005** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**11.7**	ug/L	4.0	1.6	4		04/06/16 19:50	71-43-2	
Ethylbenzene	**58.4**	ug/L	4.0	1.6	4		04/06/16 19:50	100-41-4	
Methyl-tert-butyl ether	**5.3**	ug/L	4.0	1.9	4		04/06/16 19:50	1634-04-4	
Naphthalene	**28.4**	ug/L	4.0	1.7	4		04/06/16 19:50	91-20-3	
Toluene	**9.2**	ug/L	4.0	1.6	4		04/06/16 19:50	108-88-3	
1,2,4-Trimethylbenzene	**95.3**	ug/L	4.0	1.7	4		04/06/16 19:50	95-63-6	
1,3,5-Trimethylbenzene	**27.5**	ug/L	4.0	1.7	4		04/06/16 19:50	108-67-8	
Xylene (Total)	**74.2**	ug/L	12.0	5.0	4		04/06/16 19:50	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	110	%	80-120		4		04/06/16 19:50	98-08-8	

Sample: MW-9A **Lab ID: 40130213006** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**0.95J**	ug/L	1.0	0.40	1		04/06/16 14:17	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 14:17	100-41-4	
Methyl-tert-butyl ether	**0.49J**	ug/L	1.0	0.48	1		04/06/16 14:17	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 14:17	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 14:17	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 14:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 14:17	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		04/06/16 14:17	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		04/06/16 14:17	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40130213

Sample: MW-9B **Lab ID: 40130213007** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		04/06/16 20:41	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 20:41	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		04/06/16 20:41	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 20:41	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 20:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 20:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 20:41	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		04/06/16 20:41	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		04/06/16 20:41	98-08-8	

Sample: STORE AFTER **Lab ID: 40130213008** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		04/06/16 21:06	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 21:06	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		04/06/16 21:06	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 21:06	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 21:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 21:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 21:06	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		04/06/16 21:06	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		04/06/16 21:06	98-08-8	

Sample: STORE B4 **Lab ID: 40130213009** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**1.5**	ug/L	1.0	0.40	1		04/06/16 21:32	71-43-2	
Ethylbenzene	**0.70J**	ug/L	1.0	0.39	1		04/06/16 21:32	100-41-4	
Methyl-tert-butyl ether	**2.1**	ug/L	1.0	0.48	1		04/06/16 21:32	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 21:32	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		04/06/16 21:32	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 21:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/06/16 21:32	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		04/06/16 21:32	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		04/06/16 21:32	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40130213

Sample: TRIP BLANK **Lab ID: 40130213010** Collected: 03/31/16 00:00 Received: 04/05/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		04/08/16 18:03	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		04/08/16 18:03	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		04/08/16 18:03	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		04/08/16 18:03	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		04/08/16 18:03	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/08/16 18:03	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		04/08/16 18:03	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		04/08/16 18:03	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		04/08/16 18:03	98-08-8	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: JUMP RIVER
Pace Project No.: 40130213

QC Batch: GCV/15878 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40130213001, 40130213002, 40130213003, 40130213004, 40130213005, 40130213006, 40130213007, 40130213008, 40130213009

METHOD BLANK: 1315605 Matrix: Water
Associated Lab Samples: 40130213001, 40130213002, 40130213003, 40130213004, 40130213005, 40130213006, 40130213007, 40130213008, 40130213009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	04/06/16 08:49	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	04/06/16 08:49	
Benzene	ug/L	<0.40	1.0	04/06/16 08:49	
Ethylbenzene	ug/L	<0.39	1.0	04/06/16 08:49	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	04/06/16 08:49	
Naphthalene	ug/L	<0.42	1.0	04/06/16 08:49	
Toluene	ug/L	<0.39	1.0	04/06/16 08:49	
Xylene (Total)	ug/L	<1.2	3.0	04/06/16 08:49	
a,a,a-Trifluorotoluene (S)	%	106	80-120	04/06/16 08:49	

LABORATORY CONTROL SAMPLE & LCSD: 1315606 1315607

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.2	21.4	101	107	80-120	6	20	
1,3,5-Trimethylbenzene	ug/L	20	19.5	20.6	97	103	80-120	6	20	
Benzene	ug/L	20	20.6	21.6	103	108	80-120	5	20	
Ethylbenzene	ug/L	20	20.2	21.3	101	107	80-120	5	20	
Methyl-tert-butyl ether	ug/L	20	21.0	20.8	105	104	80-120	1	20	
Naphthalene	ug/L	20	21.6	21.6	108	108	80-120	0	20	
Toluene	ug/L	20	20.8	21.9	104	110	80-120	5	20	
Xylene (Total)	ug/L	60	60.5	63.7	101	106	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				107	107	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1315803 1315804

Parameter	Units	40130211009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	122	200	200	342	347	110	112	29-200	2	20	
1,3,5-Trimethylbenzene	ug/L	181	200	200	397	396	108	107	57-171	0	20	
Benzene	ug/L	85.6	200	200	303	300	109	107	69-150	1	20	
Ethylbenzene	ug/L	144	200	200	366	365	111	110	80-146	0	20	
Methyl-tert-butyl ether	ug/L	5.2J	200	200	210	213	102	104	80-120	1	20	
Naphthalene	ug/L	195	200	200	405	416	105	111	66-137	3	20	
Toluene	ug/L	87.5	200	200	315	312	113	112	67-156	1	20	
Xylene (Total)	ug/L	482	600	600	1130	1130	108	108	71-162	0	20	
a,a,a-Trifluorotoluene (S)	%						109	109	80-120			

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: JUMP RIVER
Pace Project No.: 40130213

QC Batch: GCV/15881
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40130213010

METHOD BLANK: 1316308 Matrix: Water
Associated Lab Samples: 40130213010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	04/07/16 08:14	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	04/07/16 08:14	
Benzene	ug/L	<0.40	1.0	04/07/16 08:14	
Ethylbenzene	ug/L	<0.39	1.0	04/07/16 08:14	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	04/07/16 08:14	
Naphthalene	ug/L	<0.42	1.0	04/07/16 08:14	
Toluene	ug/L	<0.39	1.0	04/07/16 08:14	
Xylene (Total)	ug/L	<1.2	3.0	04/07/16 08:14	
a,a,a-Trifluorotoluene (S)	%	103	80-120	04/07/16 08:14	

LABORATORY CONTROL SAMPLE & LCSD: 1316309 1316310

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.9	22.3	110	112	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	21.4	21.8	107	109	80-120	2	20	
Benzene	ug/L	20	22.4	22.2	112	111	80-120	1	20	
Ethylbenzene	ug/L	20	22.0	22.0	110	110	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	21.8	21.1	109	106	80-120	3	20	
Naphthalene	ug/L	20	22.4	22.2	112	111	80-120	1	20	
Toluene	ug/L	20	22.3	22.2	111	111	80-120	0	20	
Xylene (Total)	ug/L	60	66.0	66.3	110	110	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				103	103	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1316660 1316661

Parameter	Units	40130222004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	21.1	21.8	105	109	29-200	4	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.7	21.5	103	107	57-171	4	20	
Benzene	ug/L	<0.40	20	20	21.4	22.5	107	112	69-150	5	20	
Ethylbenzene	ug/L	<0.39	20	20	21.5	22.8	108	114	80-146	6	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	19.8	20.8	99	104	80-120	5	20	
Naphthalene	ug/L	<0.42	20	20	21.5	24.6	107	123	66-137	14	20	
Toluene	ug/L	<0.39	20	20	21.8	23.0	109	115	67-156	5	20	
Xylene (Total)	ug/L	<1.2	60	60	63.3	67.0	106	112	71-162	6	20	
a,a,a-Trifluorotoluene (S)	%						104	103	80-120			

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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(920)469-2436

QUALIFIERS

Project: JUMP RIVER
Pace Project No.: 40130213

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JUMP RIVER
Pace Project No.: 40130213

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40130213001	MW-2	WI MOD GRO	GCV/15878		
40130213002	MW-3	WI MOD GRO	GCV/15878		
40130213003	MW-5	WI MOD GRO	GCV/15878		
40130213004	MW-6	WI MOD GRO	GCV/15878		
40130213005	MW-7	WI MOD GRO	GCV/15878		
40130213006	MW-9A	WI MOD GRO	GCV/15878		
40130213007	MW-9B	WI MOD GRO	GCV/15878		
40130213008	STORE AFTER	WI MOD GRO	GCV/15878		
40130213009	STORE B4	WI MOD GRO	GCV/15878		
40130213010	TRIP BLANK	WI MOD GRO	GCV/15881		

(Please Print Clearly)

Company Name:	Meridian Env Clts
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-832-6608
Project Number:	
Project Name:	Jump River
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

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

40130213

CHAIN OF CUSTODY

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

FILTERED? (YES/NO) — Y/N
PRESERVATION (CODE)* — Pick Letter

Analyses Requested: PVOC+Naph

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian E.C.
Mail To Address:	2711 N. Elco Rd Fall Creek WI 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, Sl = 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	PVOC+Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-2	3/31		GW	X		3-40ml VB	
002	MW-3	↓		↓	↓		↓	
003	MW-5							
004	MW-6							
005	MW-7							
006	MW-9A							
007	MW-9B							
008	Store after ①							
009	Store B4 ①							
010	trip blank ①						2-40ml VB	

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:
[signature]	4/4/16 9a	Dunham	4/4/16 9a
Dunham	4-5-16 0800	Mai Moua Pace	4516 0800

PACE Project No. 40130213
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) ① added per lab. mm 4-5-16

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: **WO# : 40130213**

40130213

Client Name: Meridian

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Dunham

Tracking #: 1152351

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 na **Type of Ice:** Wet (Blue) Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 4-5-16
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out: mm 4-5-16	☑Yes	☐No	☐N/A	2. no collect time mm4516
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3. See comments. 4-5-16 SW
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. no information on sample
-Includes (date/time/ID/Analysis) Matrix: W				labels only ID. mm4516
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: (VOA), coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	14. 008 - 1 vial mm 4/5/16
Trip Blank Present:	☑Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 357				

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

Person Contacted: Date/Time:

Comments/ Resolution: added to COC 3 vial 008 & 3 vials 009 a trip blank. mm 4516 OK per KS 4-5-16 SW

Project Manager Review: Date: 4-5-16

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1241 Bellevue Street~ Suite 9
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(920)469-2436

June 15, 2016

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

RE: Project: JUMP RIVER
Pace Project No.: 40133549

Dear Kenneth Shimko:
Enclosed are the analytical results for sample(s) received by the laboratory on June 09, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI 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
Project Manager

Enclosures

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

CERTIFICATIONS

Project: JUMP RIVER
Pace Project No.: 40133549

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JUMP RIVER
Pace Project No.: 40133549

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40133549001	MW-1	Water	06/07/16 00:00	06/09/16 07:30
40133549002	MW-2	Water	06/07/16 00:00	06/09/16 07:30
40133549003	MW-3	Water	06/07/16 00:00	06/09/16 07:30
40133549004	MW-5	Water	06/07/16 00:00	06/09/16 07:30
40133549005	MW-6	Water	06/07/16 00:00	06/09/16 07:30
40133549006	MW-7	Water	06/07/16 00:00	06/09/16 07:30
40133549007	MW-8A	Water	06/07/16 00:00	06/09/16 07:30
40133549008	MW-8B	Water	06/07/16 00:00	06/09/16 07:30
40133549009	MW-9A	Water	06/07/16 00:00	06/09/16 07:30
40133549010	MW-9B	Water	06/07/16 00:00	06/09/16 07:30
40133549011	MW-10A	Water	06/07/16 00:00	06/09/16 07:30
40133549012	MW-10B	Water	06/07/16 00:00	06/09/16 07:30
40133549013	MW-11	Water	06/07/16 00:00	06/09/16 07:30
40133549014	BAR	Water	06/07/16 00:00	06/09/16 07:30
40133549015	COM CTR	Water	06/07/16 00:00	06/09/16 07:30
40133549016	STORE AFTER	Water	06/07/16 00:00	06/09/16 07:30
40133549017	STORE B4	Water	06/07/16 00:00	06/09/16 07:30
40133549018	GASIOR	Water	06/07/16 00:00	06/09/16 07:30
40133549019	8910	Water	06/07/16 00:00	06/09/16 07:30
40133549020	14789	Water	06/07/16 00:00	06/09/16 07:30
40133549021	14788	Water	06/07/16 00:00	06/09/16 07:30
40133549022	8890	Water	06/07/16 00:00	06/09/16 07:30
40133549023	TRIP BLANK	Water	06/07/16 00:00	06/09/16 07:30

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SAMPLE ANALYTE COUNT

Project: JUMP RIVER
Pace Project No.: 40133549

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40133549001	MW-1	WI MOD GRO	JSK	9	PASI-G
40133549002	MW-2	WI MOD GRO	JSK	9	PASI-G
40133549003	MW-3	WI MOD GRO	JSK	9	PASI-G
40133549004	MW-5	WI MOD GRO	PMS	9	PASI-G
40133549005	MW-6	WI MOD GRO	PMS	9	PASI-G
40133549006	MW-7	WI MOD GRO	PMS	9	PASI-G
40133549007	MW-8A	WI MOD GRO	PMS	9	PASI-G
40133549008	MW-8B	WI MOD GRO	PMS	9	PASI-G
40133549009	MW-9A	WI MOD GRO	PMS	9	PASI-G
40133549010	MW-9B	WI MOD GRO	PMS	9	PASI-G
40133549011	MW-10A	WI MOD GRO	PMS	9	PASI-G
40133549012	MW-10B	WI MOD GRO	PMS	9	PASI-G
40133549013	MW-11	WI MOD GRO	PMS	9	PASI-G
40133549014	BAR	WI MOD GRO	PMS	9	PASI-G
40133549015	COM CTR	WI MOD GRO	PMS	9	PASI-G
40133549016	STORE AFTER	WI MOD GRO	PMS	9	PASI-G
40133549017	STORE B4	WI MOD GRO	PMS	9	PASI-G
40133549018	GASIOR	WI MOD GRO	PMS	9	PASI-G
40133549019	8910	WI MOD GRO	PMS	9	PASI-G
40133549020	14789	WI MOD GRO	PMS	9	PASI-G
40133549021	14788	WI MOD GRO	PMS	9	PASI-G
40133549022	8890	WI MOD GRO	PMS	9	PASI-G
40133549023	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

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PROJECT NARRATIVE

Project: JUMP RIVER
Pace Project No.: 40133549

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Meridian Environmental Consulting, LLC
Date: June 15, 2016

General Information:
23 samples were analyzed for WI MOD GRO. 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.

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.

QC Batch: GCV/16134

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40133549001

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

- MS (Lab ID: 1348258)
  - 1,2,4-Trimethylbenzene
- MSD (Lab ID: 1348259)
  - Toluene

Additional Comments:

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

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: MW-1 **Lab ID: 40133549001** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**175**	ug/L	10.0	4.0	10		06/10/16 17:19	71-43-2	
Ethylbenzene	**489**	ug/L	10.0	3.9	10		06/10/16 17:19	100-41-4	
Methyl-tert-butyl ether	**8.5J**	ug/L	10.0	4.8	10		06/10/16 17:19	1634-04-4	
Naphthalene	**115**	ug/L	10.0	4.2	10		06/10/16 17:19	91-20-3	
Toluene	**966**	ug/L	10.0	3.9	10		06/10/16 17:19	108-88-3	M1
1,2,4-Trimethylbenzene	**711**	ug/L	10.0	4.2	10		06/10/16 17:19	95-63-6	M1
1,3,5-Trimethylbenzene	**175**	ug/L	10.0	4.2	10		06/10/16 17:19	108-67-8	
Xylene (Total)	**1480**	ug/L	30.0	12.5	10		06/10/16 17:19	1330-20-7	MS
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		10		06/10/16 17:19	98-08-8	

Sample: MW-2 **Lab ID: 40133549002** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**19.5**	ug/L	10.0	4.0	10		06/10/16 22:01	71-43-2	
Ethylbenzene	**110**	ug/L	10.0	3.9	10		06/10/16 22:01	100-41-4	
Methyl-tert-butyl ether	**13.8**	ug/L	10.0	4.8	10		06/10/16 22:01	1634-04-4	
Naphthalene	**51.3**	ug/L	10.0	4.2	10		06/10/16 22:01	91-20-3	
Toluene	**38.0**	ug/L	10.0	3.9	10		06/10/16 22:01	108-88-3	
1,2,4-Trimethylbenzene	**422**	ug/L	10.0	4.2	10		06/10/16 22:01	95-63-6	
1,3,5-Trimethylbenzene	**164**	ug/L	10.0	4.2	10		06/10/16 22:01	108-67-8	
Xylene (Total)	**260**	ug/L	30.0	12.5	10		06/10/16 22:01	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		10		06/10/16 22:01	98-08-8	

Sample: MW-3 **Lab ID: 40133549003** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**365**	ug/L	20.0	7.9	20		06/10/16 22:27	71-43-2	
Ethylbenzene	**1500**	ug/L	20.0	7.9	20		06/10/16 22:27	100-41-4	
Methyl-tert-butyl ether	**<9.7**	ug/L	20.0	9.7	20		06/10/16 22:27	1634-04-4	
Naphthalene	**480**	ug/L	20.0	8.5	20		06/10/16 22:27	91-20-3	
Toluene	**4320**	ug/L	20.0	7.8	20		06/10/16 22:27	108-88-3	
1,2,4-Trimethylbenzene	**2900**	ug/L	20.0	8.4	20		06/10/16 22:27	95-63-6	
1,3,5-Trimethylbenzene	**885**	ug/L	20.0	8.3	20		06/10/16 22:27	108-67-8	
Xylene (Total)	**7360**	ug/L	60.0	24.9	20		06/10/16 22:27	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		20		06/10/16 22:27	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: MW-5 **Lab ID: 40133549004** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**107**	ug/L	25.0	9.9	25		06/14/16 21:50	71-43-2	
Ethylbenzene	**718**	ug/L	25.0	9.8	25		06/14/16 21:50	100-41-4	
Methyl-tert-butyl ether	**<12.1**	ug/L	25.0	12.1	25		06/14/16 21:50	1634-04-4	
Naphthalene	**383**	ug/L	25.0	10.6	25		06/14/16 21:50	91-20-3	
Toluene	**425**	ug/L	25.0	9.7	25		06/14/16 21:50	108-88-3	
1,2,4-Trimethylbenzene	**2320**	ug/L	25.0	10.4	25		06/14/16 21:50	95-63-6	
1,3,5-Trimethylbenzene	**737**	ug/L	25.0	10.4	25		06/14/16 21:50	108-67-8	
Xylene (Total)	**1750**	ug/L	75.0	31.2	25		06/14/16 21:50	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		25		06/14/16 21:50	98-08-8	

Sample: MW-6 **Lab ID: 40133549005** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**13.3J**	ug/L	20.0	7.9	20		06/14/16 21:25	71-43-2	
Ethylbenzene	**261**	ug/L	20.0	7.9	20		06/14/16 21:25	100-41-4	
Methyl-tert-butyl ether	**9.9J**	ug/L	20.0	9.7	20		06/14/16 21:25	1634-04-4	
Naphthalene	**106**	ug/L	20.0	8.5	20		06/14/16 21:25	91-20-3	
Toluene	**261**	ug/L	20.0	7.8	20		06/14/16 21:25	108-88-3	
1,2,4-Trimethylbenzene	**1080**	ug/L	20.0	8.4	20		06/14/16 21:25	95-63-6	
1,3,5-Trimethylbenzene	**402**	ug/L	20.0	8.3	20		06/14/16 21:25	108-67-8	
Xylene (Total)	**957**	ug/L	60.0	24.9	20		06/14/16 21:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		20		06/14/16 21:25	98-08-8	

Sample: MW-7 **Lab ID: 40133549006** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**14.3**	ug/L	2.0	0.79	2		06/14/16 22:41	71-43-2	
Ethylbenzene	**116**	ug/L	2.0	0.79	2		06/14/16 22:41	100-41-4	
Methyl-tert-butyl ether	**8.1**	ug/L	2.0	0.97	2		06/14/16 22:41	1634-04-4	
Naphthalene	**52.7**	ug/L	2.0	0.85	2		06/14/16 22:41	91-20-3	
Toluene	**17.5**	ug/L	2.0	0.78	2		06/14/16 22:41	108-88-3	
1,2,4-Trimethylbenzene	**121**	ug/L	2.0	0.84	2		06/14/16 22:41	95-63-6	
1,3,5-Trimethylbenzene	**33.7**	ug/L	2.0	0.83	2		06/14/16 22:41	108-67-8	
Xylene (Total)	**168**	ug/L	6.0	2.5	2		06/14/16 22:41	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		2		06/14/16 22:41	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: MW-8A **Lab ID: 40133549007** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 16:16	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 16:16	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 16:16	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 16:16	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 16:16	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 16:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 16:16	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 16:16	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		1		06/14/16 16:16	98-08-8	

Sample: MW-8B **Lab ID: 40133549008** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 16:42	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 16:42	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 16:42	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 16:42	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 16:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 16:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 16:42	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 16:42	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/14/16 16:42	98-08-8	

Sample: MW-9A **Lab ID: 40133549009** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**21.0**	ug/L	2.5	0.99	2.5		06/14/16 22:16	71-43-2	
Ethylbenzene	**131**	ug/L	2.5	0.98	2.5		06/14/16 22:16	100-41-4	
Methyl-tert-butyl ether	**2.2J**	ug/L	2.5	1.2	2.5		06/14/16 22:16	1634-04-4	
Naphthalene	**54.4**	ug/L	2.5	1.1	2.5		06/14/16 22:16	91-20-3	
Toluene	**49.2**	ug/L	2.5	0.97	2.5		06/14/16 22:16	108-88-3	
1,2,4-Trimethylbenzene	**159**	ug/L	2.5	1.0	2.5		06/14/16 22:16	95-63-6	
1,3,5-Trimethylbenzene	**48.8**	ug/L	2.5	1.0	2.5		06/14/16 22:16	108-67-8	
Xylene (Total)	**123**	ug/L	7.5	3.1	2.5		06/14/16 22:16	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		2.5		06/14/16 22:16	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: MW-9B **Lab ID: 40133549010** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 17:08	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 17:08	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 17:08	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:08	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 17:08	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:08	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 17:08	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/14/16 17:08	98-08-8	

Sample: MW-10A **Lab ID: 40133549011** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 17:34	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 17:34	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 17:34	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:34	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 17:34	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:34	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:34	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 17:34	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/14/16 17:34	98-08-8	

Sample: MW-10B **Lab ID: 40133549012** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 17:59	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 17:59	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 17:59	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:59	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 17:59	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 17:59	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 17:59	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		06/14/16 17:59	98-08-8	

REPORT OF LABORATORY ANALYSIS

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(920)469-2436

ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: MW-11 Lab ID: **40133549013** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 18:25	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 18:25	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 18:25	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 18:25	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 18:25	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 18:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 18:25	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 18:25	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/14/16 18:25	98-08-8	

Sample: BAR Lab ID: **40133549014** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 18:50	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 18:50	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 18:50	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 18:50	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 18:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 18:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 18:50	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 18:50	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		06/14/16 18:50	98-08-8	

Sample: COM CTR Lab ID: **40133549015** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 19:16	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 19:16	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 19:16	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 19:16	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 19:16	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 19:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 19:16	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 19:16	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		06/14/16 19:16	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: STORE AFTER **Lab ID: 40133549016** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 19:42	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 19:42	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 19:42	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 19:42	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 19:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 19:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 19:42	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 19:42	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/14/16 19:42	98-08-8	

Sample: STORE B4 **Lab ID: 40133549017** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**0.49J**	ug/L	1.0	0.40	1		06/15/16 00:24	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 00:24	100-41-4	
Methyl-tert-butyl ether	**2.0**	ug/L	1.0	0.48	1		06/15/16 00:24	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 00:24	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 00:24	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 00:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 00:24	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/15/16 00:24	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		06/15/16 00:24	98-08-8	

Sample: GASIOR **Lab ID: 40133549018** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/15/16 00:50	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 00:50	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/15/16 00:50	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 00:50	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 00:50	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 00:50	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 00:50	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/15/16 00:50	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/15/16 00:50	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: 8910 **Lab ID: 40133549019** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/15/16 01:15	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 01:15	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/15/16 01:15	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 01:15	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 01:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 01:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 01:15	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/15/16 01:15	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/15/16 01:15	98-08-8	

Sample: 14789 **Lab ID: 40133549020** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**5.9**	ug/L	1.0	0.40	1		06/15/16 01:41	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 01:41	100-41-4	
Methyl-tert-butyl ether	**1.1**	ug/L	1.0	0.48	1		06/15/16 01:41	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 01:41	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 01:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 01:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 01:41	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/15/16 01:41	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/15/16 01:41	98-08-8	

Sample: 14788 **Lab ID: 40133549021** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/15/16 02:07	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 02:07	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/15/16 02:07	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 02:07	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 02:07	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 02:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 02:07	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/15/16 02:07	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		06/15/16 02:07	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JUMP RIVER
Pace Project No.: 40133549

Sample: 8890 **Lab ID: 40133549022** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/15/16 02:32	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 02:32	100-41-4	
Methyl-tert-butyl ether	**1.0**	ug/L	1.0	0.48	1		06/15/16 02:32	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 02:32	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/15/16 02:32	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 02:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/15/16 02:32	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/15/16 02:32	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		06/15/16 02:32	98-08-8	

Sample: TRIP BLANK **Lab ID: 40133549023** Collected: 06/07/16 00:00 Received: 06/09/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/14/16 20:08	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 20:08	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/14/16 20:08	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 20:08	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/14/16 20:08	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 20:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/14/16 20:08	108-67-8	
Xylene (Total)	**<1.2**	ug/L	3.0	1.2	1		06/14/16 20:08	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		06/14/16 20:08	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: JUMP RIVER
Pace Project No.: 40133549

QC Batch: GCV/16134 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40133549001, 40133549002, 40133549003

METHOD BLANK: 1348081 Matrix: Water
Associated Lab Samples: 40133549001, 40133549002, 40133549003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/10/16 09:11	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/10/16 09:11	
Benzene	ug/L	<0.40	1.0	06/10/16 09:11	
Ethylbenzene	ug/L	<0.39	1.0	06/10/16 09:11	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/10/16 09:11	
Naphthalene	ug/L	<0.42	1.0	06/10/16 09:11	
Toluene	ug/L	<0.39	1.0	06/10/16 09:11	
Xylene (Total)	ug/L	<1.2	3.0	06/10/16 09:11	
a,a,a-Trifluorotoluene (S)	%	102	80-120	06/10/16 09:11	

LABORATORY CONTROL SAMPLE & LCSD: 1348082 1348083

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	22.7	23.1	114	115	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	22.8	23.0	114	115	80-120	1	20	
Benzene	ug/L	20	22.0	22.1	110	110	80-120	0	20	
Ethylbenzene	ug/L	20	22.1	22.1	110	111	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	21.8	22.5	109	112	80-120	3	20	
Naphthalene	ug/L	20	20.7	22.5	104	113	80-120	8	20	
Toluene	ug/L	20	21.9	22.0	110	110	80-120	0	20	
Xylene (Total)	ug/L	60	66.9	66.5	112	111	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1348258 1348259

Parameter	Units	40133549001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	711	200	200	1090	1060	192	176	48-177	3	20	M1
1,3,5-Trimethylbenzene	ug/L	175	200	200	464	456	145	140	73-145	2	20	
Benzene	ug/L	175	200	200	399	401	112	113	74-139	1	20	
Ethylbenzene	ug/L	489	200	200	747	753	129	132	74-140	1	20	
Methyl-tert-butyl ether	ug/L	8.5J	200	200	229	227	110	109	80-120	1	20	
Naphthalene	ug/L	115	200	200	350	336	117	110	73-133	4	20	
Toluene	ug/L	966	200	200	1220	1260	125	146	80-128	3	20	M1
Xylene (Total)	ug/L	1480	600	600	2390	2350	151	145	69-143	1	20	MS
a,a,a-Trifluorotoluene (S)	%						99	97	80-120			

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: JUMP RIVER
Pace Project No.: 40133549

QC Batch: GCV/16135 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40133549004, 40133549005, 40133549006, 40133549007, 40133549008, 40133549009, 40133549010, 40133549011, 40133549012, 40133549013, 40133549014, 40133549015, 40133549016, 40133549017, 40133549018, 40133549019, 40133549020, 40133549021, 40133549022, 40133549023

METHOD BLANK: 1348084 Matrix: Water
Associated Lab Samples: 40133549004, 40133549005, 40133549006, 40133549007, 40133549008, 40133549009, 40133549010, 40133549011, 40133549012, 40133549013, 40133549014, 40133549015, 40133549016, 40133549017, 40133549018, 40133549019, 40133549020, 40133549021, 40133549022, 40133549023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/14/16 14:34	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/14/16 14:34	
Benzene	ug/L	<0.40	1.0	06/14/16 14:34	
Ethylbenzene	ug/L	<0.39	1.0	06/14/16 14:34	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/14/16 14:34	
Naphthalene	ug/L	<0.42	1.0	06/14/16 14:34	
Toluene	ug/L	<0.39	1.0	06/14/16 14:34	
Xylene (Total)	ug/L	<1.2	3.0	06/14/16 14:34	
a,a,a-Trifluorotoluene (S)	%	103	80-120	06/14/16 14:34	

LABORATORY CONTROL SAMPLE & LCSD: 1348085 1348086

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.9	20.8	105	104	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.4	20.4	102	102	80-120	0	20	
Benzene	ug/L	20	20.9	20.8	104	104	80-120	0	20	
Ethylbenzene	ug/L	20	20.2	20.1	101	100	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.9	20.6	104	103	80-120	1	20	
Naphthalene	ug/L	20	20.7	20.4	104	102	80-120	2	20	
Toluene	ug/L	20	20.5	20.5	103	102	80-120	0	20	
Xylene (Total)	ug/L	60	62.0	61.5	103	102	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1349685 1349686

Parameter	Units	40133549004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	2320	500	500	3070	3100	148	155	48-177	1	20	
1,3,5-Trimethylbenzene	ug/L	737	500	500	1370	1390	126	130	73-145	1	20	
Benzene	ug/L	107	500	500	636	637	106	106	74-139	0	20	
Ethylbenzene	ug/L	718	500	500	1280	1300	113	116	74-140	1	20	
Methyl-tert-butyl ether	ug/L	<12.1	500	500	531	525	106	105	80-120	1	20	
Naphthalene	ug/L	383	500	500	967	953	117	114	73-133	1	20	
Toluene	ug/L	425	500	500	972	982	109	111	80-128	1	20	
Xylene (Total)	ug/L	1750	1500	1500	3440	3470	113	115	69-143	1	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

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

QUALITY CONTROL DATA

Project: JUMP RIVER
Pace Project No.: 40133549

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1349685 1349686

Parameter	Units	40133549004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						105	102	80-120			

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, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: JUMP RIVER
Pace Project No.: 40133549

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: JUMP RIVER
Pace Project No.: 40133549

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40133549001	MW-1	WI MOD GRO	GCV/16134		
40133549002	MW-2	WI MOD GRO	GCV/16134		
40133549003	MW-3	WI MOD GRO	GCV/16134		
40133549004	MW-5	WI MOD GRO	GCV/16135		
40133549005	MW-6	WI MOD GRO	GCV/16135		
40133549006	MW-7	WI MOD GRO	GCV/16135		
40133549007	MW-8A	WI MOD GRO	GCV/16135		
40133549008	MW-8B	WI MOD GRO	GCV/16135		
40133549009	MW-9A	WI MOD GRO	GCV/16135		
40133549010	MW-9B	WI MOD GRO	GCV/16135		
40133549011	MW-10A	WI MOD GRO	GCV/16135		
40133549012	MW-10B	WI MOD GRO	GCV/16135		
40133549013	MW-11	WI MOD GRO	GCV/16135		
40133549014	BAR	WI MOD GRO	GCV/16135		
40133549015	COM CTR	WI MOD GRO	GCV/16135		
40133549016	STORE AFTER	WI MOD GRO	GCV/16135		
40133549017	STORE B4	WI MOD GRO	GCV/16135		
40133549018	GASIOR	WI MOD GRO	GCV/16135		
40133549019	8910	WI MOD GRO	GCV/16135		
40133549020	14789	WI MOD GRO	GCV/16135		
40133549021	14788	WI MOD GRO	GCV/16135		
40133549022	8890	WI MOD GRO	GCV/16135		
40133549023	TRIP BLANK	WI MOD GRO	GCV/16135		

40133549

(Please Print Clearly)

Company Name:	Meridian Env Ct
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-832-6608
Project Number:	
Project Name:	Jump River
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

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

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian Env Ct
Mail To Address:	2711 N. Elco Rd Fall Creek WI 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, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) — Y/N
PRESERVATION (CODE)* — Pick Letter
Analyses Requested: PVOC + Naph

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC + Naph	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	6/7		GW	X		3-40mL VB	
002	-2	↓		↓	↓		↓	
003	-3							
004	-5							
005	-6							
006	-7							
007	-8A							
008	-8B							
009	-9A							
010	-9B							
011	-10A							
012	-10B							
013	-11	↓		↓	↓		↓	

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:
Dunham	6/9/16 0730	Katie Schramm Pace	6/9/16 0730

See Pg Two →

PACE Project No. 40133549
Receipt Temp = RO1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

(Please Print Clearly)

Company Name:	Meridian Env Co
Branch/Location:	
Project Contact:	Ken Shimko
Phone:	715-832-6608
Project Number:	
Project Name:	Jump River
Project State:	WI
Sampled By (Print):	Ken Shimko
Sampled By (Sign):	
PO #:	Regulatory Program:

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Page 2 of 2

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

Quote #:	
Mail To Contact:	Ken Shimko
Mail To Company:	Meridian Env Co
Mail To Address:	2711 N. Flambeau Ave Fall Creek, WI 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
Sl = Sludge	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 #
	Bar	6/7		GW			X		3-40mlVB	
	Com Ctr									
	Store After									
	Store B4									
	Gasior									
	8910									
	14789									
	14788									
	8890								2-40mlVB	
①	Trip Blank									

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:
	6/8/16 9am	Dunham	6/8/16 9am
Dunham	6/9/16 0730	Kate Schram	Pace 6/9/16 0730

PACE Project No. 40133549

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) ① added to COC by lab because included in shipment KS 6/9/16

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: WO# : 40133549

40133549

Client Name: Meridian Environmental

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☐ Other: Dunham

Tracking #: 1178059

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

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 6/9/16
Initials: KB

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. no collect times KB 6/9/16
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. first pg. only KB 6/9/16
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☐Yes ☑No ☐N/A	12. no collect dates; no MW before any ID written KB 6/9/16
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, OTHER:	☑Yes ☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	14.
Trip Blank Present:	☑Yes ☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 357		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 6-9-16