SITE INVESTIGATION REPORT

For

Da Swamp Bar
W2490 Hofa Park Drive
Seymour, Wisconsin 54165

WDNR BRRTS No. 03-59-547440

Prepared For

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Project No. P101399.40

June 28, 2019

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EXECUTIVE SUMMARY

This Site Investigation Report (SIR) summarizes the site activities associated with defining the degree and extent of identified petroleum contamination. The environmental activities performed were administered to comply with Wisconsin Administrative Code (WAC), NR 700 for the cleanup of petroleum contamination and consisted of Geoprobe soil borings, soil sample collection, monitoring well installation, groundwater sampling, hydraulic conductivity testing and sub-slab vapor screening.

Da Swamp Bar, is located in the town of Maple Grove, Shawano County, Wisconsin. The site is currently operated as a Da Swamp Bar.

Laboratory analytical results associated with a site assessment soil sampling completed on May 8, 2006, by STS Consultants LTD (STS) confirmed the presence of petroleum contamination in site soils. The petroleum release was reported to the Wisconsin Department of Natural Resources (WDNR) on June 6, 2006. A Responsible Party (RP) letter was issued to Ms. Lucille Van Lannen, dated June 6, 2006, outlining the obligation to restore the environment at the property. On July 8, 2008, the WDNR issued a new RP letter to Da Swamp, LLC.

Endeavor was retained under an Agent Contract with the Responsible Party (Da Swamp Bar, LLC) and WDNR on October 7, 2011, to complete a site investigation and remedial activities associated with the confirmed petroleum soil and groundwater contamination. Endeavor prepared a Site Investigation Work Plan (SIWP) dated October 31, 2011, which was submitted to the WDNR.

As part of the site investigation, a total of eighteen soil borings (GP-1 thru GP-8, and MW-1 thru MW-5/5R, MW-10, MW-11, MW-20, MW-21 and PZ-1) were installed through the course of investigation activities. A total of twenty-eight soil samples were collected and submitted for laboratory analysis of one or more of the following: volatile organic compounds (VOCs), petroleum volatile organic compounds (PVOCs), naphthalene, polycyclic aromatic hydrocarbons (PAHs) and total lead. The soil sample laboratory analytical results have identified benzene, ethylbenzene, toluene, total xylenes, 1,2,4-trimethylbenzene (TMB), 1,3,5-TMB and naphthalene concentrations above calculated residual contaminant levels (RCLs) (groundwater protection and/or direct contact) in soil samples GP-3, GP-4, GP-5, GP-6, and GP-7. The extent of petroleum soil contamination has been adequately defined by the soil boring configuration. Soil sample laboratory analytical results illustrate that pre-remedial residual petroleum soil contamination exceeding calculated WAC, NR720 RCLs (groundwater protection) were present on the subject property. The soil contaminant plume extends east from the former underground storage tanks (USTs) to the former dispenser location. Site soils consisted of a loamy sand over dolomite bedrock which was encountered at approximately 13.5 feet below ground surface (bgs).

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Ten soil borings were installed and constructed as WAC, NR 141 groundwater monitoring points (MW-1 thru MW-5/5R, MW-10, MW-11, MW-20 and MW-21) and one piezometer (PZ-1). The groundwater table has been measured during site well sampling activities and indicates the site groundwater depth ranged from 2.99 feet bgs (monitoring well MW-20) to 9.28 feet bgs (monitoring well MW-11). The groundwater monitoring well network was surveyed and the groundwater flow direction extends to the south from the subject property. The subject site also contains potable well near the southwest corner of the bar building and a sump is located along the south interior basement wall of the bar building. Hydraulic conductivity testing was performed on source monitoring well MW-5 and downgradient monitoring well MW-10. Hydraulic gradient was calculated at 0.0125 ft/ft during the March 12, 2018, sampling event. Endeavor performed four groundwater sampling events during which groundwater samples were collected from a combination of monitoring wells and the potable and submitted for laboratory analysis of VOCs, PVOCs plus naphthalene and PAHs. The groundwater sample laboratory analytical results reported contaminant concentrations exceeding WAC, NR 140 enforcement standards (ESs) or preventive action limits (PALs) in groundwater monitoring wells MW-2, MW-5/5R and MW-10. Contaminants reported at concentrations exceeding their respective WAC, NR 140 ESs or PALs included: benzene, ethylbenzene, toluene, total xylenes, total TMBs, MTBE and naphthalene. All remaining analyzed contaminant concentrations were reported to be below their respective WAC, NR 140 ESs or PALs. The extent of groundwater contamination has been adequately defined by the groundwater monitoring well network. Groundwater monitoring has revealed that residual groundwater contamination exceeding WAC, NR 140 ESs remains on-site. The groundwater contaminant plume also extends south from the former UST basin and dispenser locations across the Hofa Park Drive right-of-way.

Endeavor performed three indoor air sampling events within the occupied bar building. Samples collected via Summa cannister were submitted for the TO-15 full list VOC analysis. Laboratory analytical results reported no detections of analyzed constituents above the Noncancer Hazard Index.

Endeavor completed a source excavation on May 16-17, 2016, at the subject property. A total of 537.83 tons of petroleum impacted soils were removed and transported off-site for disposal. Excavation activities and confirmation soil sampling results were detailed in the Excavation Summary dated December 31, 2018, prepared by Endeavor and submitted to the WDNR.

Site investigation activities outlined above have adequately defined the site soil and groundwater contaminant plumes associated with the site petroleum release

1.0 INTRODUCTION AND BACKGROUND

1.1 Responsible Party Information

Da Swamp Bar, LLC
Contact: Linda Van Gheem
W2490 Hofa Park Drive
Seymour, Wisconsin 54165
Phone: (920) 373-6733

1.2 Consultant Information

Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, Wisconsin 54313
Contact: Joseph M. Ramcheck, P.H.
Office: (920) 437-2997
Cell: (920) 737-5313
Fax: (920) 437-3066
e-mail: jramcheck@endeavorenv.com

1.3 Site Location and Description

The Parcel Identification Number (PIN) is 030-18330-0010. The address is W2490 Hofa Park Drive, Seymour, WI. The subject property is subject property is located in the SW1/4 of the SW1/4, Section 18, Township 25 North, Range 18 East, Township of Maple Grove, Shawano County, WI. Figure 1 illustrates the site location.

The Wisconsin Transverse Mercator 91 (WTM91) coordinates for the corner boundaries of the subject property were determined from the WDNR RR sites map. The parcel boundaries were extrapolated from an on-line parcel map, from the Sheboygan County GIS website and transferred to the WDNR RR sites map using features from the aerial photo. The WTM91 coordinates obtained from the WDNR RR sites map are commencing at the northwest property corner and proceed clockwise are:

649,736 (x), 463,324 (y)
649,920 (x), 463,324 (y)
649,919 (x), 463,279 (y)
649,735 (x), 463,279 (y)

The subject property is currently operated as Da Swamp Bar. The subject property formerly operated as a retail fuel distributer which used a petroleum storage and distribution system consisting of two 550-gallon unleaded gasoline USTs and one 550-gallon kerosene UST. The

Figure 1 - Site Location

Legend

- Open Site
- Closed Site
- Continuing Obligations Apply
- Facility-wide Site

Notes

0.1 0 0.03 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 1,980

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completemenss, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/org/legal/

Note: Not all sites are mapped.

subject property is serviced by public utilities including electric and phone. Figure 2 and 2a illustrates the Site Plan View Overview and Detail, respectively.

The subject property is serviced by the following public utilities: electric and telephone. The surrounding property use is agricultural. Wisconsin Geologic and Natural History Survey (WGNHS) well records were reviewed in preparation of this SIWP. The WGNHS records identified four wells in the quarter section surrounding the subject property. Based upon the reviewed information, the identified potable wells range from 142 to 337 feet below the ground surface. All of these wells were outfitted with 6-inch steel casing.

The site is bordered to the north, east and south, across Hofa Park Drive, by agricultural land. Adjacent land use west across the right-of-way for County Hwy F is also agricultural.

1.4 Previous Environmental Activities

November 1, 1989, three USTs were closed and removed from the site.

On May 8, 2006, STS Consultants LTD coordinated the installation of a test pit as part of site assessment soil sampling activates. A total of two soil samples were submitted to Pace Analytical Services, Inc. of Green Bay, WI, for laboratory analysis of PVOCs, PAHs and total lead.

Soil sample laboratory analytical results reported detections of analyzed constituents in soil sample TP-1 S-3 4'-5'. Soil sample laboratory analytical results reported detections of 1,2,4-TMB (19,000 ppb), 1,3,5-TMB (3,600 ppb), ethylbenzene (1,800 ppb), total xylenes (2,310 ppb) 1-methylnaphthalene (2,000 ppb), 2-methylnaphthalene (4,200 ppb), naphthalene (1,500 ppb) and lead (19 ppm). Lead was detected in soil sample TP-1 S-3 5'-6' at a concentration of 3.7 ppm. All other analyzed constituents were below their respective laboratory reporting limits. Soil sample laboratory analytical results are summarized in Table A.1.

On June 6, 2006, STS Consultants LTD notified the WDNR of the confirmed petroleum soil contamination.

On June 6, 2006, the WDNR issued an RP letter to Mrs. Lucille Van Lannen, outlining her responsibility to restore the environment.

On July 8, 2008, the WDNR issued a new RP letter to Da Swamp, LLC, outlining their responsibility to restore the environment.

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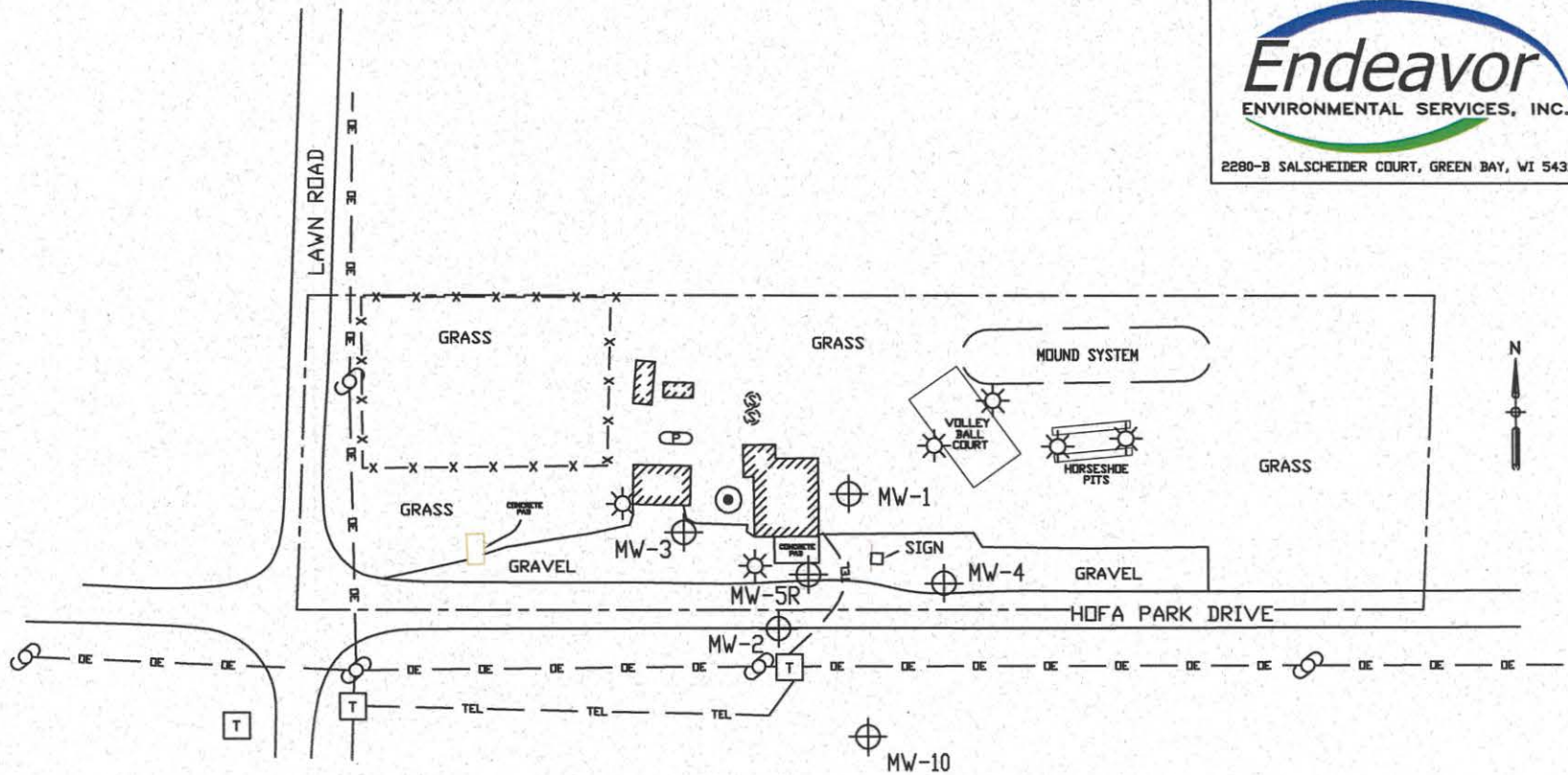

LEGEND

- APPROXIMATEFR PRPERTY LINE
- PROPANE TANK
- TELEPHONE PEDISTAL
- POWER POLE
- LIGHT POLE
- SEPTIC COVER
- MONITORING WELL
- PEISOMETER
- POTABLE WELL
- FENCE
- OVERHEAD ELECTRIC
- UNDERGROUND TELEPHONE

MW-21

PZ1

MW-20

FIGURE 2
SITE PLAN VIEW - OVERVIEW
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 100'	1 OF 1	P101399.40.2.1	6/28/19	A	SVD	528		

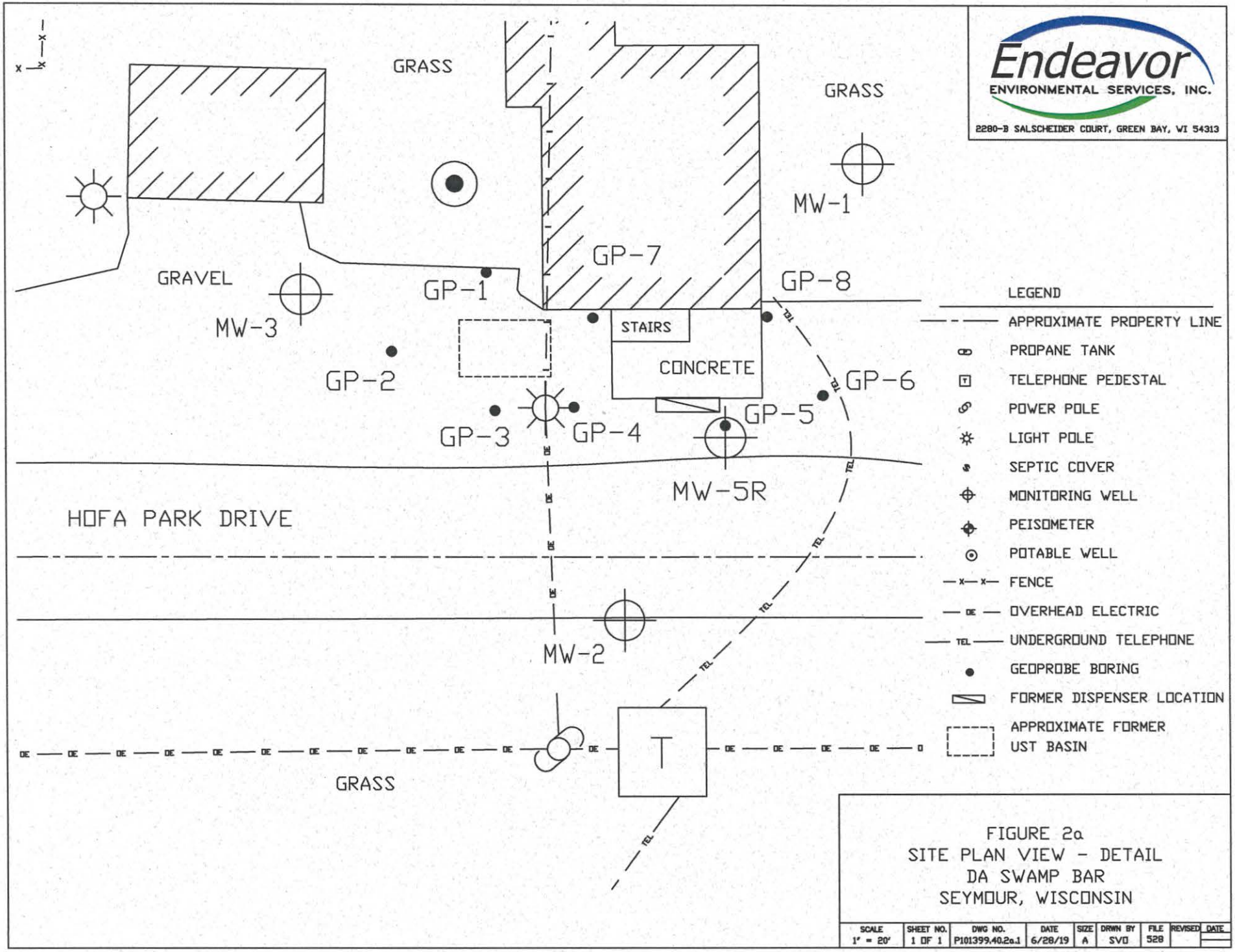

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FIGURE 2a
SITE PLAN VIEW - DETAIL
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 20'	1 OF 1	P101399.40.2a.1	6/28/19	A	SVO	528		

Table A.1
Soil Analytical Results
Da Swamp Bar
Pulaski, Wisconsin

Sample ID	Sample Date	Sample Depth (feet bgs)	Benzene	Ethyl-benzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene	cis - 1, 2 Dichloroethene	sec-Butylbenzene	n-Butylbenzene	Isopropylbenzene	n-Propylbenzene	p-Isopropyl toluene	Lead
TP-1 S-3 4'-5'	5/8/2006	4.0 - 5.0	<120	**1,800**	<120	2,310	**19,000**	**3,600**	<120	**1,500**	NA	NA	NA	NA	NA	NA	19
TP-1 S-3 5'-6'	5/8/2006	5.0 - 6.0	<25	<25	<25	<25	<25	<25	<25	<4.5	NA	NA	NA	NA	NA	NA	4
GP-1, S-2	12/12/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA
GP-1, S-3	12/12/2013	4.0 - 6.0	<9.2	<10	<20	<99	<26	<26	<30	<114	<24	<41	<26	<25	<24	<31	0.35 J
GP-1, S-4	12/12/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA
GP-2, S-2	12/12/2013	2.0 - 4.0	<9.2	<10	<20	<99	<26	<26	<30	<114	<24	<41	<26	<25	<24	<31	0.93 J
GP-2, S-4	12/12/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA
GP-3, S-2	12/12/2013	2.0 - 4.0	**620**	**3,020**	175	**28,600**	**26,700**	**9,400**	<30	**830**	<24	340	1,780	450	1,600	173	NA
GP-3, S-3	12/12/2013	4.0 - 6.0	**69**	150	<25	1,270	**1,400**	**540**	<25	259	NA	NA	NA	NA	NA	NA	NA
GP-3, S-4	12/12/2013	6.0 - 8.0	**62**	171	<20	1,370	**2,180**	**730**	<30	470	<24	<41	216	29.2 J	121	<31	NA
GP-4, S-2	12/12/2013	2.0 - 4.0	**400**	***1,580***	**1,740**	**9,120**	**4,600**	**1,680**	<25	650	NA	NA	NA	NA	NA	NA	NA
GP-4, S-3	12/12/2013	4.0 - 6.0	**9,200**	**180,000**	**163,000**	**1,003,000**	**810,000**	**263,000**	<3,000	**148,000**	<2,400	22,100	134,000	25,000	124,000	10,100	NA
GP-4, S-4	12/12/2013	6.0 - 8.0	**4,400**	**32,000**	**34,000**	**162,000**	**83,000**	**32,000**	<250	**16,500**	NA	NA	NA	NA	NA	NA	NA
GP-5, S-1	12/12/2013	0.0 - 2.0	***50,000***	***95,000***	***283,000***	***425,000***	**191,000**	**76,000**	<250	***32,000***	NA	NA	NA	NA	NA	NA	NA
GP-5, S-2	12/12/2013	2.0 - 4.0	***88,000***	***265,000***	***890,000***	***1,300,000***	***590,000***	**179,000**	<3,000	***119,000***	<2,400	11,200 J	68,000	21,300	92,000	5700 J	NA
GP-5, S-4	12/12/2013	6.0 - 8.0	**18,400**	**24,600**	**93,000**	**112,600**	**51,000**	**19,500**	<250	NA	NA	NA	NA	NA	NA	NA	0.79 J
GP-6, S-2	12/12/2013	2.0 - 4.0	<25	<25	45	<75	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA	2.5
GP-6, S-4	12/12/2013	6.0 - 8.0	**17.6 J**	19.4 J	72	<99	157	61 J	<30	570	<24	<41	66 J	<25	35 J	<31	NA
GP-6, S-5	12/12/2013	8.0 - 10.0	**152**	450	178	1,165	**1,680**	**690**	<25	500	NA	NA	NA	NA	NA	NA	NA
GP-7, S-2	12/12/2013	2.0 - 4.0	<9.2	12.7 J	<20	<99	57 J	<26	<30	<114	<24	<41	<26	<25	<24	<31	NA
GP-7, S-4	12/12/2013	6.0 - 8.0	**1,100**	**2,990**	**2,480**	**14,600**	**8,400**	**3,500**	<25	NA	NA	NA	NA	NA	NA	NA	<0.3
GP-8, S-2	12/12/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	57 J	NA	NA	NA	NA	NA	NA	NA
GP-8, S-4	12/12/2013	6.0 - 8.0	<9.2	<10	<20	<99	<26	<26	<30	<114	<24	<41	<26	<25	<24	<31	<0.3
MW-1, S-4	12/20/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA	NA
MW-2, S-2	12/20/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA	NA
MW-2, S-4	12/20/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA	NA
TB-4, S-2	12/20/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA
TB-4, S-4	12/20/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA	NA
S-1	5/16/2016	6.0	**26.7 J**	137	121	405	710	282	<25	186	NA	NA	NA	NA	NA	NA	NA
S-2	5/16/2016	6.5	**104**	390	880	1,950	**1,120**	**350**	<25	**700**	NA	NA	NA	NA	NA	NA	NA
S-3	5/16/2016	6.5	**1,950**	**4,800**	**13,200**	**22,500**	**13,000**	**4,800**	<250	**8,100**	NA	NA	NA	NA	NA	NA	NA
S-6	5/16/2016	7.5	**5,600**	**24,800**	**34,000**	**124,000**	**75,000**	**28,100**	<1,250	**24,400**	NA	NA	NA	NA	NA	NA	NA
S-8	5/16/2016	6.0	**890**	**4,200**	**4,500**	**19,300**	**16,600**	**5,900**	<250	**7,600**	NA	NA	NA	NA	NA	NA	NA
S-9	5/17/2016	6.0	**38 J**	74	73	212 J	**1,860**	**640**	<25	650	NA	NA	NA	NA	NA	NA	NA
S-10	5/17/2016	6.0	<16	<27	<31	<99	<78	<89	<25	<87	NA	NA	NA	NA	NA	NA	NA
S-11	5/17/2016	6.0	<25	72	49	567	830	285	<25	289	NA	NA	NA	NA	NA	NA	NA
S-12	5/17/2016	7.5	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA
WDNR Soil to Groundwater RCL			5.1	1,570	1,107	3,960	1,378.7		27	658	41.2	NS	NS	NS	NS	NS	27
Calculated RCLs (direct contact/non-industrial site)			1,600	8,020	818,000	260,000	219,000	182,000	63,800	5,520	156,000	145,000	108,000	NS	NS	162,000	400
Calculated RCLs (direct contact/industrial)			7,070	35,400	818,000	260,000	219,000	182,000	282,000	24,100	2,340,000	145,000	108,000	NS	NS	NS	800
Cancer RCL Non-industrial			1,600	8,020	NS	NS	NS	NS	63,800	5,520	NS	NS	NS	NS	NS	NS	NS
Non Cancer RCL Non-industrial			106,000	4,080,000	5,240,000	818,000	373,000	339,000	22,100,000	178,000	156,000	7,820,000	3,910,000	NS	NS	NS	400
Cancer RCL Industrial			7,070	35,400	NS	NS	NS	NS	282,000	24,100	NS	NS	NS	NS	NS	NS	NS
Non Cancer RCL Industrial			587,000	27,400,000	55,300,000	3,570,000	2,390,000	2,060,000	93,000,000	830,000	2,340,000	117,000,000	58,400,000	NS	NS	NS	800

Notes:
(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
All concentrations reported are in parts per billion (ug/kg) except lead reported in parts per million (mg/kg)
Calculated RCLs are from the DNR on-line RCL spreadsheet updated December 2018
Bold value represents an exceedance of Calculated RCLs (groundwater protection)
Italics value represents an exceedance of Calculated RCLs (direct contact/ non-industrial site)

bgs: below ground surface
ppm eq: parts per million equivalent
MTBE: methyl tert-butyl ether
TMB: trimethylbenzene
NA: not analyzed/not applicable
NS: no standard

Table A.1 (continued)
Soil Sample Laboratory Analytical Results
Da Swamp Bar
Pulaski, Wisconsin

Polycyclic Aromatic Hydrocarbons

Sample ID	Sample Date	Sample Depth (feet bgs)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
TP-1 S-3 4'-5'	5/8/2006	4.0 - 5.0	<33	<32	<40	<60	<32	<32	<40	<34	<49	<31	<32	<38	<28	2,000	4,200	**1,500**	<33	<28
TP-1 S-3 5'-6'	5/8/2006	5.0 - 6.0	<3.4	<3.3	<4.0	<6.0	<3.2	<3.2	<4.0	<3.5	<4.9	<3.1	<3.3	<3.9	<2.8	<3.4	<3.5	<4.5	<3.3	<2.8
GP-1, S-3	12/12/2013	4.0 - 6.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-2, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-2, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-3, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	71 J	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	89	158	550	<22.4	<23.1
GP-3, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	36 J	65 J	157	<22.4	<23.1
GP-4, S-3	12/12/2013	4.0 - 6.0	<218	<192	<195	<229	<174	<196	<227	<216	<181	<223	<211	<222	<239	*35,000*	68,000	*68,000*	330 J	<231
GP-5, S-2	12/12/2013	2.0 - 4.0	<436	<384	<390	<458	<348	<392	<454	<432	<362	<446	<422	<444	<478	*19,600*	34,000	*30,700*	<448	<462
GP-5, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	3,800	7,200	*6,700*	43 J	<23.1
GP-6, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	25.5 J	<22.4	<23.1
GP-7, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-7, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	860	1,310	**1,420**	<22.4	<23.1
GP-8, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
MW-1, S-4	12/20/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
MW-2, S-2	12/20/2013	2.0 - 4.0	<21.8	<19.2	<19.5	26.7 J	21 J	23.6 J	105	<21.6	<18.1	<22.3	30.7 J	<22.2	<23.9	<20.7	<20.6	<22.1	22.5 J	31.2 J
MW-2, S-4	12/20/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
TB-4, S-4	12/20/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
Calculated RCLs (groundwater protection)			NS	NS	196,949	NS	470	478	NS	NS	144	NS	88,878	14,830	NS	NS	NS	658.2	NS	54,546
Calculated RCLs (direct contact/non-industrial site)			3,590,000	NS	17,900,000	1,140	115	1,150	NS	11,500	115,000	115	2,390,000	2,390,000	1,150	17,600	239,000	5,520	NS	1,790,000
Cancer RCL			NS	NS	NS	1,140	115	1,150	NS	11,500	115,000	115	NS	NS	1,150	17,600	NS	5,520	NS	NS
Non Cancer RCL			3,590,000	NS	17,900,000	NS	17,800	NS	NS	NS	NS	NS	2,390,000	2,390,000	NS	4,180,000	239,000	178,000	NS	1,790,000

Notes:

(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

All concentrations reported are in parts per billion (ug/kg)

Calculated RCLs are from the DNR on-line RCL spreadsheet updated December 2017

Bold values represent an exceedance of Calculated RCLs (groundwater protection)

Italic values represent an exceedance of Calculated RCLs (direct contact/ non-industrial)

bgs: below ground surface

RCL: residual contaminant level

NS: no standard

On October 7, 2011, Endeavor executed an Agent Contract with Da Swamp, LLC to provide professional consulting services for site investigation and remedial activities associated with the confirmed petroleum release.

2.0 GEOLOGY AND RECEPTORS

2.1 Site Geology and Hydrogeology

According to the United States Department of Agriculture, Natural Resource Conservation Service's Web Soil Survey, the site soils consists of Solona loam. Solona loam has 0 – 3 percent slopes and consists of deep, somewhat poorly drained soils. Solona loam is composed of 9 inches of loam over sandy loam. Permeability of this soil is moderate. Depth to groundwater is 1-2 feet below ground surface.

Site soils observed during soil boring activities consisted primarily of sandy loam. On-site depth to groundwater measurements has shown groundwater to be located between 2.99 ft bgs (monitoring well MW-20) to 9.28 ft bgs (monitoring well MW-10). Hydraulic conductivity was averaged at 8.5 ft/day. Hydraulic gradient was calculated at 0.0125 ft/ft.

The WDNR Web View revealed that the site is located adjacent to Herman Creek.

According to the Bedrock Map of Wisconsin, University of Wisconsin – Extension Geological and Natural History Survey, date 1982, the site bedrock conditions are described as sedimentary rocks of the Paleozoic Age that correlate with the Ordovician System. The bedrock is composed of dolomite with some limestone and shale that includes the Galena, Decorah and Platteville groups. The underlying bedrock is estimated to range from 0 to 15 meters below ground surface. Site investigation activities encountered bedrock varying from 12.5 to 14 feet bgs.

Figures 3 and 4 illustrate a cross-sectional view of site geology along transect A-a" and B-B', respectively. Figures 5 and 6 illustrate the site potentiometric conditions associated with the March 12, 2018, and August 14, 2018, sampling events, respectively.

2.2 Receptors

Utilities

The subject property is serviced by the following public utilities: electric and telephone. The location of these utility corridors does not serve the potential as contamination migration pathways.

Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313

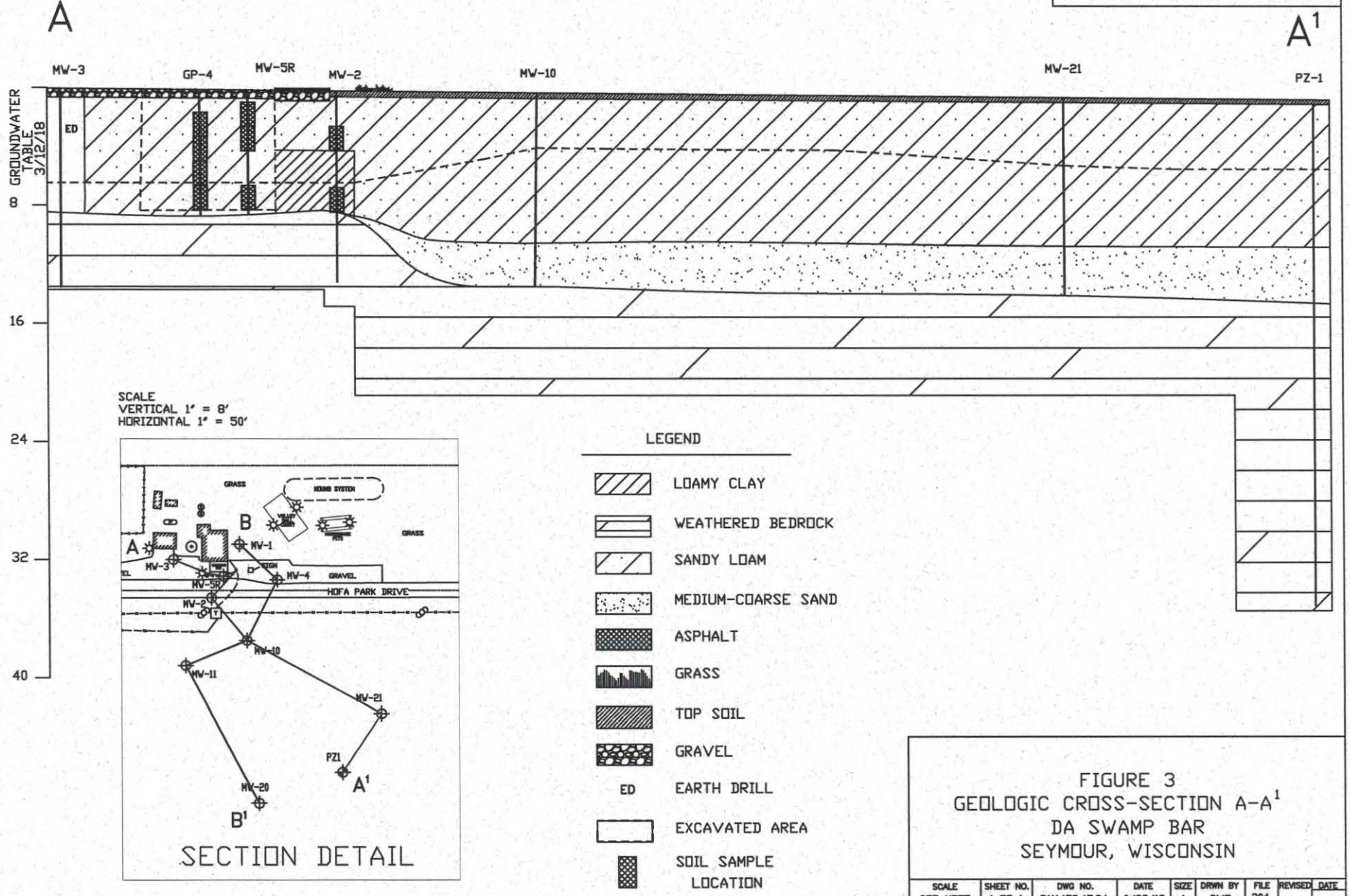
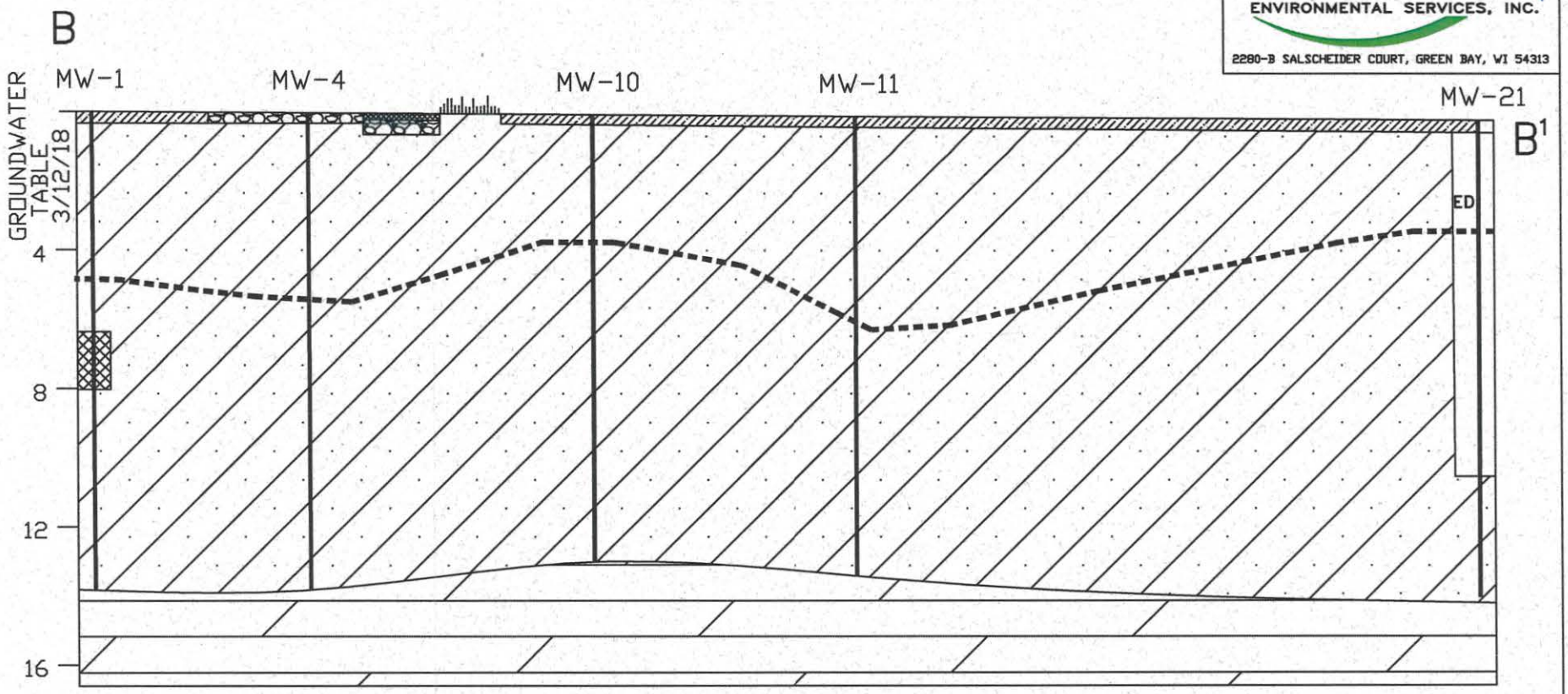
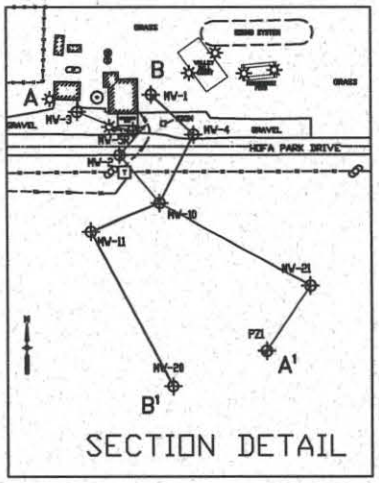


FIGURE 3
GEOLOGIC CROSS-SECTION A-A^1
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
SEE NOTE	1 OF 1	P111453.45.3.1	6/28/19	A	SVD	204		

Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313





LEGEND

- WEATHERED BEDROCK
- SANDY LOAM
- ASPHALT
- GRASS
- TOP SOIL
- GRAVEL
- ED — EARTH DRILL
- SOIL SAMPLE LOCATION

FIGURE 4
GEOLOGIC CROSS-SECTION B-B1
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
SEE NOTE	1 OF 1	P111453.45.4.1	6/28/19	A	SVD	204		

Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313

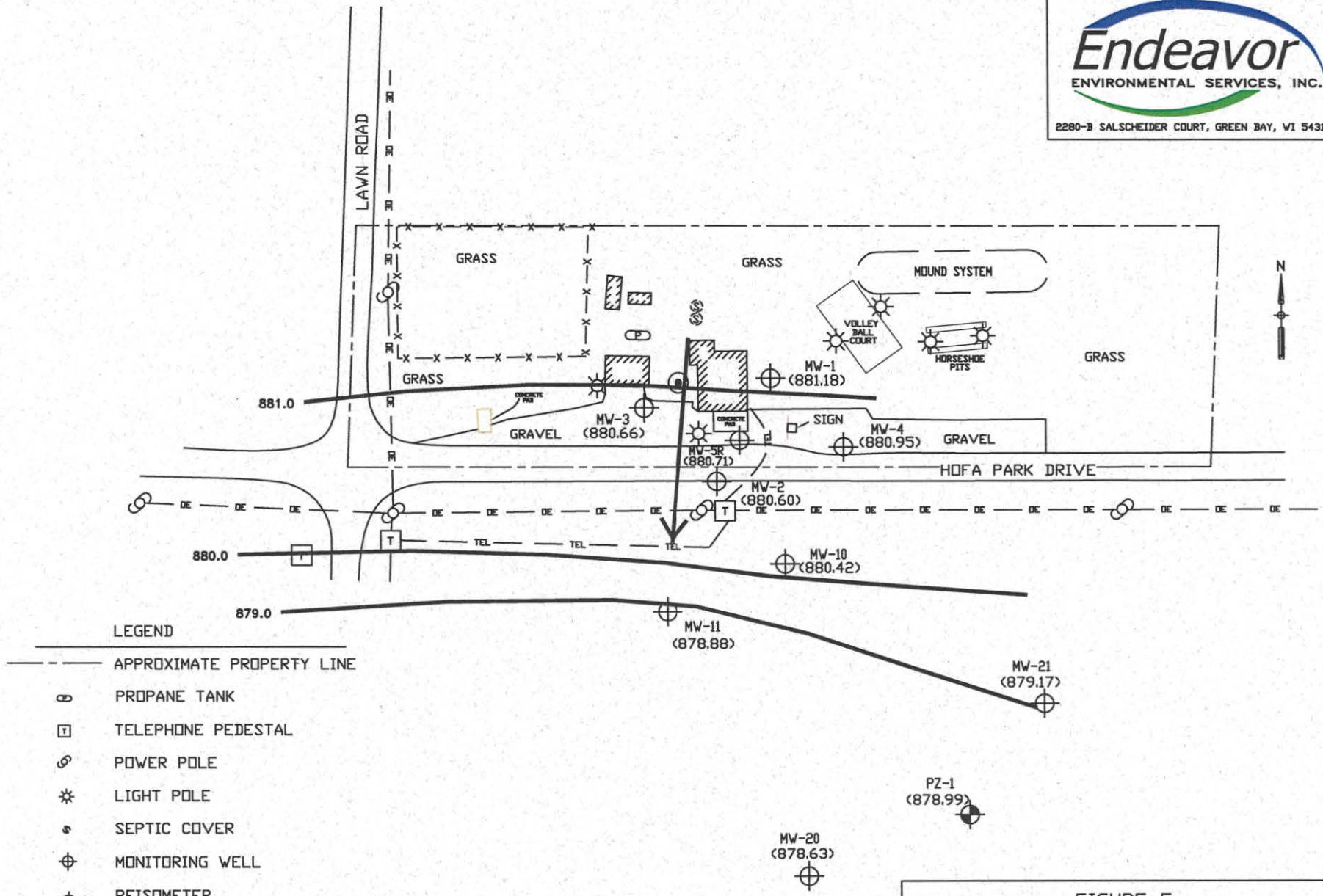
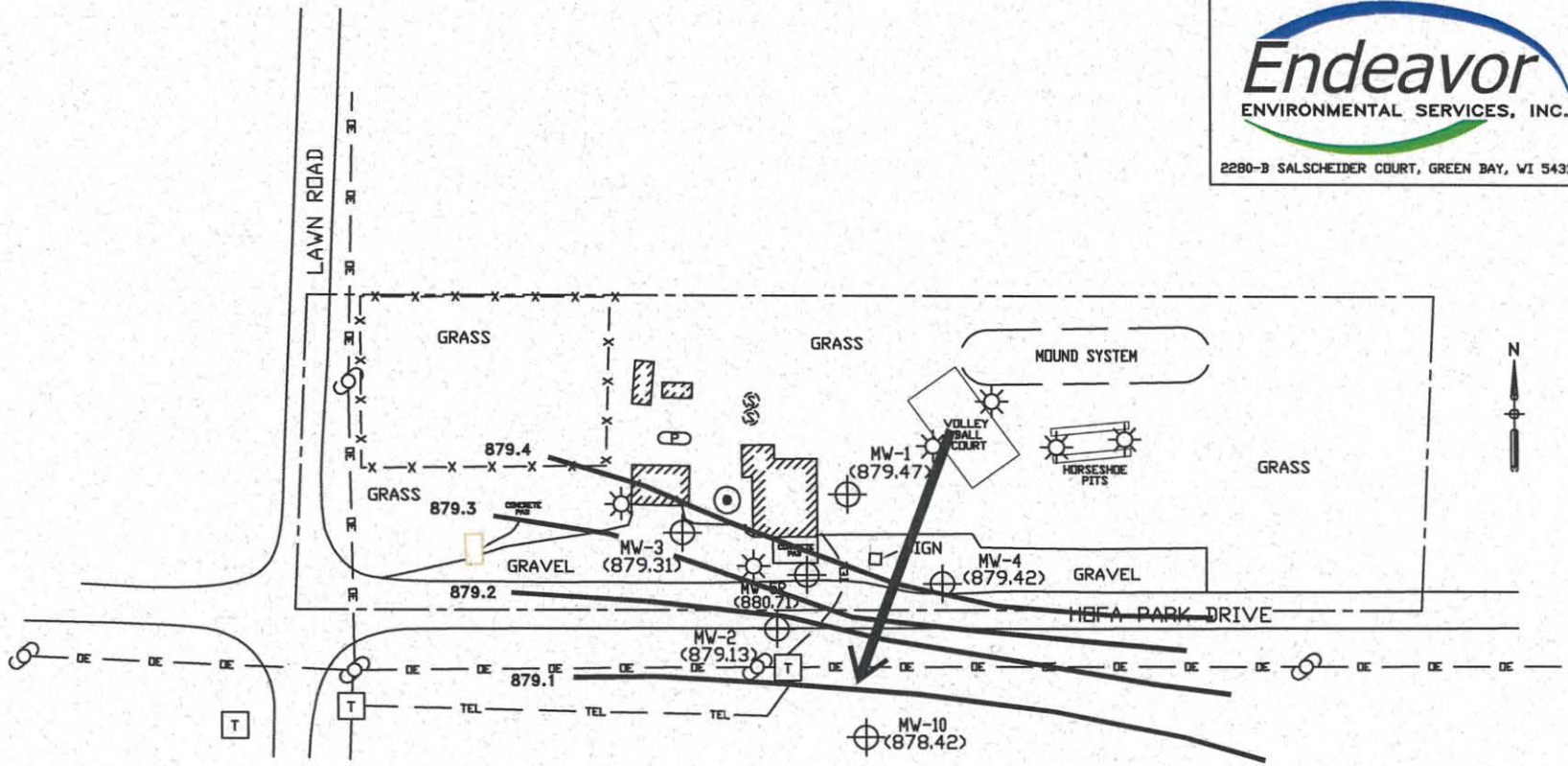


FIGURE 5
POTENTIOMETRIC SURFACE MAP
(3/12/2018)
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 100'	1 OF 1	P101399.40.5.1	6/28/19	A	SVO	528		

Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313



LEGEND

- APPROXIMATE PROPERTY LINE
- PROPANE TANK
- TELEPHONE PEDESTAL
- POWER POLE
- LIGHT POLE
- SEPTIC COVER
- MONITORING WELL
- PEISOMETER
- POTABLE WELL
- FENCE
- OVERHEAD ELECTRIC
- UNDERGROUND TELEPHONE

MW-11
(877.68)

MW-21
(879.17)

PZ-1
(878.99)

MW-20
(878.63)

FIGURE 6
POTENTIOMETRIC SURFACE MAP
(8/14/2018)
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 100'	1 OF 1	P101399.40.6.1	6/28/19	A	SVO	528		

Potable Wells

The subject property is serviced by a potable well located at the southwest corner of the bar building. Well construction specifications for the site potable well are unconfirmed. The nearest adjacent potable well is located over 600 feet west of the subject property. Wisconsin Geologic and Natural History Survey (WGNHS) well records were reviewed in preparation of this SIWP. The WGNHS records identified four wells in the quarter section surrounding the subject property. Based upon the reviewed information, the identified potable wells range from 142 to 337 feet below the ground surface. All of these wells were outfitted with 6-inch steel casing.

3.0 SUMMARY OF SITE INVESTIGATION ACTIVITIES

3.1 Site Investigation Field Activities

Endeavor prepared a Site Investigation Work Plan (SIWP) that was submitted to the WDNR on October 31, 2011.

On December 12, 2013, Endeavor supervised the installation of eight Geoprobe soil borings (GP-1 thru GP-8), each extending to a depth of ten feet below ground surface by On-site Environmental Services, Inc., of Sun Prairie, WI. The soil boring locations are illustrated in Figure 2a. A total of twenty-one soil samples were collected and submitted to Synergy Environmental Lab, Inc., (Synergy) of Appleton, Wisconsin, for laboratory analysis of VOCs, PAHs, PVOCs plus naphthalene and total lead. Three groundwater samples were also collected via temporary monitoring well and submitted to Synergy for laboratory analysis of VOCs and PAHs.

Soil sample laboratory analytical results reported contaminate concentrations exceeding WAC, NR 720 RCLs indicator in each of the soil samples analyzed. Soil sample laboratory analytical results reported benzene, ethylbenzene, toluene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, naphthalene and 1-methyl-naphthalene at concentrations exceeding WAC, NR 720 RCLs. The soil sample laboratory analytical results are summarized in Table A.1. Groundwater sample laboratory analytical results reported concentrations of benzene, ethyl-benzene, toluene, total TMBs, total xylenes and naphthalene at levels exceeding WAC, NR 140 ESs and/or PALs. The groundwater sample laboratory analytical results are summarized in Table A.2.

On December 20, 2013, Endeavor personnel oversaw the installation of five WAC, NR 141 groundwater monitoring wells (MW-1 thru MW-5) at the subject site by Geiss Soil & Samples LLC, (Geiss) of Merrill, WI. The monitoring well configuration is also depicted on Figure 2a. Groundwater monitoring wells MW-1 thru MW-5 were each installed to a depth between 13.5 and 14.5 feet below ground surface with ten feet of well screen per WAC, NR 141 requirements.

Table A.2
Groundwater Analytical Results
Da Swamp Bar
Pulaski, Wisconsin

Sample ID	Sample Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	cis - 1, 2 Dicloroethene	sec-Butylbenzene	n-Butylbenzene	Isopropyl benzene	n-Propyl benzene	p-Isopropyl toluene	Groundwater Depth (bgs)	Groundwater Elevation (above msl)
GP-3	12/12/2013	***5.0***	4.4	0.92 J	7.7	12.4	<0.23	4.1 J	<0.35	<0.33	<0.35	5.3	11.2	<0.31	--	--
GP-5	12/12/2013	**10,900**	**3,800**	**43,000**	**16,700**	**3180 J**	<46	**1,120**	<76	<66	82 J	98 J	320	<62	--	--
GP-6	12/12/2013	**86**	*271*	29.9	*464*	**947**	<2.3	**102**	<3.8	13.6	65	29.2	144	5.6 J	--	--
MW-1	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	5.50	880.58
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	4.90	881.18
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	6.61	879.47
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	4.30	881.78
MW-2	12/27/2013	**12,600**	**1,440**	**11,900**	**5,690**	**1,266**	**288**	<250	<41.9	<60.5	<40.0	38.0 J	122	<39.7	6.46	880.2
	3/12/2018	**2,990**	*301*	**2,960**	*1,213*	*267.5*	*22.3 J*	*78.5*	NA	NA	NA	NA	NA	NA	6.06	880.6
	8/14/2018	**184**	24.7	108	65.2	13.1 J	1.8 J	*5.2*	NA	NA	NA	NA	NA	NA	7.53	879.13
	11/30/2018	**494**	124	*609*	383	*69.8*	2.9 J	*19.3*	NA	NA	NA	NA	NA	NA	5.25	881.41
MW-3	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	6.50	880.31
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	6.15	880.66
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	7.50	879.31
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	5.29	881.52
MW-4	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	5.67	880.5
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	5.22	880.95
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.67	NA	NA	NA	NA	NA	NA	6.75	879.42
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	4.49	881.68
MW-5	12/27/2013	**8,650**	**2,980**	**35,900**	**15,600**	**2,933**	<197	<1000	<168	<242	<150	<136	272 J	<159	6.47	--
MW-5R	3/12/2018	**665**	**2,760**	**7,240**	**12,190**	**3,969**	<48.5	**865**	NA	NA	NA	NA	NA	NA	6.07	880.71
	8/14/2018	**227**	**1,420**	**1,270**	**5,510**	**2,746**	<12.8	**618**	NA	NA	NA	NA	NA	NA	7.51	879.27
	11/30/2018	**215**	**1,760**	**2,240**	**6,940**	**2,944**	<16.0	**605**	NA	NA	NA	NA	NA	NA	5.30	881.48
MW-10	2/4/2014	**600**	**1,800**	*242*	**5,610**	**1,920**	<11.5	**430**	<19	<16.5	24 J	59	182	<15.5	7.44	876.72
	3/12/2018	**208**	**1,010**	95.5	**3,760**	**1,190**	12.9 J	**354**	NA	NA	NA	NA	NA	NA	3.74	880.42
	8/14/2018	**855**	**1,120**	746	**3,550**	**1,398**	12.1	**418**	NA	NA	NA	NA	NA	NA	5.24	878.92
	11/30/2018	**704**	**1,320**	275	**4,290**	**1,465**	12.8 J	**389**	NA	NA	NA	NA	NA	NA	3.00	881.16
MW-11	2/4/2014	<0.24	<0.55	<0.69	<1.32	<3.6	0.28 J	<1.7	<0.38	<0.33	<0.35	<0.3	<0.25	<0.31	9.28	875.65
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	6.05	878.88
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	7.25	877.68
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	4.96	879.97
MW-20	3/12/2018	**13.4**	5.4	0.56 J	2.44 J	2.12	9.9	1.1	NA	NA	NA	NA	NA	NA	3.65	878.63
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	6.6	<0.51	NA	NA	NA	NA	NA	NA	4.95	877.33
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	5.9	<0.51	NA	NA	NA	NA	NA	NA	2.99	879.29
MW-21	3/12/2018	<0.40	0.46 J	0.66 J	1.8 J	1.37 J	<0.48	0.55 J	NA	NA	NA	NA	NA	NA	4.32	879.17
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	5.64	877.85
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	3.47	880.02
PZ-1	3/12/2018	<0.40	0.48 J	<0.39	<1.25	1.12 J	0.85 J	1.2	NA	NA	NA	NA	NA	NA	4.75	878.99
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	5.86	877.88
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA	NA	NA	NA	NA	3.47	880.27
SUMP	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	<0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	<0.40	--	--
	3/24/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	--	--
POTABLE	12/27/2013	<0.24	<0.21	<0.22	<0.39	<0.50	<0.25	<0.50	<0.23	<0.25	<0.24	<0.12	<0.25	<0.25	--	--
	3/24/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA	--	--
NR 140 enforcement standard		5	700	800	2,000	480	60	100	70	NS	NS	NS	NS	NS	--	--
NR 140 preventive action limit		0.5	140	160	400	96	12	10	7	NS	NS	NS	NS	NS	--	--

Notes:
(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
All concentrations reported are in parts per billion (ug/L)
Bold value represents exceedance of NR 140 enforcement standard
Italic value represents exceedance of NR 140 preventive action limit

TMB:	trimethylbenzene	NS:	no standard
MTBE:	methyl tert-butyl ether	NA:	not analyzed/ not applicable
bgs:	below ground surface	msl:	mean sea level

Table A.2 (continued)
Groundwater Analytical Results
Da Swamp Bar
Pulaski, Wisconsin

Polycyclic Aromatic Hydrocarbons

Sample ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
GP-3	12/12/2013	0.028 J	<0.02	<0.02	<0.025	<0.018	<0.02	<0.023	<0.027	<0.018	<0.023	<0.026	0.036 J	<0.027	0.45	0.52	2.58	0.114	<0.025
GP-5	12/12/2013	<10.5	<10	<10	<12.5	<9	<10	<11.5	<13.5	<9	<11.5	<13	<10	<13.5	940	1,680	1,990	<9	<12.5
MW-1	12/27/2013	<0.0064	<0.0053	<0.0062	<0.0065	<0.011	<0.0083	<0.0090	<0.012	<0.0080	<0.0074	0.0098 J	<0.0072	<0.0095	<0.0070	0.0074 J	0.0082 J	0.014 J	0.011 J
MW-2	12/27/2013	<3.2	<2.6	<3.1	<3.2	<5.3	<4.2	<4.5	<5.8	<4.0	<3.7	<2.9	<3.6	<4.8	35.5	72.8	**241**	<2.8	<3.0
MW-3	12/27/2013	<0.0064	<0.0053	<0.0062	0.0068 J	<0.011	0.0091 J	<0.0090	<0.012	<0.0080	<0.0074	<0.0058	<0.0072	<0.0095	<0.0070	<0.0068	0.0095 J	0.011 J	0.0065 J
MW-4	12/27/2013	<0.0064	<0.0053	<0.0062	<0.0065	<0.011	<0.0083	<0.0090	<0.012	<0.0080	<0.0074	0.0068 J	<0.0072	<0.0095	<0.0070	<0.0068	0.0056 J	0.011 J	0.0075 J
MW-5	12/27/2013	<25.6	<21.2	<24.8	<26.0	<42.4	<33.2	<36.0	<46.0	<32.0	<29.6	<23.2	<28.8	<38.0	686	1,510	**2,290**	<22.0	<23.6
MW-10	2/4/2014	<1.8	<2	<1.8	<2.3	<2	<1.9	<2.4	<2.7	<1.8	<2.8	<2.2	<2.2	<2.7	12.6	18.3	**179**	<1.8	<2.2
MW-11	2/4/2014	<0.018	<0.02	<0.018	0.042 J	<0.02	0.025 J	<0.024	<0.027	0.02 J	<0.028	<0.022	<0.022	<0.027	0.023 J	<0.024	0.194	<0.018	0.025 J
POTABLE	12/27/2013	<0.0064	<0.0053	<0.0062	<0.0065	<0.011	<0.0083	<0.0090	<0.012	<0.0080	<0.0074	0.0068 J	<0.0072	<0.0095	0.097	0.23	0.33	0.013 J	0.0076 J
NR 140 enforcement standard		NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
NR 140 preventive action limit		NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	NS	NS	10	NS	50

Notes: (J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
Bold value represents exceedance of NR 140 enforcement standard
All concentrations reported are in parts per billion (ug/L)
NS: no standard

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On December 27, 2013, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-5, site potable and basement sump. An indoor air sample was also collected from the basement of the bar via Summa cannister. Depth to groundwater measurements were collected and each monitoring well was purged via bailer prior to sampling. Groundwater samples from the entire monitoring well network were appropriately preserved and submitted to Pace Analytical, Inc., (Pace) in Green Bay, Wisconsin, for VOC and PAH analysis. The air sample was appropriately preserved and submitted to Synergy for laboratory analysis for TO–15 VOC analysis.

On January 31, 2014, Endeavor personnel oversaw the installation of two additional WAC, NR 141 groundwater monitoring wells (MW-10 and MW-11) at the subject site by Geiss. Groundwater monitoring wells MW-10 and MW-11 were installed to a depth of 12.5 feet below ground surface with ten feet of well screen per WAC, NR 141 requirements.

On February 4 2014, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-10 and MW-11. Depth to groundwater was measured and each well was purged via bailer. Groundwater samples were appropriately preserved and submitted to Synergy for VOC and PAH analysis.

On November 13, 2014, Endeavor personnel were on-site to collect an indoor air sample from the bar basement. The sample was collected near the sump via Summa cannister and submitted to ALS Environmental of Holland, MI, for TO-15 VOC analysis.

On May 16-17, 2016, Endeavor supervised the excavation of petroleum impacted soils by BEST Enterprises, LLC of De Pere, Wisconsin. A total of 537.83 tons of soil excavated and transported to Advanced Disposal Hickory Meadows Landfill, LLC in Hilbert, Wisconsin, for disposal. Monitoring well MW-5 was properly abandoned during excavation activities. A total of nine confirmation soil samples were collected from the limits of excavation activities, preserved and submitted to Pace for PVOC plus naphthalene analysis. Excavation activities and associated findings were summarized in the Excavation Summary dated December 31, 2018, which was previously submitted to the WDNR.

On February 21, 2018, Endeavor personnel oversaw the installation of four additional WAC, NR 141 groundwater monitoring wells (MW-5R, MW-20, MW-21) and a piezometer (PZ-1) at the subject site by Sam's Well Drilling, LLC. Groundwater monitoring wells MW-5R, MW-20 and MW-21 were installed to a depth of thirteen feet bgs with ten feet of well screen per WAC, NR 141 requirements. Groundwater piezometer well PZ-1 was installed to a depth of thirty-three feet bgs with five feet of well screen per WAC, NR 141 requirements. WDNR forms associated with site investigation activities can be found in Appendix B.

On March 12, 2018, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-4, MW-5R, MW-10, MW-11, MW-20, MW-21, and PZ-1. Depth to groundwater measurements were collected and each monitoring well was purged by

bailer prior to sampling. Groundwater samples collected were appropriately preserved and submitted to Pace for PVOC plus naphthalene analysis.

On March 24, 2018, Endeavor personnel were on-site to collect water samples from the basement sump and site potable well. Endeavor also collected an air sample from the basement below the bar. The water and air samples were submitted to Pace for PVOC plus naphthalene and TO-15 VOC analysis, respectively.

Soil, groundwater and indoor air sample laboratory analytical reports are provided in Appendix C, D and E, respectively.

3.2 Soil Contaminant Investigation

Site investigation soil sample laboratory analytical results have shown benzene, ethylbenzene, toluene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene at levels exceeding their respective Calculated RCLs (groundwater protection). The observed soil contaminant plume is located on the source property, as well as, extends into the Hofa Park Drive right-of-way. All remaining analyzed constituents were reported at levels below their respective laboratory reporting limits or applicable regulatory standards. Table A.1 provides a complete summary of the soil sample laboratory analytical results. Figure 7 illustrates the lateral extent of petroleum soil contamination exceeding calculated RCLs. Figures 8 illustrate the vertical extent of petroleum soil contamination exceeding the calculated RCLs.

As these figures illustrate, the extent of petroleum soil contamination present at the site has been adequately defined. The soil contaminant plume extends east from the former USTs to the former dispenser location.

3.3 Groundwater Contaminant Investigation

Site investigation groundwater sample laboratory analytical results have reported benzene, ethylbenzene, toluene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene at levels exceeding WAC, NR 140 ESs or PALs. Monitoring points reporting contaminant concentrations exceeding WAC, NR140 ESs or PALs included monitoring well MW-2, MW-5/5R, MW-10, and MW-20. Table A.2 provides a complete summary of the groundwater sample laboratory analytical results. Figure 9 illustrates the extent of groundwater contamination exceeding WAC, NR 140 ESs.

3.4 Free Product Assessment

Free product was not encountered during any of the investigative activities performed at the subject site.

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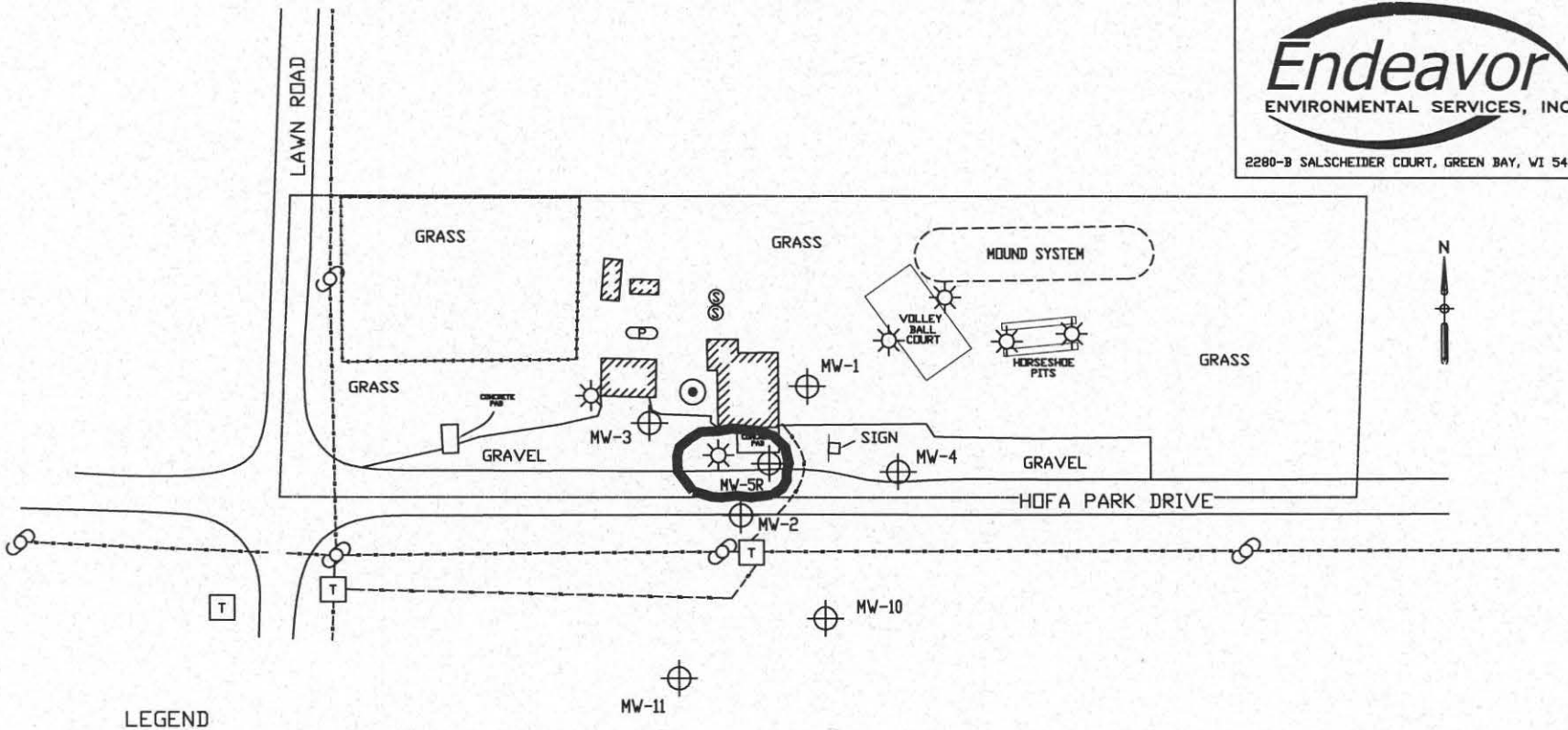
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313



LEGEND

- APPROXIMATE PROPERTY LINE
- PROPANE TANK
- TELEPHONE PEDESTAL
- POWER POLE
- LIGHT POLE
- SEPTIC COVER
- MONITORING WELL
- PEISOMETER
- POTABLE WELL
- FENCE
- OVERHEAD ELECTRIC
- UNDERGROUND TELEPHONE

FIGURE 7
PRE-REMEDIAL EXTENT OF SOIL CONTAMINATION EXCEEDING WAC NR 720 RCLs (GROUNDWATER PROTECTION)
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 100'	1 OF 1	P101399.40.7.1	6/28/19	A	SVO	528		

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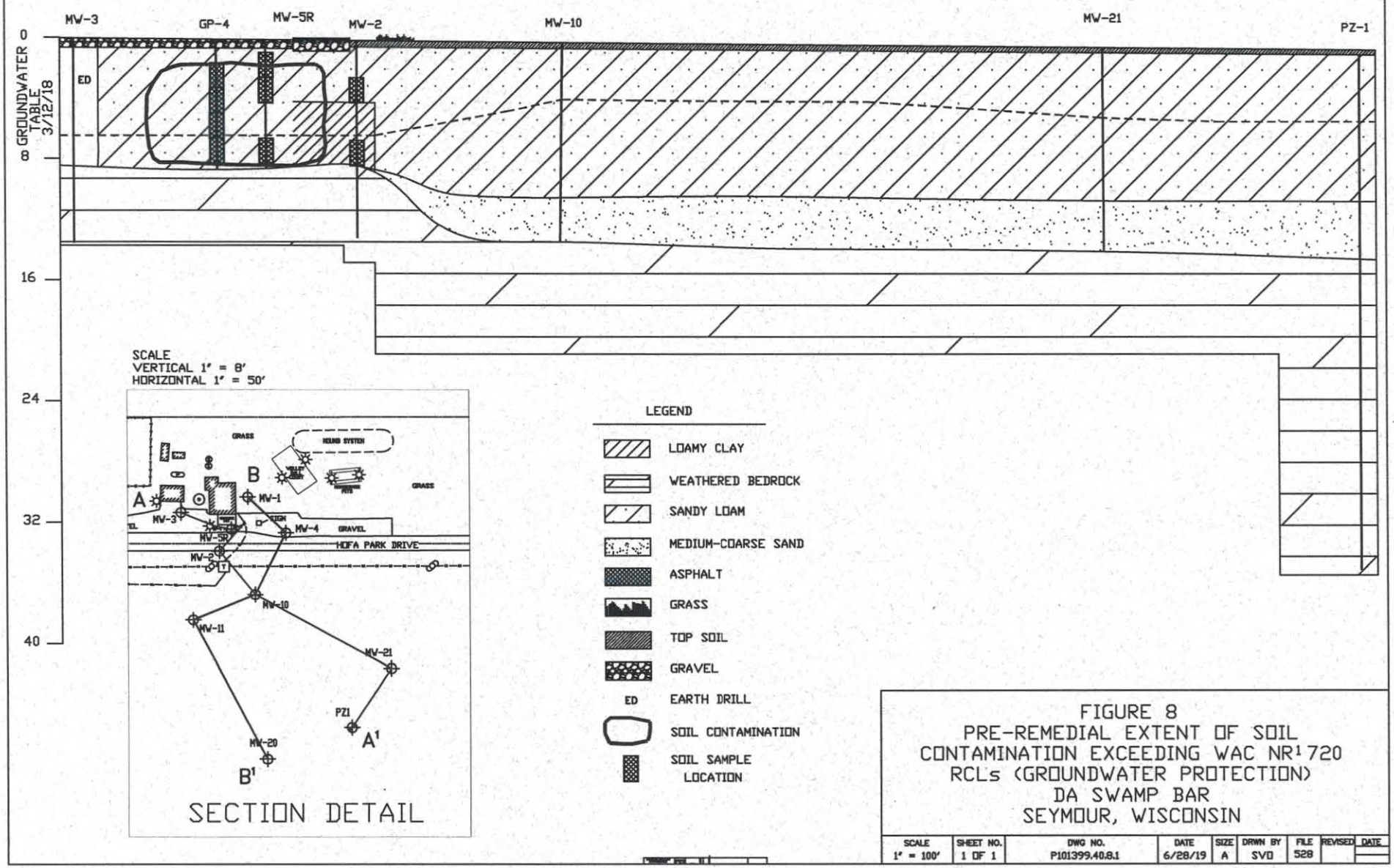
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313



SCALE
VERTICAL 1" = 8'
HORIZONTAL 1" = 50'

SECTION DETAIL

LEGEND

- LOAMY CLAY
- WEATHERED BEDROCK
- SANDY LOAM
- MEDIUM-COARSE SAND
- ASPHALT
- GRASS
- TOP SOIL
- GRAVEL
- ED — EARTH DRILL
- SOIL CONTAMINATION
- SOIL SAMPLE LOCATION

FIGURE 8
PRE-REMEDIAL EXTENT OF SOIL CONTAMINATION EXCEEDING WAC NR 720 RCLs (GROUNDWATER PROTECTION)
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 100'	1 OF 1	P101399.40.8.1	6/28/19	A	SVD	528		

Endeavor
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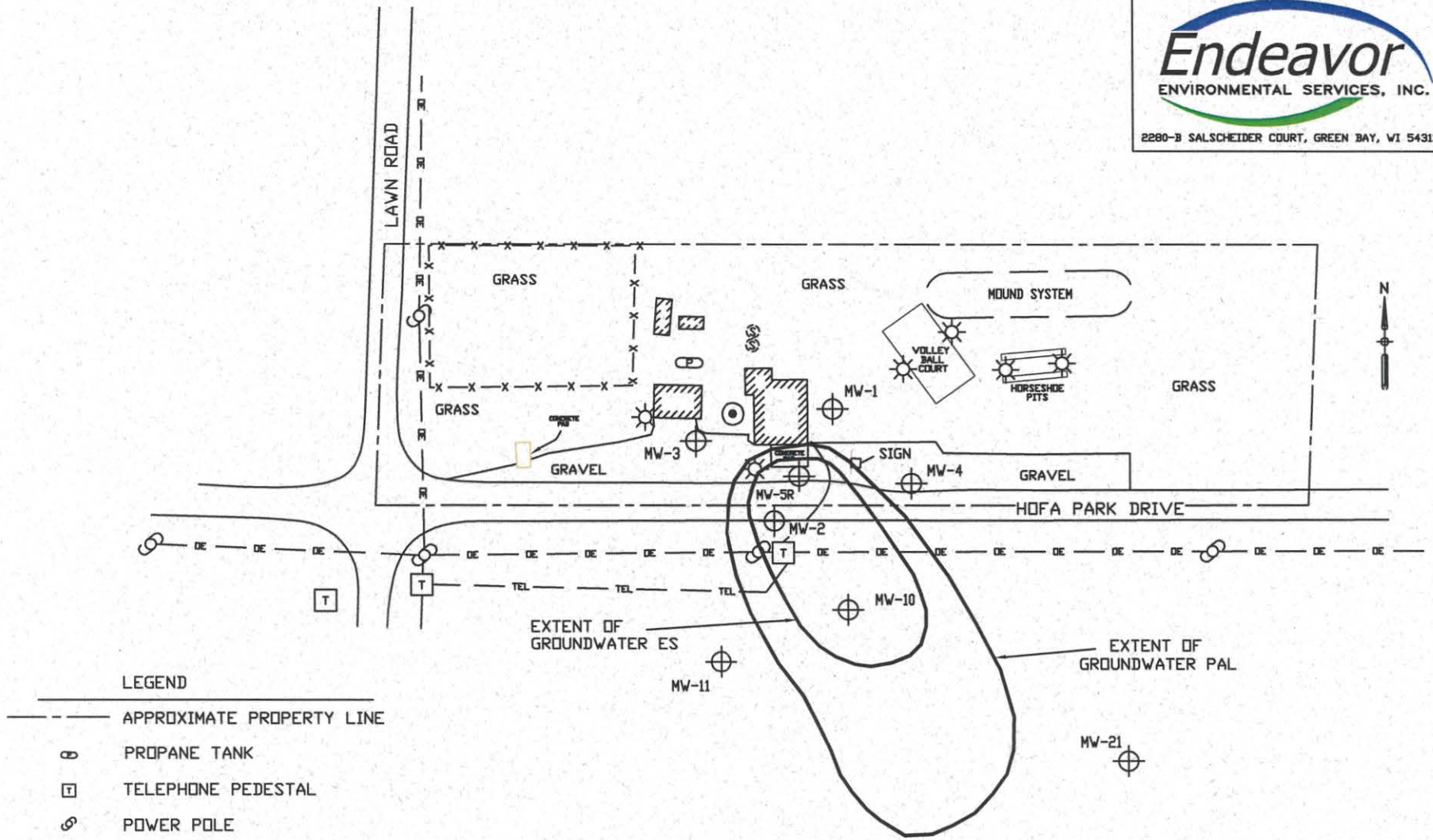
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313



LEGEND

- APPROXIMATE PROPERTY LINE
- PROPANE TANK
- TELEPHONE PEDESTAL
- POWER POLE
- LIGHT POLE
- SEPTIC COVER
- MONITORING WELL
- PEISOMETER
- POTABLE WELL
- FENCE
- OVERHEAD ELECTRIC
- UNDERGROUND TELEPHONE

FIGURE 9
GROUNDWATER CONTAMINATION
DA SWAMP BAR
SEYMOUR, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 100'	1 OF 1	P101399.40.9.1	6/28/19	A	SVD	528		

3.5 Contaminant Migration

The observed depth to groundwater measurements range between 2.99 ft bgs (monitoring well MW-20) to 9.28 feet bgs (monitoring well MW-11). Soil sample laboratory analytical results have confirmed the presence of soil contamination within the unsaturated zone. Utility investigation/assessment activities do not place any underground public utility corridors within the area of dissolved petroleum contamination. Therefore, site lateral corridors are not acting as preferential pathways for contaminant migration.

3.6 Vapor Intrusion Assessment

Endeavor evaluated the risk of vapor intrusion into the on-site building using the vapor intrusion assessment screening criteria provided in the WDNR's "Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin (RR-800)" guidance document. The guidance document provides several screening criteria that if met, can be used to make the determination that the risk of vapor intrusion at the site is minimal and no additional vapor intrusion assessment is necessary. These criteria are only applicable at sites where no petroleum odors have been detected inside of the building, which confirms the vapor intrusion pathway has been completed.

Endeavor completed indoor air sampling within the bar structure basement on three events (12/27/2013, 11/13/2014 & 03/24/2018). Summa cannister samples were collected near the groundwater sump. Concurrently, groundwater sump sampling was also performed on the first and last referenced indoor air sampling events. Air sample analytical results reported no detections of analyzed constituents above their Vapor Action Levels. Air sample laboratory analytical results can be found in Table A.3. Air Sample laboratory analytical reports can be found in Appendix Also, sump groundwater samples reported no detections of analyzed constituents above their respective laboratory reporting limits.

Based upon a review of the screening criteria, results of the above referenced sampling activities and completion of contaminant mass removal activities, there is minimal risk of significant vapor intrusion into the site building located at the subject property.

4.0 CONCLUSIONS

Site investigation activities outlined above have adequately defined the site soil and groundwater contaminant plumes associated with the site petroleum release. The site petroleum contamination is located east of the former UST basin and extended to the former dispenser location. Source excavation activities have removed the majority of the petroleum soil contamination associated with the subject release. Assessment activities have not identified a concern for vapor intrusion to site buildings or contaminant migration along any known utility corridors. The dissolved contaminant plume will be closely monitored for plume expansion under a natural attenuation monitoring program to address the dissolved contaminant plume.

Table A.3
Air Sample Laboratory Analytical Results
Da Swamp Bar
Pulaski, Wisconsin

Sample Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	Dichloro-difluoro-methane	Acetone	Methylene Chloride	Ethanol	2-Propanol	n-Hexane	Heptane	Chloro-methane	Tetra-hydrofuran	2,4,4-Trimethyl-pentane	Vinyl Acetate	Ethyl Acetate	2-Butanone
Basement																				
12/27/2013	1.6	<0.87	7.5	7.77	2.68	<0.72	<3.3	11.	12	3.8	940	4.9	1.1	0.98	0.58	0.8	0.93	<0.70	NA	<3.7
11/13/2014	<1.6	<2.2	19	3.1	<5.0	<1.8	<2.6	13	<2.4	8.6	NA	3.9	3.6	<2.0	1.6	<1.5	NA	3.3	6.9	4.4
3/24/2018	0.44 J	<0.25	2.2	1.37 J	1.26 J	<0.96	<0.86	2.5	12.3	<2.2	1960	3.9	<0.48	<0.30	1.2	<0.39	NA	2.5	6.2	3.6 J
Carcinogenic TR	3.6	1.1	NS	NS	NS	11	0.83	NS	NS	100	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Noncancer HI	31	1,000	5,200	100	63	3,100	3.1	100	32,000	630	NS	NS	730	420	94	2,100	NS	210	73	5,200

Notes: All concentrations reported are in parts per billion (ug/m^3)
Vapor Action Levels are based on the EPA Regional Screening Levels updated November 2017
(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
TMB: trimethylbenzene
MTBE: methyl tert-butyl ether
TR: Target Risk
NS: not analyzed/not applicable
NA: not applicable
HI: Hazard Index

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5.0 CONDITIONS

The opinions rendered in this correspondence are based upon the information collected during the above outlined activities and represents Endeavor's professional judgment regarding the status of the above-referenced site and, as such, are not a guarantee.

Endeavor's professional judgment is based upon generally accepted environmental practices and procedures designed to assess environmental liability with respect to current and customary standards of due care in the consulting industry at this time.

The services provided by Endeavor personnel during this project have been conducted in a manner consistent with the degree, care, and technical skill exercised by environmental consulting professionals currently practiced in this area under similar budget and time constraints. Beyond this, no warranty is implied or expressed. This letter does not constitute legal advice, nor does Endeavor purport to provide legal advice.

If you have any questions regarding this submittal, please feel free to contact me at (920) 437-2997 at your convenience.

Sincerely,

Joseph M. Ramcheck, P.H.
Senior Hydrologist

I, Joseph M. Ramcheck, hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03(1), Wis. Adm. Code, am registered in accordance with requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code.

cc: Ms. Linda Van Gheem, Responsible Party
File

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX A

Property Deed

State Bar of Wisconsin Form 1-2003

WARRANTY DEED

Document Number | Document Name

COPY

THIS DEED, made between LUCILLE E. VAN LANNEN, a single person

("Grantor," whether one or more), and DA SWAMP, LLC, a Wisconsin limited liability company

("Grantee," whether one or more).

Grantor for a valuable consideration, conveys to Grantee the following described real estate, together with the rents, profits, fixtures and other appurtenant interests, in SHAWANO County, State of Wisconsin ("Property") (if more space is needed, please attach addendum):

The South 179 feet of the West 633.2 feet of the Southwest Quarter of the Southwest Quarter (SW 1/4 of the SW 1/4), in Section Eighteen (18), Township Twenty-five (25) North, Range Eighteen (18) East, in the Town of Maple Grove, Shawano County, Wisconsin. Less and except that part sold for roadway purposes in Vol. 467 Records, Page 230, as Doc. No. 322549.

Recording Area

Name and Return Address
Attorney Jodi L. Arndt
Liebmann Conway Law Firm
P.O. Box 23200
Green Bay, WI 54305

030-18330-0010
Parcel Identification Number (PIN)

This is not homestead property.
(~~is~~) (is not)

Grantor warrants that the title to the Property is good, indefeasible, in fee simple and free and clear of encumbrances except:

Dated October 2, 2006.

_____ (SEAL)
*

*Lucille E. Van Lannen (SEAL)

_____ (SEAL)
*

_____ (SEAL)
*

AUTHENTICATION

Signature(s) _____

authenticated on _____.

*

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by Wis. Stat. § 706.06)

THIS INSTRUMENT DRAFTED BY:
Attorney Jodi L. Arndt
Liebmann, Conway, Olejniczak & Jerry, S.C.

ACKNOWLEDGMENT

STATE OF WISCONSIN)
) ss.
BROWN COUNTY)

Personally came before me on October 2, 2006,
the above-named LUCILLE E. VAN LANNEN

to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

*

Notary Public, State of Wisconsin
My commission (is permanent) (expires: _____)

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATION TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

*Type name below signatures.

Endeavor
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APPENDIX B

WDNR Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013	12 / 12 / 2013	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _	GP-1	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	8			0.5 - 2.0 Moist, brown sandy loam	ML			--						
S-2	12		2	2.0 - 4.0 Moist, brown sandy loam	ML			--						Lab Sample
S-3	16		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML			--						Lab Sample
S-4	20		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML			--						Lab Sample
S-5	8		8	8.0 - 8.5 Moist, reddish brown sandy loam	ML			--						
S-5	10			8.5 - 9.5 Saturated, medium-coarse gravelly sand	SW			--						
S-5	2		10	9.5 - 10.0 Saturated, grey medium-coarse sand	SP			--						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO		

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town: Maple Grove | Well ZIP Code: 54165-

Subdivision Name | Lot #

Reason For Removal From Service: Temporary boring | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS)

License/Permit/Monitoring #: GP-1

Original Well Owner

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner	State	ZIP Code
Seymour	WI	54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route: 2280-B Salscheider Court | Telephone Number: (920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313-		12/13/13

DNR Use Only

Date Received	Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _	_ _ _ _	GP-2	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18 , T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	10			0.5 - 2.0 Moist, reddish brown sandy loam	ML-			--						
S-2	14		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML-			--						Lab Sample
S-3	14		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML-			0.6						
S-4	20		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML-			--						Lab Sample
S-5	12		8	8.0 - 9.0 Moist, reddish brown sandy loam	ML-			0.6						
S-5	8			9.0 - 10.0 Saturated, medium-coarse sand	SP			0.6						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO	_ _ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town	Well ZIP Code
Maple Grove	54165-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temporary boring	_ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS):

License/Permit/Monitoring #: GP-2

Original Well Owner:

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner	State	ZIP Code
Seymour	WI	54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route	Telephone Number
2280-B Salscheider Court	(920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313-		12/13/13

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	GP-3	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat 0 ' "
Long 0 ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW									
S-1	10			0.5 - 2.0 Moist, reddish brown sandy loam	ML			15.3						
S-2	12		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML			131						Lab Sample
S-3	16		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML			31						Lab Sample
S-4	16		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML			17.3						Lab Sample
S-5	18		8	8.0 - 10.0 Saturated, medium-coarse silty sand	SP			10.9						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: GP-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: NA	DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12/12/2013 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 18, T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm: Tony Kapugi; On-site Environmental Services, Inc.
Distance from Waste/Source _____ ft.	Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM \|X SC ☐ ML \|X MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes \|X No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other \|X

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None \|X 99

16. Drilling additives used? ☐ Yes \|X No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top _____ ft. MSL or _5_ ft.

I. Well bottom _____ ft. MSL or _10_ ft.

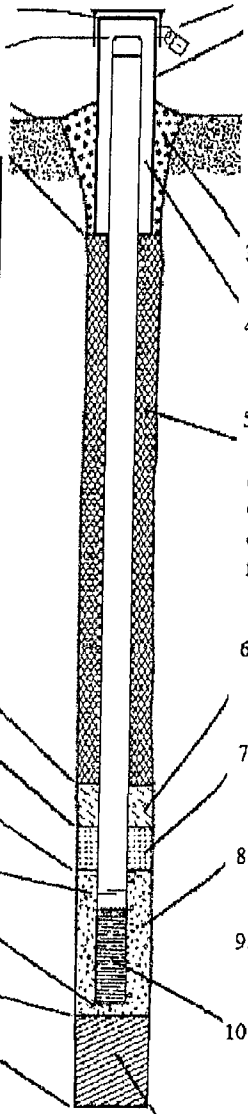
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom _____ ft. MSL or _10_ ft.

L. Borehole, diameter _2_ in.

M. O.D. well casing _1.25_ in.

N. I.D. well casing _1_ in.



1. Cap and lock? ☐ Yes \|X No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☐ 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Open borehole
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 \|X 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐

10. Screen material: PVC _____
a. Screen type: Factory cut \|X 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None \|X 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO		

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town	Well ZIP Code
Maple Grove	54165-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temporary boring	

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS):

License/Permit/Monitoring #: GP-3

Original Well Owner:

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner	State	ZIP Code
Seymour	WI	54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	[X] Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	[X] No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route	Telephone Number
2280-B Salscheider Court	(920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313-		12/13/13

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	GP-4	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	12			0.5 - 2.0 Moist, reddish brown sandy loam	ML			37.4						
S-2	16		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML			297						Lab Sample
S-3	16		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML			>1,000						Lab Sample
S-4	18		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML			>1,000						Lab Sample
S-5	10		8	8.0 - 10.0 Saturated, fine-medium silty sand	SM			249						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town: Maple Grove — Well ZIP Code: 54165-

Subdivision Name — Lot #

Reason For Removal From Service: Temporary boring — WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS)

License/Permit/Monitoring #: GP-4

Original Well Owner

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner: Seymour — State: WI — ZIP Code: 54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)? — Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Endeavor Environmental Services, Inc. — License # — Date of Filling & Sealing (mm/dd/yyyy): 12/12/2013

Street or Route: 2280-B Salscheider Court — Telephone Number: (920) 437-2997

City: Green Bay — State: WI — ZIP Code: 54313-

Signature of Person Doing Work — Date Signed: 12/13/13

DNR Use Only

Date Received — Noted By — Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	GP-5	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	12		2	0.5 - 2.0 Moist, reddish brown sandy loam	ML-			>1,000						Lab Sample
S-2	12			2.0 - 4.0 Moist, reddish brown sandy loam	ML-			>1,000						Lab Sample
S-3	16		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML-			>1,000						
S-4	12		6	6.0 - 7.5 Moist, reddish brown sandy loam	ML-			>1,000						
S-4	6			7.5 - 8.0 Moist, sand	SW			>1,000						
S-5	9		8	8.0 - 9.0 Saturated, medium reddish brown sandy loam	ML-			290						
S-5	9		10	9.0 - 10.0 Saturated, fine-medium loamy sand	ML-			290						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name Da Swamp	Local Grid Location of Well ☐ N. _____ ft. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name GP-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. __NA__	DNR Well ID No. ____
Facility ID _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 12 / 12 / 2013 m m d d y y y y
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 18 T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm Tony Kapugi On-site Environmental Services, Inc.
Distance from Waste/Source _____ ft. Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number _____	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM |X SC ☐ ML |X MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes |X No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other |X

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None |X 99

16. Drilling additives used? ☐ Yes |X No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top _____ ft. MSL or _5_ ft.

I. Well bottom _____ ft. MSL or _10_ ft.

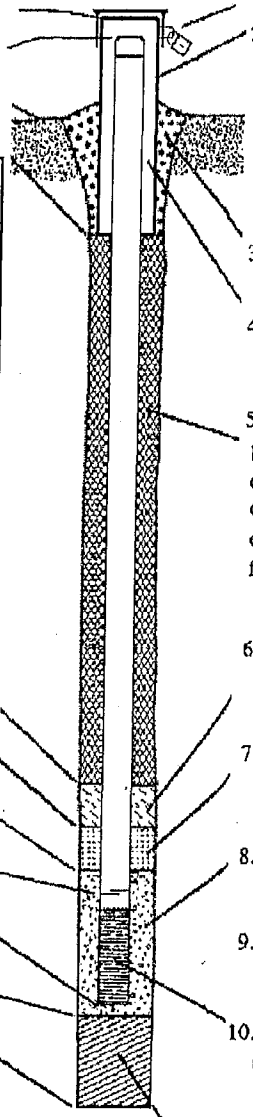
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom _____ ft. MSL or _10_ ft.

L. Borehole, diameter _2_ in.

M. O.D. well casing _1.25_ in.

N. I.D. well casing _1_ in.



1. Cap and lock? ☐ Yes |X No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Open borehole
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 |X 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐
10. Screen material: PVC _____
a. Screen type: Factory cut |X 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: .5 ft.
11. Backfill material (below filter pack): None |X 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO		

Latitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town: Maple Grove — Well ZIP Code: 54165-

Subdivision Name — Lot #

Reason For Removal From Service: Temporary boring — WI Unique Well # of Replacement Well: __ __ __ __ __

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS)

License/Permit/Monitoring #: GP-5

Original Well Owner

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner	State	ZIP Code
Seymour	WI	54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	[X] Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	[X] No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route: 2280-B Salscheider Court — Telephone Number: (920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313-		12/13/13

DNR Use Only

Date Received	Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	GP-6	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	12		1	0.5 - 2.0 Moist, reddish brown sandy loam	ML			4.4						
S-2	14		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML			16.5						Lab Sample
S-3	16		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML			13.0						
S-4	16		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML			16.8						Lab Sample
S-5	18		8	8.0 - 10.0 Moist, fine-medium silty sand	SM			79.5						Lab Sample
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: GP-6
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: [X]) or Well Location [X] Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: NA	DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12 / 12 / 2013 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 18, T. 25 N, R. 18 [X] E ☐ W	Well Installed By: Name (first, last) and Firm: Tony Kapugi; On-site Environmental Services, Inc.
Distance from Waste/Source _____ ft.	Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM [X] SC ☐ ML [X] MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other [X]

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None [X] 99

16. Drilling additives used? ☐ Yes [X] No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top _____ ft. MSL or _5_ ft.

I. Well bottom _____ ft. MSL or _10_ ft.

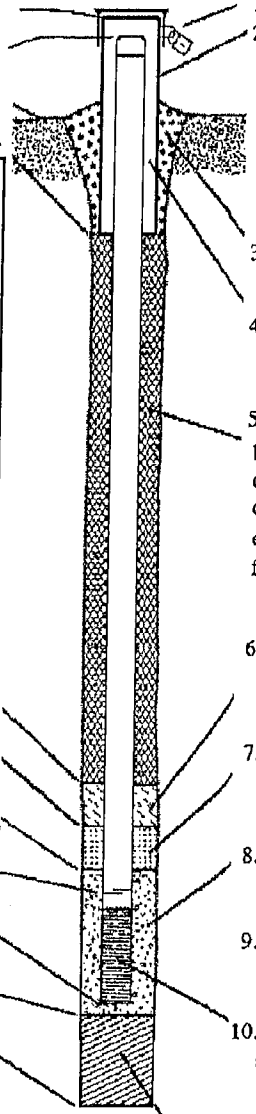
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom _____ ft. MSL or _10_ ft.

L. Borehole, diameter _2_ in.

M. O.D. well casing _1.25_ in.

N. I.D. well casing _1_ in.



1. Cap and lock? ☐ Yes [X] No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe:
Bentonite ☐ 30
Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Open borehole
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 [X] 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐
10. Screen material: PVC _____
a. Screen type: Factory cut [X] 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: .5 ft.
11. Backfill material (below filter pack): None [X] 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see Instructions)

_ _ ° _ _ . _ _ _ 'N
_ _ ° _ _ . _ _ _ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town: Maple Grove — Well ZIP Code: 54165-

Subdivision Name — Lot #

Reason For Removal From Service: Temporary boring — WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS)

License/Permit/Monitoring #: GP-6

Original Well Owner

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner	State	ZIP Code
Seymour	WI	54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	[X] Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	[X] No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route: 2280-B Salscheider Court — Telephone Number: (920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313-		12/13/13

DNR Use Only

Date Received	Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _	GP-7	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	10			0.5 - 2.0 Moist, reddish brown sandy loam	ML			3.6						
S-2	12		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML			21.4						Lab Sample
S-3	12		4	4.0 - 6.0 Moist, reddish brown sand loam with trace sand	ML			32.7						
S-4	12		6	6.0 - 8.0 Very moist, reddish brown sandy loam	ML			487						Lab Sample
S-5	14		8	8.0 - 10.0 Very moist, fine-medium silty sand	SM			211						
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to: ☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment ☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO	_ _ _ _ _	

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ ' __ __ __ 'N
__ __ ° __ __ ' __ __ __ 'W

¼ / ¼	¼	Section	Township	Range	
SW	SW	18	25 N	18	[X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town: Maple Grove — Well ZIP Code: 54165-

Subdivision Name — Lot #

Reason For Removal From Service: Temporary boring — WI Unique Well # of Replacement Well: _ _ _ _ _

2. Facility / Owner Information

Facility Name: Da Swamp

Facility ID (FID or PWS)

License/Permit/Monitoring #: GP-7

Original Well Owner

Present Well Owner: Da Swamp, LLC

Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner: Seymour — State: WI — ZIP Code: 54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route: 2280-B Salscheider Court — Telephone Number: (920) 437-2997

City: Green Bay — State: WI — ZIP Code: 54313-

Signature of Person Doing Work — Date Signed: 12/13/13

DNR Use Only

Date Received	Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		GP-8

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	12 / 12 / 2013 (m m / d d / y y y y)	12 / 12 / 2013 (m m / d d / y y y y)	geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _	GP-8	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: [X]) or Boring Location [X]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	GW			--						
S-1	14			0.5 - 2.0 Moist, reddish brown sandy loam	ML			0.8						
S-2	14		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML			1.1						Lab Sample
S-3	16		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML			1.3						
S-4	20		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML			2.8						
S-5	6		8	8.0 - 8.5 Moist, reddish brown sandy loam	ML			389						
S-5	14			8.5 - 10.0 Saturated, fine-medium loamy sand	SM			389						Lab Sample
			10											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
SHAWANO		

Latitude / Longitude (Degrees and Minutes) | Method Code (see instructions)
__ __ ° __ __ . __ __ 'N
__ __ ° __ __ . __ __ 'W

¼ / ¼	¼	Section	Township	Range
SW	SW	18	25 N	18 [X] E ☐ W

or Gov't Lot #

Well Street Address: W2490 Hofa Park Drive

Well City, Village or Town	Well ZIP Code
Maple Grove	54165-

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Temporary boring	

2. Facility / Owner Information

Facility Name: Da Swamp
Facility ID (FID or PWS):
License/Permit/Monitoring #: GP-4
Original Well Owner:
Present Well Owner: Da Swamp, LLC
Mailing Address of Present Owner: W2746 Half Mile Road

City of Present Owner	State	ZIP Code
Seymour	WI	54165-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
[X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/12/2013
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
[X] Other (specify): Geoprobe

Formation Type:
[X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2	

Was well annular space grouted? ☐ Yes [X] No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	[X] N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) [X] Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry * *
☐ Concrete [X] Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	Cubic Feet	Mix Ratio
Gravel	Surface	0.5	0.01	100%
3/8" chipped bentonite	0.5	10	0.2	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Endeavor Environmental Services, Inc.		12/12/2013

Street or Route	Telephone Number
2280-B Salscheider Court	(920) 437-2997

City	State	ZIP Code
Green Bay	WI	54313-

Signature of Person Doing Work:
Date Signed: 12/13/13

DNR Use Only

Date Received	Noted By

Comments:

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name: Da Swamp	License/Permit/Monitoring Number	Boring Number: MW-1
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: — Firm: Geiss Soil & Samples LLC	Date Drilling Started: 12 / 20 / 2013	Date Drilling Completed: 12 / 20 / 2013 — Drilling Method: hollow stem auger
WI Unique Well No.: VW250 — DNR Well ID No.: — Well Name: MW-1	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL — Borehole Diameter: 6.25 inches
Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒ — State Plane _____ N, _____ E — SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
Facility ID	County: SHAWANO — County Code: 59	Civil Town/City/ or Village: Maple Grove

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Topsoil	TO			--						
S-1	10			0.5 - 2.0 Moist, reddish brown sandy loam	ML-			--						
S-2	12		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML-			--						Lab sample
S-3	18		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML-			--						
S-4	20		6	6.0 - 8.0 Moist, reddish brown sandy loam	ML-			--						Lab sample
S-5			8	8.0 - 13.5 Earth drill				--						
			10											
			12											
			14											

Note: Drilling activites encountered refusal at 6ft bgs in first location of MW-1

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

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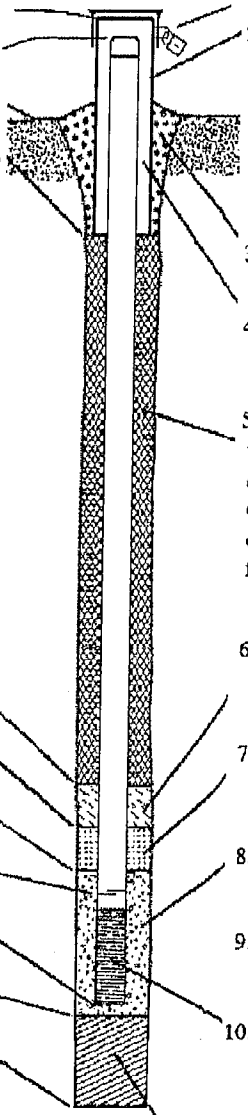
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW250 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12 / 20 / 2013 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 18 T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin Geiss Soil & Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:



A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM \|X SC ☐ ML \|X MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes \|X No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger \|X 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None \|X 99

16. Drilling additives used? ☐ Yes \|X No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.

1. Cap and lock? ☐ Yes \|X No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel \|X 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete \|X 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite \|X 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite \|X 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 0.75 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. \|X 3/8 in. ☐ 1/2 in. Bentonite chips \|X 32
c. _____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand
b. Volume added 4.5 ft^3

9. Well casing: Flush threaded PVC schedule 40 \|X 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut \|X 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None \|X 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	59	VW250	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	[X] 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casisng) 12.7 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.9 gal.

7. Volume of water removed from well 4.5 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.5 ft.	_____ ft.
Date	b. 12 / 27 / 2013 (m m d d y y y y)	12 / 27 / 2013 (m m d d y y y y)
Time	c. 02 : 15 ☐ a.m. [X] p.m.	02 : 25 ☐ a.m. [X] p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Joseph Last Name: Ramcheck
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Joseph Ramcheck
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Firm: Geiss Soil & Samples LLC	12 / 20 / 2013 (m m / d d / y y y y)	12 / 20 / 2013 (m m / d d / y y y y)	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VW251		MW-2	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	FL			--						
S-1	10		1	0.5 - 2.0 Moist, reddish brown sandy loam	ML-			--						
S-2	12		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML-			--						Lab sample
			3											
S-3	12		4	4.0 - 5.0 Moist, brown loamy clay	CL-M			--						
S-3	12		5	5.0 - 6.0 Moist, brown sandy loam	ML-			--						
S-4	24		6	6.0 - 8.0 Moist, brown sandy loam	ML-			0.4						Lab sample
			7											
S-5			8	8.0 - 14.5 Earth drill				--						
			9											
			10											
			11											
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name Da Swamp	Local Grid Location of Well ☐ N. _____ ft. ☐ S. ☐ E. _____ ft. ☐ W.	Well Name MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. VW251 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed 12 / 20 / 2013 (m m d d y y y y)
Type of Well Well Code 11 / mw	Section Location of Waste/Source SW 1/4 of SW 1/4 of Sec. 18 T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm Darrin Geiss Soil & Samples LLC
Distance from Waste/ Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM |X SC ☐ ML |X MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes |X No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger |X 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None |X 99

16. Drilling additives used? ☐ Yes |X No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

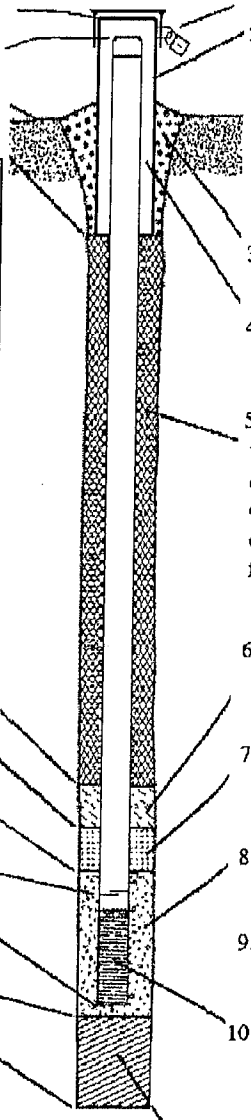
J. Filter pack, bottom _____ ft. MSL or 14 ft.

K. Borehole, bottom _____ ft. MSL or 14.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes |X No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel |X 04
Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite |X 30
Concrete ☐ 01
Other ☐ _____

4. Material between well casing and protective pipe:
Bentonite |X 30
Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite |X 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 0.75 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity |X 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. |X 3/8 in. ☐ 1/2 in. Bentonite chips |X 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand
b. Volume added 6 ft^3

9. Well casing: Flush threaded PVC schedule 40 |X 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut |X 11
Continuous slot ☐ 01
Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None |X 14
Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	59	VW251	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	[X] 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 6 min.

4. Depth of well (from top of well casisng) 13.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.9 gal.

7. Volume of water removed from well 3 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.46 ft.	_____ ft.
Date	b. 12 / 27 / 2013 (m m d d y y y y)	12 / 27 / 2013 (m m d d y y y y)
Time	c. 03 : 25 ☐ a.m. [X] p.m.	03 : 31 ☐ a.m. [X] p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Joseph Last Name: Ramcheck
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Joseph Ramcheck
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Firm: Geiss Soil & Samples LLC	12 / 20 / 2013 (m m / d d / y y y y)	12 / 20 / 2013 (m m / d d / y y y y)	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VW252		MW-3	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1			2 4 6 8 10 12 14	0.0 - 13.5 Earth drill to a depth of 13.5 feet below ground surface				--						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW252 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12 / 20 / 2013 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 18, T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin / Geiss Soil & Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes \|X No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger \|X 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None \|X 99

16. Drilling additives used? ☐ Yes \|X No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

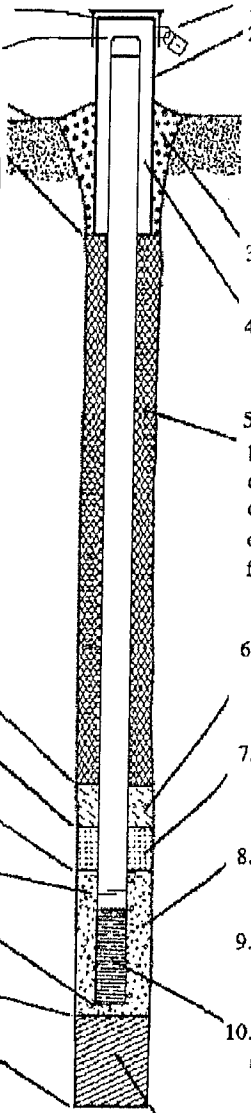
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes \|X No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel \|X 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete \|X 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite \|X 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite \|X 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 0.75 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity \|X 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. \|X 3/8 in. ☐ 1/2 in. Bentonite chips \|X 32
c. _____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand
b. Volume added 4.5 ft^3

9. Well casing: Flush threaded PVC schedule 40 \|X 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut \|X 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None \|X 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	59	VW252	

1. Can this well be purged dry? ☐ Yes [X] No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	[X] 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 15 min.

4. Depth of well (from top of well casisng) 12.7 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.6 gal.

7. Volume of water removed from well 10 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.5 ft.	_____ ft.
Date	b. 12 / 27 / 2013	12 / 27 / 2013
Time	c. 02 : 30 ☐ a.m. [X] p.m.	02 : 45 ☐ a.m. [X] p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Joseph Last Name: Ramcheck
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Joseph Ramcheck
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Firm: Geiss Soil & Samples LLC	12 / 20 / 2013 (m m / d d / y y y y)	12 / 20 / 2013 (m m / d d / y y y y)	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VW253		MW-4	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N _____ Feet ☐ S ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Gravel	FL			--						
S-1	14			0.5 - 2.0 Moist, reddish brown sandy loam	ML			--						
S-2	16		2	2.0 - 4.0 Moist, reddish brown sandy loam	ML			--						Lab sample
S-3	14		4	4.0 - 6.0 Moist, reddish brown sandy loam	ML			0.4						
S-4	10		6	6.0 - 7.5 Moist, reddish brown sandy loam	ML			0.9						
S-4	4			7.5 - 8.0 Moist, fine-medium gray sand				0.9						
S-5			8	8.0 - 13.5 Earth drill	SP			--						
			10											
			12											
			14											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

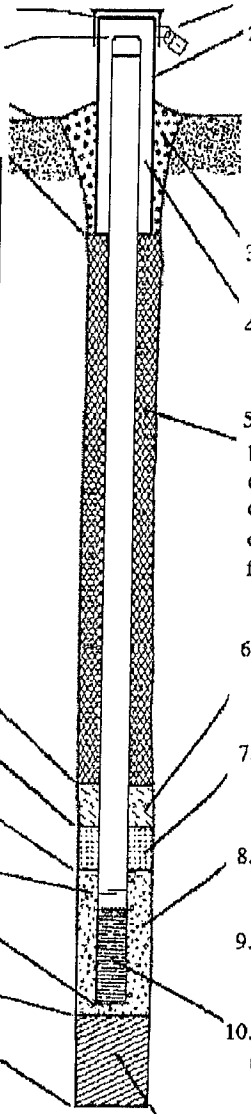
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW253 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12 / 20 / 2013 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 18, T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin / Geiss Soil & Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____



A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM \|X SC ☐ ML \|X MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes \|X No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger \|X 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None \|X 99

16. Drilling additives used? ☐ Yes \|X No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.

1. Cap and lock? ☐ Yes \|X No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel \|X 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete \|X 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite \|X 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite \|X 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 0.75 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity \|X 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. \|X 3/8 in. ☐ 1/2 in. Bentonite chips \|X 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand _____
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand _____
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 \|X 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC _____
a. Screen type: Factory cut \|X 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None \|X 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	59	VW253	

1. Can this well be purged dry? ☐ Yes [X] No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	[X] 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 2 gal.

7. Volume of water removed from well 10 gal.

8. Volume of water added (if any) gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.67 ft.	ft.
Date	b. 12 / 27 / 2013 (m m d d y y y y)	12 / 27 / 2013 (m m d d y y y y)
Time	c. 03 : 15 ☐ a.m. [X] p.m.	03 : 25 ☐ a.m. [X] p.m.
12. Sediment in well bottom	inches	inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	mg/l	mg/l
15. COD	mg/l	mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Joseph Last Name: Ramcheck
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: 
Print Name: Joseph Ramcheck
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name:	12 / 20 / 2013	12 / 20 / 2013	hollow stem auger
Firm: Geiss Soil & Samples LLC			

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VW254		MW-5	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: [X]) or Boring Location [X]
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1			2 4 6 8 10 12 14	0.0 - 13.5 Earth drill to a depth of 13.5 feet below ground surface				-						

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW254 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12 / 20 / 2013 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 18 T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin / Geiss Soil & Samples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes \|X No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger \|X 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None \|X 99

16. Drilling additives used? ☐ Yes \|X No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

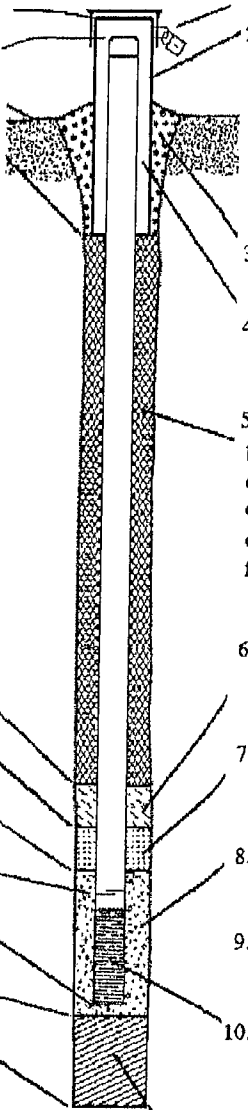
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes \|X No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel \|X 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete \|X 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite \|X 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite \|X 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 0.5 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity \|X 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. \|X3/8 in. ☐1/2 in. Bentonite chips \|X 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 \|X 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut \|X 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None \|X 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-5
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	59	VW254	

1. Can this well be purged dry? ☐ Yes [X] No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	[X] 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 21 min.

4. Depth of well (from top of well casisng) 13.4 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.9 gal.

7. Volume of water removed from well 1.9 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.47 ft.	_____ ft.
Date	b. 12 / 27 / 2013 (m m d d y y y y)	12 / 27 / 2013 (m m d d y y y y)
Time	c. 04 : 18 ☐ a.m. [X] p.m.	04 : 39 ☐ a.m. [X] p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Joseph Last Name: Ramcheck
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Joseph Ramcheck
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-10
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: |X) or Well Location |X Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VW255 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 1 / 31 / 2014 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 25 N, R. 18 |X E ☐ W	Well Installed By: Name (first, last) and Firm: Tony Kapugi; On-site Environmental Services, Inc.
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 2 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM \|X SC ☐ ML \|X MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes \|X No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger \|X 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None \|X 99

16. Drilling additives used? ☐ Yes \|X No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or 2 ft.

G. Filter pack, top _____ ft. MSL or 2.5 ft.

H. Screen joint, top _____ ft. MSL or 2.5 ft.

I. Well bottom _____ ft. MSL or 12.5 ft.

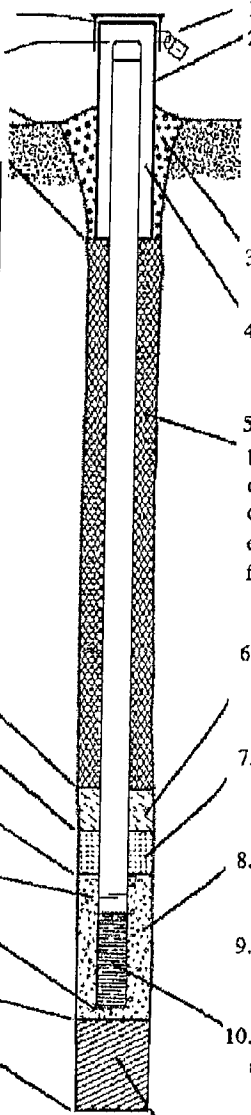
J. Filter pack, bottom _____ ft. MSL or 12.5 ft.

K. Borehole, bottom _____ ft. MSL or 12.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes \|X No

2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 3 ft.
c. Material: Steel \|X 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite \|X 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite \|X 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite \|X 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity \|X 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. \|X3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand
b. Volume added 5 ft^3

9. Well casing: Flush threaded PVC schedule 40 \|X 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut \|X 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None \|X 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-10

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	59	VW255	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	[X] 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casisng) 14.9 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 2 gal.

7. Volume of water removed from well 8 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 7.44 ft.	_____ ft.
Date	b. 02 / 04 / 2014 (m m d d y y y y)	2 / 4 / 2014 (m m d d y y y y)
Time	c. 01 : 00 ☐ a.m. [X] p.m.	01 : 10 ☐ a.m. [X] p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Craig Last Name: Eckstein
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Craig Eckstein
Print Name: Craig Eckstein
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name: Da Swamp	License/Permit/Monitoring Number:	Boring Number: MW-10

Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	Date Drilling Started: 1/31/2014 (m m / d d / y y y y)	Date Drilling Completed: 1/31/2014 (m m / d d / y y y y)	Drilling Method: hollow stem auger

WI Unique Well No.: VW255	DNR Well ID No.:	Well Name: MW-10	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 6.25 inches

Local Grid Origin ☐ (estimated: ☒) or Boring Location ☒
State Plane _____ N, _____ E
NW 1/4 of NW 1/4 of Section 19, T 25 N, R 18 E

Lat ___ ° ___ ' ___ "
Long ___ ° ___ ' ___ "

Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County: SHAWANO	County Code: 59	Civil Town/City/ or Village: Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1				0.0 - 0.5 Topsoil	TS			--						
S-1	16			0.5 - 2.0 Moist, brown sandy loam	ML			0.3						
S-2	18		2	2.0 - 4.0 Moist, brown sandy loam	ML			1.0						
S-3	18		4	4.0 - 6.0 Very moist, reddish brown mottled sandy loam	ML			1.3						
S-4	20		6	6.0 - 8.0 Very moist, reddish brown mottled sandy loam	ML			1.3						
S-5	14		8	8.0 - 9.5 Very moist, reddish brown mottled sandy loam	ML			1.9						
S-5	6		10	9.5 - 10.0 Very moist, grey medium-coarse sand	SP			1.9						
S-6				10.0 - 12.5 Earth drill to 12.5 feet below ground surface. Refusal at 12.5 feet below ground surface.										
			12											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp	SHAWANO	MW-11
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well ID Number**
	59_	VO000 / ___

1. Can this well be purged dry? ☐ Yes X No

2. Well development method

surged with bailer and bailed	☐	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	X	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	___

3. Time spent developing well 9___ min.

4. Depth of well (from top of well casisng) 15___ ft.

5. Inside diameter of well 2.06___ in.

6. Volume of water in filter pack and well casing 1.5___ gal.

7. Volume of water removed from well 8___ gal.

8. Volume of water added (if any) ___ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 9.28___ ft.	___ ft.
Date	b. 02 / 04 / 2014 (m m d d y y y y)	2 / 4 / 2014 (m m d d y y y y)
Time	c. 12 : 32 ☐ a.m. X p.m.	12 : 41 ☐ a.m. X p.m.
12. Sediment in well bottom	___ inches	___ inches
13. Water clarity	Clear ☐ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	___ mg/l	___ mg/l
15. COD	___ mg/l	___ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Craig Last Name: Eckstein
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Leland Last Name: VanGheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Craig Eckstein
Print Name: Craig Eckstein
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Da Swamp	Local Grid Location of Well ☐ N. _____ ft. ☐ S. ☐ E. _____ ft. ☐ W.	Well Name: MW-11
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: [X]) or Well Location [X] Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VO000 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 1/31/2014 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 25 N, R. 18 [X] E ☐ W	Well Installed By: Name (first, last) and Firm: Tony Kapugi, On-site Environmental Services, Inc.
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 2.5 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM [X] SC ☐ ML [X] MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes [X] No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger [X] 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None [X] 99

16. Drilling additives used? ☐ Yes [X] No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

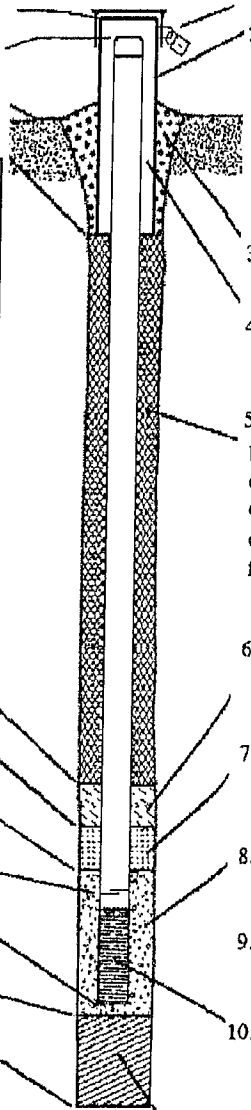
J. Filter pack, bottom _____ ft. MSL or 13 ft.

K. Borehole, bottom _____ ft. MSL or 13 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes [X] No

2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 3 ft.
c. Material: Steel [X] 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite [X] 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite [X] 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite [X] 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. [X] 3/8 in. ☐ 1/2 in. Bentonite chips [X] 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. Fine sand
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. Coarse sand
b. Volume added 5.5 ft^3

9. Well casing: Flush threaded PVC schedule 40 [X] 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut [X] 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None [X] 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		MW-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Tony Last Name: Kapugi Firm: On-site Environmental Services, Inc.	1 / 31 / 2014 (m m / d d / y y y y)	1 / 31 / 2014 (m m / d d / y y y y)	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO000		MW-11	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: [x]) or Boring Location [x]
State Plane _____ N, _____ E
NW 1/4 of NW 1/4 of Section 19, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	SHAWANO	59	Maple Grove

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	14		0	0.0 - 2.0 Moist, brown sandy loam	ML			0.3						
S-2	16		2	2.0 - 4.0 Moist, brown sandy loam	ML			0.3						
S-3	16		4	4.0 - 6.0 Moist, brown sandy loam with reddish mottling	ML			0.9						
S-4	20		6	6.0 - 8.0 Moist, brown sandy loam	ML			0.3						
S-5	20		8	8.0 - 10.0 Moist, brown sandy loam with some coarse rock	ML			0.9						
S-6			10	10.0 - 13.0 Earth drill to 13 feet below ground surface. Refusal at 13 feet below ground surface.										
			12											
			14											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DaSwamp Bar	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-5R
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VO014 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 02/21/2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 25 N, R. 18 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Mike / Sam's Well Drilling
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 887.05 ft. MSL

B. Well casing, top elevation 886.78 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☒ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe NA

17. Source of water (attach analysis, if required):
NA

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top 883.78 ft. MSL or 3 ft.

I. Well bottom 873.78 ft. MSL or 13.0 ft.

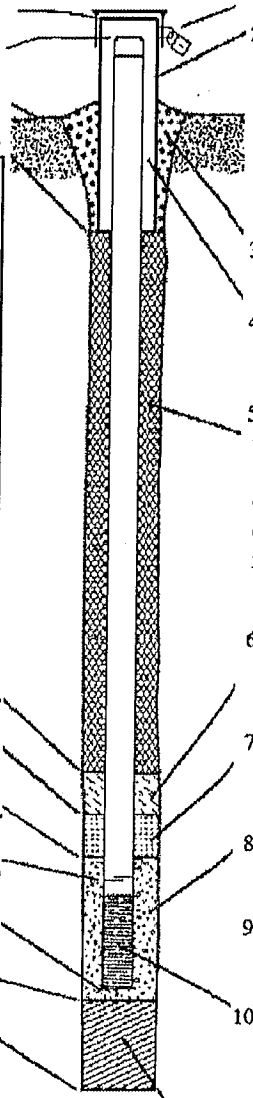
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom 873.28 ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		

Boring Drilled By; Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Mike Last Name: Firm: Sam's Well Drilling	02/21/2018	02/21/2018	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO014		MW-5R	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Shawano	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth Drill / no soil sample										
			13.5	Bottom of Boring										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Environmental Services, Inc.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp Bar	Shawano County	MW-5R

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	5 9	VO014	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well 5.__ gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 6.07 ft.	___.__ ft.
Date	b. 3/12/2018 (m m d d y y y y)	03/12/2018 (m m d d y y y y)
Time	c. 01:45 ☐ a.m. ☒ p.m.	01:55 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	__.__ inches	__.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) Strong odor	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	___.__ mg/l	___.__ mg/l
15. COD	___.__ mg/l	___.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Jordan Last Name: Kaufman
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Linda Last Name: Van Gheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Jordan Kaufman
Print Name: Jordan Kaufman
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DaSwamp Bar	Local Grid Location of Well ☐ N. _____ ft. ☐ S. ☐ E. _____ ft. ☐ W.	Well Name: PZ-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VO012 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 02/21/2018 (m m d d y y y y)
Type of Well: Well Code 12 / pz	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 25 N, R. 18 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Mike / Sam's Well Drilling
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 884.11 ft. MSL

B. Well casing, top elevation 883.24 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _____

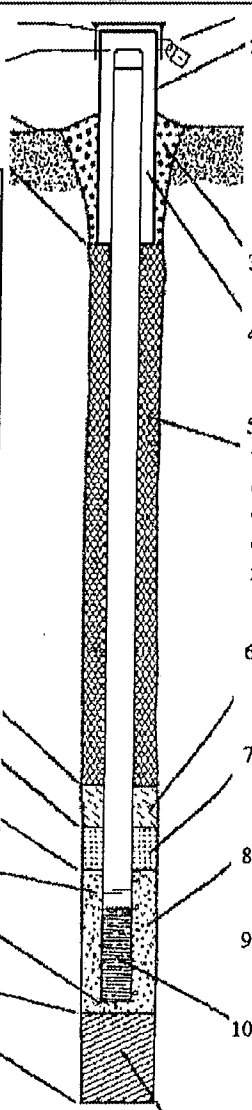
15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe N/A

17. Source of water (attach analysis, if required):

N/A



E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top 855.24 ft. MSL or 28 ft.

I. Well bottom 850.24 ft. MSL or 33 ft.

J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom 850.24 ft. MSL or 33.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.

1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		P2-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Mike Last Name: Firm: Sam's Well Drilling	02/21/2018 (m m / d d / y y y y)	02/21/2018 (m m / d d / y y y y)	- Dual Rotary

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
V0012		PZ-1	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Shawano	5 9	Maple Grove

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth Drill / no soil sample										
			14	Weathered Bedrock										
			33.5	Bottom of Boring										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Environmental Services, Inc.

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State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp Bar	Shawano County	PZ-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	59	VO012	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 15 min.

4. Depth of well (from top of well casisng) 33 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well 3.__ gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.75 ft.	___.__ ft.
Date	b. 03/12/2018 (m m d d y y y y)	03/12/2018 (m m d d y y y y)
Time	c. 11:32 ☒ a.m. ☐ p.m.	11:47 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	___.__ inches	___.__ inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15	Clear ☐ 20 Turbid ☐ 25
(Describe)	no odor	
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Jordan Last Name: Kaufman
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Linda Last Name: Van Gheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Jordan Kaufman
Print Name: Jordan Kaufman
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DaSwamp Bar	Local Grid Location of Well ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-21
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VO013 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 02/21/2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 25 N, R. 18 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Mike / Sam's Well Drilling
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation 883.80 ft. MSL

B. Well casing, top elevation 883.49 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe N/A

17. Source of water (attach analysis, if required):

N/A

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top 870.49 ft. MSL or 3 ft.

I. Well bottom 870.49 ft. MSL or 13.0 ft.

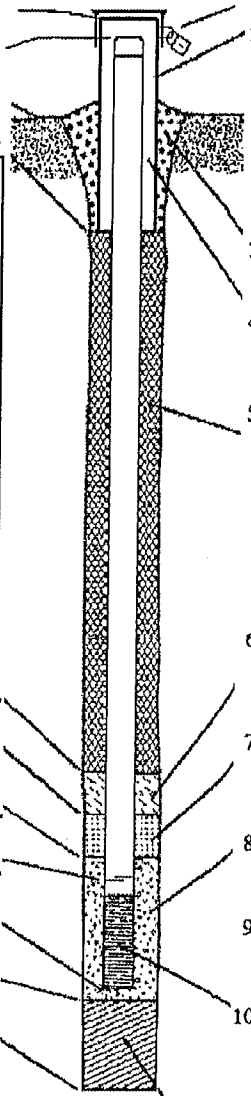
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom 869.99 ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Mike Last Name: Firm: Sam's Well Drilling	02/21/2018	02/21/2018	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO013		MW-21	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Shawano	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth Drill / no soil sample										
			13.0	Weathered Bedrock										
			13.5	Bottom of Boring										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp Bar	Shawano County	MW-21

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	59	VO013	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casisng) 13. ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well 5.__ gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 4.32 ft.	___.__ ft.
Date	b. 03/12/2018 (m m d d y y y y)	03/12/2018 (m m d d y y y y)
Time	c. 12:08 ☐ a.m. ☒ p.m.	12:10 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	___.__ inches	___.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) NO odor	Clear ☐ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Jordan Last Name: Kaufman
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Linda Last Name: Van Gheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Jordan Kaufman
Print Name: Jordan Kaufman
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: DaSwamp Bar	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-20
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VO011 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 02/21/2018 (m m d d y y y y)
Type of Well: Well Code 11 / mw	Section Location of Waste/Source: NW 1/4 of NW 1/4 of Sec. 19, T. 25 N, R. 18 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Mike / Sam's Well Drilling
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:

A. Protective pipe, top elevation 882.55 ft. MSL

B. Well casing, top elevation 882.28 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☒ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or _____ ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or _____ ft.

H. Screen joint, top 879.28 ft. MSL or 3 ft.

I. Well bottom 869.28 ft. MSL or 13.0 ft.

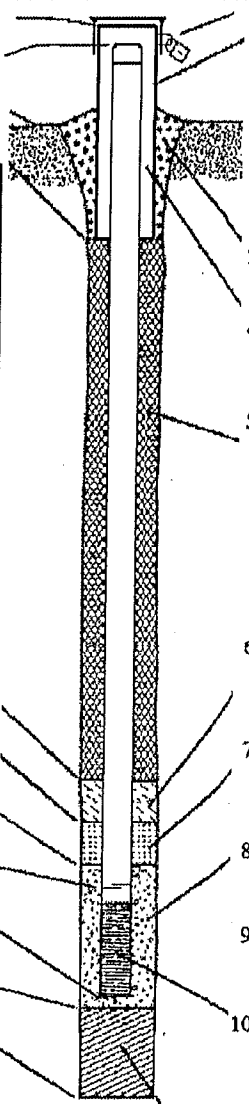
J. Filter pack, bottom _____ ft. MSL or _____ ft.

K. Borehole, bottom 868.78 ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. 1 Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Environmental Services, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Da Swamp		

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Mike Last Name: Firm: Sam's Well Drilling	02/21/2018 (m m d d y y y y)	02/21/2018 (m m d d y y y y)	hollow stem auger

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VO011		MW-20	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
SW 1/4 of SW 1/4 of Section 18, T 25 N, R 18 E

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Shawano	59	Maple Grove

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth Drill / no soil sample										
			12.5	Weathered Bedrock										
			13.5	Bottom of Boring										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
Da Swamp Bar	Shawano County	MW-20

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	59	VO011	

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☒ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 10 min.

4. Depth of well (from top of well casisng) 13. ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing ___.__ gal.

7. Volume of water removed from well 5.__ gal.

8. Volume of water added (if any) ___.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.65 ft.	___.__ ft.
Date	b. 03/12/2018 (m m d d y y y y)	03/12/2018 (m m d d y y y y)
Time	c. 12:15 ☒ a.m. ☐ p.m.	12:25 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	__.__ inches	__.__ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) no odor	Clear ☐ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Jordan Last Name: Kaufman
Firm: Endeavor Environmental Services, Inc.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Linda Last Name: Van Gheem
Facility/Firm: Da Swamp, LLC
Street: W2746 Half Mile Road
City/State/Zip: Seymour WI 54165

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Jordan Kf
Print Name: Jordan Kaufman
Firm: Endeavor Environmental Services, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX C

Soil Sample Laboratory Analytical Reports

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK
ENDEAVOR ENV. SERVICES, INC.
2280-B SALSCHEIDER CT
GREEN BAY, WI 54313

Report Date *26-Dec-13*

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277A
Sample ID GP-1 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277B
Sample ID GP-1 S-3
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.4	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	0.35 "J"	mg/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277B
Sample ID GP-1 S-3
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	100	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	104	Rec %			1	8260B		12/19/2013	CJR	1

Lab Code 5026277C
Sample ID GP-1 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277D
Sample ID GP-2 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.8	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	0.93 "J"	mg/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277D
Sample ID GP-2 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	103	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	102	Rec %			1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277E
Sample ID GP-2 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277F
Sample ID GP-3 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	71 "J"	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	89	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	158	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	550	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's										
Benzene	620	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	340	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	1780	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
Ethylbenzene	3020	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	450	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	173	ug/kg	31	98	1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277F
Sample ID GP-3 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	830	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	1600	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	175	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	26700	ug/kg	260	810	10	8260B		12/22/2013	CJR	1
1,3,5-Trimethylbenzene	9400	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	20200	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	8400	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	104	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		12/19/2013	CJR	1

Lab Code 5026277G
Sample ID GP-3 S-3
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.5	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	69	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	150	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene	259	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	1400	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	540	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	840	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	430	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277H
Sample ID GP-3 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.9	%			1	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	36 "J"	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	65 "J"	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	157	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's										
Benzene	62	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	216	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
Ethylbenzene	171	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	29.2 "J"	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP **Invoice #** E26277
Project # P101399.40

Lab Code 5026277H
Sample ID GP-3 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	470	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	121	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	2180	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	730	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	870	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	500	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	104	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	111	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		12/19/2013	CJR	1

Lab Code 5026277I
Sample ID GP-4 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.2	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	400	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	1580	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene	650	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene	1740	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	4600	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	1680	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	6800	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	2320	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277J
Sample ID GP-4 S-3
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			1	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 218	ug/kg	218	693	10	M8270D	12/16/2013	12/18/2013	MDK	1
Acenaphthylene	< 192	ug/kg	192	609	10	M8270D	12/16/2013	12/18/2013	MDK	1
Anthracene	< 195	ug/kg	195	621	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(a)anthracene	< 229	ug/kg	229	729	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(a)pyrene	< 174	ug/kg	174	553	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(b)fluoranthene	< 196	ug/kg	196	623	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(g,h,i)perylene	< 227	ug/kg	227	722	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(k)fluoranthene	< 216	ug/kg	216	688	10	M8270D	12/16/2013	12/18/2013	MDK	1
Chrysene	< 181	ug/kg	181	577	10	M8270D	12/16/2013	12/18/2013	MDK	1
Dibenzo(a,h)anthracene	< 223	ug/kg	223	710	10	M8270D	12/16/2013	12/18/2013	MDK	1
Fluoranthene	< 211	ug/kg	211	672	10	M8270D	12/16/2013	12/18/2013	MDK	1
Fluorene	< 222	ug/kg	222	706	10	M8270D	12/16/2013	12/18/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 239	ug/kg	239	761	10	M8270D	12/16/2013	12/18/2013	MDK	1
1-Methyl naphthalene	35000	ug/kg	207	658	10	M8270D	12/16/2013	12/18/2013	MDK	1
2-Methyl naphthalene	68000	ug/kg	206	654	10	M8270D	12/16/2013	12/18/2013	MDK	1
Naphthalene	68000	ug/kg	221	702	10	M8270D	12/16/2013	12/18/2013	MDK	1
Phenanthrene	330 "J"	ug/kg	224	711	10	M8270D	12/16/2013	12/18/2013	MDK	1
Pyrene	< 231	ug/kg	231	736	10	M8270D	12/16/2013	12/18/2013	MDK	1
VOC's										
Benzene	9200	ug/kg	920	2900	100	8260B		12/20/2013	CJR	1
Bromobenzene	< 1300	ug/kg	1300	4000	100	8260B		12/20/2013	CJR	1
Bromodichloromethane	< 2700	ug/kg	2700	8500	100	8260B		12/20/2013	CJR	1
Bromoform	< 3000	ug/kg	3000	9500	100	8260B		12/20/2013	CJR	1
tert-Butylbenzene	< 2000	ug/kg	2000	6400	100	8260B		12/20/2013	CJR	1
sec-Butylbenzene	22100	ug/kg	4100	13200	100	8260B		12/20/2013	CJR	1
n-Butylbenzene	134000	ug/kg	2600	8200	100	8260B		12/20/2013	CJR	1
Carbon Tetrachloride	< 2500	ug/kg	2500	7900	100	8260B		12/20/2013	CJR	1
Chlorobenzene	< 1600	ug/kg	1600	5200	100	8260B		12/20/2013	CJR	1
Chloroethane	< 4200	ug/kg	4200	13300	100	8260B		12/20/2013	CJR	23
Chloroform	< 4900	ug/kg	4900	15700	100	8260B		12/20/2013	CJR	1
Chloromethane	< 18100	ug/kg	18100	57700	100	8260B		12/20/2013	CJR	1
2-Chlorotoluene	< 1600	ug/kg	1600	5200	100	8260B		12/20/2013	CJR	1
4-Chlorotoluene	< 1400	ug/kg	1400	4300	100	8260B		12/20/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 4800	ug/kg	4800	15400	100	8260B		12/20/2013	CJR	1
Dibromochloromethane	< 1400	ug/kg	1400	4500	100	8260B		12/20/2013	CJR	1
1,4-Dichlorobenzene	< 3300	ug/kg	3300	10300	100	8260B		12/20/2013	CJR	1
1,3-Dichlorobenzene	< 3000	ug/kg	3000	9500	100	8260B		12/20/2013	CJR	1
1,2-Dichlorobenzene	< 3800	ug/kg	3800	12200	100	8260B		12/20/2013	CJR	1
Dichlorodifluoromethane	< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	CJR	1
1,2-Dichloroethane	< 3600	ug/kg	3600	11400	100	8260B		12/20/2013	CJR	1
1,1-Dichloroethane	< 1900	ug/kg	1900	6000	100	8260B		12/20/2013	CJR	1
1,1-Dichloroethene	< 2100	ug/kg	2100	6600	100	8260B		12/20/2013	CJR	1
cis-1,2-Dichloroethene	< 2400	ug/kg	2400	7700	100	8260B		12/20/2013	CJR	1
trans-1,2-Dichloroethene	< 2900	ug/kg	2900	9300	100	8260B		12/20/2013	CJR	1
1,2-Dichloropropane	< 950	ug/kg	950	3000	100	8260B		12/20/2013	CJR	1
2,2-Dichloropropane	< 4600	ug/kg	4600	14800	100	8260B		12/20/2013	CJR	1
1,3-Dichloropropane	< 2100	ug/kg	2100	6800	100	8260B		12/20/2013	CJR	1
Di-isopropyl ether	< 1100	ug/kg	1100	3400	100	8260B		12/20/2013	CJR	1
EDB (1,2-Dibromoethane)	< 2000	ug/kg	2000	6400	100	8260B		12/20/2013	CJR	1
Ethylbenzene	180000	ug/kg	1000	3300	100	8260B		12/20/2013	CJR	1
Hexachlorobutadiene	< 9500	ug/kg	9500	30400	100	8260B		12/20/2013	CJR	1
Isopropylbenzene	25000	ug/kg	2500	8000	100	8260B		12/20/2013	CJR	1
p-Isopropyltoluene	10100	ug/kg	3100	9800	100	8260B		12/20/2013	CJR	1

Project Name DA SWAMP **Invoice #** E26277
Project # P101399.40

Lab Code 5026277J
Sample ID GP-4 S-3
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		12/20/2013	CJR	1
Naphthalene	148000	ug/kg	11400	36300	100	8260B		12/20/2013	CJR	23
n-Propylbenzene	124000	ug/kg	2400	7500	100	8260B		12/20/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		12/20/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Tetrachloroethene	< 4900	ug/kg	4900	15700	100	8260B		12/20/2013	CJR	1
Toluene	163000	ug/kg	2000	6500	100	8260B		12/20/2013	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		12/20/2013	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		12/20/2013	CJR	23
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		12/20/2013	CJR	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Trichloroethene (TCE)	< 2800	ug/kg	2800	8800	100	8260B		12/20/2013	CJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		12/20/2013	CJR	1
1,2,4-Trimethylbenzene	810000	ug/kg	2600	8100	100	8260B		12/20/2013	CJR	1
1,3,5-Trimethylbenzene	263000	ug/kg	2600	8400	100	8260B		12/20/2013	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		12/20/2013	CJR	1
m&p-Xylene	740000	ug/kg	6800	21600	100	8260B		12/20/2013	CJR	1
o-Xylene	263000	ug/kg	3100	9800	100	8260B		12/20/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	84	REC %			100	8260B		12/20/2013	CJR	1
SUR - Toluene-d8	106	Rec %			100	8260B		12/20/2013	CJR	1
SUR - 4-Bromofluorobenzene	116	Rec %			100	8260B		12/20/2013	CJR	1
SUR - Dibromofluoromethane	98	Rec %			100	8260B		12/20/2013	CJR	1

Lab Code 5026277K
Sample ID GP-4 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	4400	ug/kg	79	250	10	GRO95/8021		12/19/2013	CJR	1
Ethylbenzene	32000	ug/kg	77	250	10	GRO95/8021		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		12/19/2013	CJR	1
Naphthalene	16500	ug/kg	220	700	10	GRO95/8021		12/19/2013	CJR	1
Toluene	34000	ug/kg	84	270	10	GRO95/8021		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	83000	ug/kg	100	330	10	GRO95/8021		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	32000	ug/kg	93	300	10	GRO95/8021		12/19/2013	CJR	1
m&p-Xylene	121000	ug/kg	160	500	10	GRO95/8021		12/19/2013	CJR	1
o-Xylene	41000	ug/kg	100	320	10	GRO95/8021		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277L
Sample ID GP-5 S-1
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.8	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	50000	ug/kg	79	250	10	GRO95/8021		12/19/2013	CJR	1
Ethylbenzene	95000	ug/kg	77	250	10	GRO95/8021		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		12/19/2013	CJR	1
Naphthalene	32000	ug/kg	220	700	10	GRO95/8021		12/19/2013	CJR	1
Toluene	283000	ug/kg	84	270	10	GRO95/8021		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	191000	ug/kg	100	330	10	GRO95/8021		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	76000	ug/kg	93	300	10	GRO95/8021		12/19/2013	CJR	1
m&p-Xylene	316000	ug/kg	160	500	10	GRO95/8021		12/19/2013	CJR	1
o-Xylene	109000	ug/kg	100	320	10	GRO95/8021		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277M
Sample ID GP-5 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.3	%			1	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 436	ug/kg	436	1386	20	M8270D	12/16/2013	12/18/2013	MDK	1
Acenaphthylene	< 384	ug/kg	384	1218	20	M8270D	12/16/2013	12/18/2013	MDK	1
Anthracene	< 390	ug/kg	390	1242	20	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(a)anthracene	< 458	ug/kg	458	1458	20	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(a)pyrene	< 348	ug/kg	348	1106	20	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(b)fluoranthene	< 392	ug/kg	392	1246	20	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(g,h,i)perylene	< 454	ug/kg	454	1444	20	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(k)fluoranthene	< 432	ug/kg	432	1376	20	M8270D	12/16/2013	12/18/2013	MDK	1
Chrysene	< 362	ug/kg	362	1154	20	M8270D	12/16/2013	12/18/2013	MDK	1
Dibenzo(a,h)anthracene	< 446	ug/kg	446	1420	20	M8270D	12/16/2013	12/18/2013	MDK	1
Fluoranthene	< 422	ug/kg	422	1344	20	M8270D	12/16/2013	12/18/2013	MDK	1
Fluorene	< 444	ug/kg	444	1412	20	M8270D	12/16/2013	12/18/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 478	ug/kg	478	1522	20	M8270D	12/16/2013	12/18/2013	MDK	1
1-Methyl naphthalene	19600	ug/kg	414	1316	20	M8270D	12/16/2013	12/18/2013	MDK	1
2-Methyl naphthalene	34000	ug/kg	412	1308	20	M8270D	12/16/2013	12/18/2013	MDK	1
Naphthalene	30700	ug/kg	442	1404	20	M8270D	12/16/2013	12/18/2013	MDK	1
Phenanthrene	< 448	ug/kg	448	1422	20	M8270D	12/16/2013	12/18/2013	MDK	1
Pyrene	< 462	ug/kg	462	1472	20	M8270D	12/16/2013	12/18/2013	MDK	1
VOC's										
Benzene	88000	ug/kg	920	2900	100	8260B		12/20/2013	CJR	1
Bromobenzene	< 1300	ug/kg	1300	4000	100	8260B		12/20/2013	CJR	1
Bromodichloromethane	< 2700	ug/kg	2700	8500	100	8260B		12/20/2013	CJR	1
Bromoform	< 3000	ug/kg	3000	9500	100	8260B		12/20/2013	CJR	1
tert-Butylbenzene	< 2000	ug/kg	2000	6400	100	8260B		12/20/2013	CJR	1
sec-Butylbenzene	11200 "J"	ug/kg	4100	13200	100	8260B		12/20/2013	CJR	1
n-Butylbenzene	68000	ug/kg	2600	8200	100	8260B		12/20/2013	CJR	1
Carbon Tetrachloride	< 2500	ug/kg	2500	7900	100	8260B		12/20/2013	CJR	1
Chlorobenzene	< 1600	ug/kg	1600	5200	100	8260B		12/20/2013	CJR	1
Chloroethane	< 4200	ug/kg	4200	13300	100	8260B		12/20/2013	CJR	23
Chloroform	< 4900	ug/kg	4900	15700	100	8260B		12/20/2013	CJR	1
Chloromethane	< 18100	ug/kg	18100	57700	100	8260B		12/20/2013	CJR	1
2-Chlorotoluene	< 1600	ug/kg	1600	5200	100	8260B		12/20/2013	CJR	1
4-Chlorotoluene	< 1400	ug/kg	1400	4300	100	8260B		12/20/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 4800	ug/kg	4800	15400	100	8260B		12/20/2013	CJR	1
Dibromochloromethane	< 1400	ug/kg	1400	4500	100	8260B		12/20/2013	CJR	1
1,4-Dichlorobenzene	< 3300	ug/kg	3300	10300	100	8260B		12/20/2013	CJR	1
1,3-Dichlorobenzene	< 3000	ug/kg	3000	9500	100	8260B		12/20/2013	CJR	1
1,2-Dichlorobenzene	< 3800	ug/kg	3800	12200	100	8260B		12/20/2013	CJR	1
Dichlorodifluoromethane	< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	CJR	1
1,2-Dichloroethane	< 3600	ug/kg	3600	11400	100	8260B		12/20/2013	CJR	1
1,1-Dichloroethane	< 1900	ug/kg	1900	6000	100	8260B		12/20/2013	CJR	1
1,1-Dichloroethene	< 2100	ug/kg	2100	6600	100	8260B		12/20/2013	CJR	1
cis-1,2-Dichloroethene	< 2400	ug/kg	2400	7700	100	8260B		12/20/2013	CJR	1
trans-1,2-Dichloroethene	< 2900	ug/kg	2900	9300	100	8260B		12/20/2013	CJR	1
1,2-Dichloropropane	< 950	ug/kg	950	3000	100	8260B		12/20/2013	CJR	1
2,2-Dichloropropane	< 4600	ug/kg	4600	14800	100	8260B		12/20/2013	CJR	1
1,3-Dichloropropane	< 2100	ug/kg	2100	6800	100	8260B		12/20/2013	CJR	1
Di-isopropyl ether	< 1100	ug/kg	1100	3400	100	8260B		12/20/2013	CJR	1
EDB (1,2-Dibromoethane)	< 2000	ug/kg	2000	6400	100	8260B		12/20/2013	CJR	1
Ethylbenzene	265000	ug/kg	1000	3300	100	8260B		12/20/2013	CJR	1
Hexachlorobutadiene	< 9500	ug/kg	9500	30400	100	8260B		12/20/2013	CJR	1
Isopropylbenzene	21300	ug/kg	2500	8000	100	8260B		12/20/2013	CJR	1
p-Isopropyltoluene	5700 "J"	ug/kg	3100	9800	100	8260B		12/20/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277M
Sample ID GP-5 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		12/20/2013	CJR	1
Naphthalene	119000	ug/kg	11400	36300	100	8260B		12/20/2013	CJR	23
n-Propylbenzene	92000	ug/kg	2400	7500	100	8260B		12/20/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		12/20/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Tetrachloroethene	< 4900	ug/kg	4900	15700	100	8260B		12/20/2013	CJR	1
Toluene	890000	ug/kg	2000	6500	100	8260B		12/20/2013	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		12/20/2013	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		12/20/2013	CJR	23
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		12/20/2013	CJR	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Trichloroethene (TCE)	< 2800	ug/kg	2800	8800	100	8260B		12/20/2013	CJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		12/20/2013	CJR	1
1,2,4-Trimethylbenzene	590000	ug/kg	2600	8100	100	8260B		12/20/2013	CJR	1
1,3,5-Trimethylbenzene	179000	ug/kg	2600	8400	100	8260B		12/20/2013	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		12/20/2013	CJR	1
m&p-Xylene	940000	ug/kg	6800	21600	100	8260B		12/20/2013	CJR	1
o-Xylene	360000	ug/kg	3100	9800	100	8260B		12/20/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			100	8260B		12/20/2013	CJR	1
SUR - Toluene-d8	104	Rec %			100	8260B		12/20/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			100	8260B		12/20/2013	CJR	1
SUR - Dibromofluoromethane	98	Rec %			100	8260B		12/20/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277N
Sample ID GP-5 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.5	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	0.79 "J"	mg/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	3800	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	7200	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	6700	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	43 "J"	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
PVOC										
Benzene	18400	ug/kg	79	250	10	GRO95/8021		12/19/2013	CJR	1
Ethylbenzene	24600	ug/kg	77	250	10	GRO95/8021		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		12/19/2013	CJR	1
Toluene	93000	ug/kg	84	270	10	GRO95/8021		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	51000	ug/kg	100	330	10	GRO95/8021		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	19500	ug/kg	93	300	10	GRO95/8021		12/19/2013	CJR	1
m&p-Xylene	84000	ug/kg	160	500	10	GRO95/8021		12/19/2013	CJR	1
o-Xylene	28600	ug/kg	100	320	10	GRO95/8021		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 50262770
Sample ID GP-6 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	2.5	mg/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	25.5 "J"	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/22/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		12/22/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/22/2013	CJR	1
Toluene	45	ug/kg	8.4	27	1	GRO95/8021		12/22/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/22/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/22/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/22/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/22/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277P
Sample ID GP-6 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.6	%			1	5021		12/16/2013	MDK	1
Organic										
VOC's										
Benzene	17.6 "J"	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	66 "J"	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
Ethylbenzene	19.4 "J"	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	570	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	35 "J"	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	72	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	157	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	61 "J"	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277P
Sample ID GP-6 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	109	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	110	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		12/19/2013	CJR	1

Lab Code 5026277Q
Sample ID GP-6 S-5
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.2	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	152	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	450	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene	500	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene	178	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	1680	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	690	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	870	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	295	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277R
Sample ID GP-7 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.6	%			1	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		12/22/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/22/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/22/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/22/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/22/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/22/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		12/22/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/22/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/22/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/22/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/22/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/22/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/22/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/22/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/22/2013	CJR	2
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/22/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/22/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/22/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/22/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/22/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/22/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/22/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/22/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/22/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/22/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/22/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/22/2013	CJR	7
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/22/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/22/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/22/2013	CJR	1
Ethylbenzene	12.7 "J"	ug/kg	10	33	1	8260B		12/22/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/22/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		12/22/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/22/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277R
Sample ID GP-7 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/22/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/22/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/22/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/22/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/22/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/22/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/22/2013	CJR	1
Toluene	< 20	ug/kg	20	65	1	8260B		12/22/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/22/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/22/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/22/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/22/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/22/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/22/2013	CJR	1
1,2,4-Trimethylbenzene	57 "J"	ug/kg	26	81	1	8260B		12/22/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/22/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/22/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/22/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/22/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			1	8260B		12/22/2013	CJR	1
SUR - 4-Bromofluorobenzene	111	Rec %			1	8260B		12/22/2013	CJR	1
SUR - Dibromofluoromethane	100	Rec %			1	8260B		12/22/2013	CJR	1
SUR - Toluene-d8	109	Rec %			1	8260B		12/22/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277S
Sample ID GP-7 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.3	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	< 0.3	mg/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	860	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	1310	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	1420	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
PVOC										
Benzene	1100	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	2990	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Toluene	2480	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	8400	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	3500	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	11000	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	3600	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277T
Sample ID GP-8 S-2
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.0	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/22/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		12/22/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/22/2013	CJR	1
Naphthalene	57 "J"	ug/kg	22	70	1	GRO95/8021		12/22/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		12/22/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/22/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/22/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/22/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/22/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277U
Sample ID GP-8 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.3	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	< 0.3	mg/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277U
Sample ID GP-8 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	107	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		12/19/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26277

Lab Code 5026277V
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 9.2	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene	< 26	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachloride	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
Chloroethane	< 42	ug/kg	42	133	1	8260B		12/19/2013	CJR	1
Chloroform	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	1
Chloromethane	< 181	ug/kg	181	577	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	16	52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochloromethane	< 14	ug/kg	14	45	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	< 33	ug/kg	33	103	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 30	ug/kg	30	95	1	8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene	< 38	ug/kg	38	122	1	8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46	148	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropane	< 21	ug/kg	21	68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether	< 11	ug/kg	11	34	1	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/19/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	97	Rec %			1	8260B		12/19/2013	CJR	1

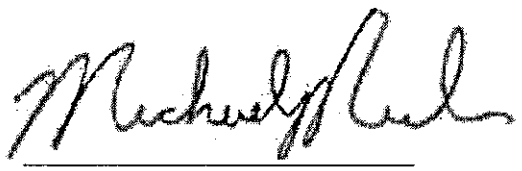
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
7	The LCS not within established limits.
23	Area percent recovery less than 50%.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF ( )TODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # Nº 268(

Page 1 of 3

Sample Handling Request
_____ Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)
X Normal Turn Around 7 business days

Lab I.D. #

Account No. : | Quote No.:

Project #: P101399.40

Sampler: (signature)

Project (Name / Location): Da Savanna

Reports To: Joseph Ramchek	Invoice To: Same as "Report To"
Company Endeavor Env. Services Inc.	Company
Address 2280-B Saltsheider Ct	Address
City State Zip Green Bay, WI 54313	City State Zip
Phone 920-437-2997	Phone
FAX 920-437-3066	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS							PID/FID
So26279A	GP-1 S-2	12/4/13	1037		X	N	2	S	MeOH/None								X												0
B	GP-1 S-3		1040				3					X			X						X								0
C	GP-1 S-4		1043				2										X												0
D	GP-2 S-2		1053				3					X			X						X								0
E	GP-2 S-4		1056				3								X	X													0
F	GP-3 S-2		1108				3								X						X								131
G	GP-3 S-3		1110				2										X												31
H	GP-3 S-4		1114				3								X						X								17
I	GP-4 S-2		1138				2										X												297
J	GP-4 S-3		1145				3								X						X								>1000

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PECFA 4-'C rules

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Courier
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: ___ Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1615	12/13/13			

Received in Labratory By: Time: 1615 Date: 12/13/13

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 268(

Page 2 of 3

Sample Handling Request

___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around 7 business days

Lab I.D. #:

Account No.: | Quote No.:

Project #: P101399.40

Sampler: (signature) [signature]

Project (Name / Location): De Snyers

Reports To: Joseph Ramcheck | Invoice To: Same as "Report To"

Company: Endeavor Env. Services Inc. | Company:

Address: 2280-B Sobschneider Ct | Address:

City State Zip: Green Bay, WI 54313 | City State Zip:

Phone: 920-437-2997 | Phone:

FAX: 920-437-3066 | FAX:

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	Other Analysis	PID/FID
5026277K	GP-4 S-4	12/12/13	1148		X	N	2	S	MeOH/None								X							>1000
L	GP-5 S-1	↓	1205		↓	↓	2										X							>1000
M	GP-5 S-2		1208				3								X						X			>1000
N	GP-5 S-4		1218				3					X			X	X								>1000
O	GP-6 S-2		1242				3					X			X	X								16.5
P	GP-6 S-4		1252				2														X		[illegible]	16.8
Q	GP-6 S-5		1255				2										X							79
R	GP-7 S-2		1321				3								X						X			21.4
S	GP-7 S-4		1323				3					X			X	X								487
T	GP-8 S-2	↓	1332		↓	↓	2										X							1.1

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PECFA U-C Rates

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Client

Temp. of Temp. Blank ___ °C On Ice: X

Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	1615	12/13/13			

Received in Laboratory By: [signature] Time: 16:15 Date: 12/13/13

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 268(

Page 3 of 3

Sample Handling Request

____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around 7 business days

Lab I.D. #	
Account No. :	Quote No.:
Project #: P10899.40	
Sampler: (signature) [signature]	
Project (Name / Location): Du Swamp	
Reports To: Joseph Ramcheck	Invoice To: Same as "Report To"
Company Endeavor Env. Services Inc	Company
Address 2280-B Schneider Ct	Address
City State Zip Green Bay, WI 54313	City State Zip
Phone 920-437-2997	Phone
FAX 920-437-3066	FAX

Analysis Requested / **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
50262774	GP-FS-4	12/12/13	1350		X	N	3	S	MeOH/None			X			X						X		359
↓	MeOH Blank	↓	—		X	N	1	MeOH	MeOH												X		—

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PECFA U'C Rates

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Client
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	1615	12/13/13			

Received in Laboratory By: [signature] Time: 1615 Date: 12/13/13

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK
ENDEAVOR ENV. SERVICES, INC.
2280-B SALSCHEIDER CT
GREEN BAY, WI 54313

Report Date *09-Jan-14*

Project Name DA SWAMP
Project # P101399.40

Invoice # E26354

Lab Code 5026354A
Sample ID MW-1, S-4
Sample Matrix Soil
Sample Date 12/20/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	93.6	%			1	5021		12/26/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/3/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/3/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/3/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/3/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/3/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/3/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/3/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/3/2014	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26354

Lab Code 5026354B
Sample ID MW-2, S-2
Sample Matrix Soil
Sample Date 12/20/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			1	5021		12/26/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	26.7 "J"	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)pyrene	21 "J"	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene	23.6 "J"	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene	105	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene	30.7 "J"	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene	22.5 "J"	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene	31.2 "J"	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/4/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/4/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/4/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/4/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/4/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/4/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/4/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/4/2014	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26354

Lab Code 5026354C
Sample ID MW-2, S-4
Sample Matrix Soil
Sample Date 12/20/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.3	%			1	5021		12/26/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/4/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/4/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/4/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/4/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/4/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/4/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/4/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/4/2014	CJR	1

Lab Code 5026354D
Sample ID TB-4, S-2
Sample Matrix Soil
Sample Date 12/20/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.5	%			1	5021		12/26/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/8/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/8/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		1/8/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/8/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/8/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/8/2014	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26354

Lab Code 5026354E
Sample ID TB-4, S-4
Sample Matrix Soil
Sample Date 12/20/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		12/26/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/8/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/8/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/8/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/8/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/8/2014	CJR	1

Lab Code 5026354F
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 12/20/2013

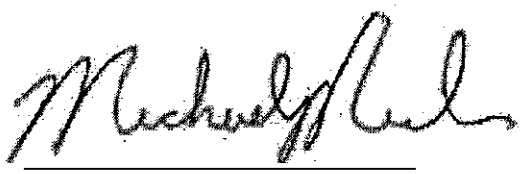
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/8/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/8/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		1/8/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/8/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/8/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/8/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/8/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/8/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 308

Page 1 of 1

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #: PO1399.40

Sampler: (signature)

Project (Name / Location): Da Swamp

Reports To: Joseph Ramchuck	Invoice To: Same as "Report To"
Company: Endeavor Env. Services, LLC	Company
Address: 2280-B Scheider Ct	Address
City State Zip: Green Bay WI 54313	City State Zip
Phone: 920-437-2997	Phone
FAX: 920-437-3066	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
502354A	MW-1, S-4	12/20/13	0915		X	N	3	S	MeOH/Bmc						X	X						
B	MW-2, S-2		1100												X	X						
C	MW-2, S-4		1112												X	X						
D	TB-4, S-2		1145				2										X					
E	TB-4, S-4		1420				3								X	X						
F	MeOH Blank	↓	—		↓	↓	1	MeOH	MeOH								X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PCFA w/ C rates

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Client
Temp. of Temp. Blank: ___ °C On Ice: Y
Cooler seal intact upon receipt: Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1100	12/23/13	Craig Eckstein	1000	12/23/13
Craig Eckstein	1036	12/23/13			

Received in Laboratory By: Time: 10:36 Date: 12-23-13

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX D

Groundwater Sample Laboratory Analytical Reports

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK
ENDEAVOR ENV. SERVICES, INC.
2280-B SALSCHEIDER CT
GREEN BAY, WI 54313

Report Date *26-Dec-13*

Project Name DA SWAMP
Project # P101399.40

Invoice # E26276

Lab Code 5026276A
Sample ID GP-3
Sample Matrix water
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.028 "J"	ug/l	0.021	0.068	1	M8270D	12/18/2013	12/19/2013	MDK	1
Acenaphthylene	< 0.02	ug/l	0.02	0.063	1	M8270D	12/18/2013	12/19/2013	MDK	1
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(a)anthracene	< 0.025	ug/l	0.025	0.078	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(a)pyrene	< 0.018	ug/l	0.018	0.058	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(b)fluoranthene	< 0.02	ug/l	0.02	0.063	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(g,h,i)perylene	< 0.023	ug/l	0.023	0.075	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(k)fluoranthene	< 0.027	ug/l	0.027	0.087	1	M8270D	12/18/2013	12/19/2013	MDK	1
Chrysene	< 0.018	ug/l	0.018	0.058	1	M8270D	12/18/2013	12/19/2013	MDK	1
Dibenzo(a,h)anthracene	< 0.023	ug/l	0.023	0.072	1	M8270D	12/18/2013	12/19/2013	MDK	1
Fluoranthene	< 0.026	ug/l	0.026	0.084	1	M8270D	12/18/2013	12/19/2013	MDK	1
Fluorene	0.036 "J"	ug/l	0.02	0.063	1	M8270D	12/18/2013	12/19/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.027	ug/l	0.027	0.085	1	M8270D	12/18/2013	12/19/2013	MDK	1
1-Methyl naphthalene	0.45	ug/l	0.019	0.061	1	M8270D	12/18/2013	12/19/2013	MDK	1
2-Methyl naphthalene	0.52	ug/l	0.016	0.052	1	M8270D	12/18/2013	12/19/2013	MDK	1
Naphthalene	2.58	ug/l	0.023	0.075	1	M8270D	12/18/2013	12/19/2013	MDK	1
Phenanthrene	0.114	ug/l	0.018	0.059	1	M8270D	12/18/2013	12/19/2013	MDK	1
Pyrene	< 0.025	ug/l	0.025	0.08	1	M8270D	12/18/2013	12/19/2013	MDK	1
VOC's										
Benzene	5.0	ug/l	0.24	0.77	1	8260B		12/18/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/18/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/18/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/18/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/18/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/18/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/18/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26276

Lab Code 5026276A
Sample ID GP-3
Sample Matrix water
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/18/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/18/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/18/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/18/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/18/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/18/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/18/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/18/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/18/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/18/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/18/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/18/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/18/2013	CJR	1
Ethylbenzene	4.4	ug/l	0.55	1.7	1	8260B		12/18/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/18/2013	CJR	1
Isopropylbenzene	5.3	ug/l	0.3	0.96	1	8260B		12/18/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/18/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/18/2013	CJR	1
Naphthalene	4.1 "J"	ug/l	1.7	5.5	1	8260B		12/18/2013	CJR	1
n-Propylbenzene	11.2	ug/l	0.25	0.81	1	8260B		12/18/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Toluene	0.92 "J"	ug/l	0.69	2.2	1	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/18/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/18/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	11	ug/l	2.2	6.9	1	8260B		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/18/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/18/2013	CJR	1
m&p-Xylene	4.2	ug/l	0.69	2.2	1	8260B		12/18/2013	CJR	1
o-Xylene	3.5	ug/l	0.63	2	1	8260B		12/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		12/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		12/18/2013	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		12/18/2013	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26276

Lab Code 5026276B
Sample ID GP-5
Sample Matrix water
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 10.5	ug/l	10.5	34	500	M8270D	12/18/2013	12/21/2013	MDK	1
Acenaphthylene	< 10	ug/l	10	31.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Anthracene	< 10	ug/l	10	32	500	M8270D	12/18/2013	12/21/2013	MDK	1
Benzo(a)anthracene	< 12.5	ug/l	12.5	39	500	M8270D	12/18/2013	12/21/2013	MDK	1
Benzo(a)pyrene	< 9	ug/l	9	29	500	M8270D	12/18/2013	12/21/2013	MDK	1
Benzo(b)fluoranthene	< 10	ug/l	10	31.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Benzo(g,h,i)perylene	< 11.5	ug/l	11.5	37.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Benzo(k)fluoranthene	< 13.5	ug/l	13.5	43.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Chrysene	< 9	ug/l	9	29	500	M8270D	12/18/2013	12/21/2013	MDK	1
Dibenzo(a,h)anthracene	< 11.5	ug/l	11.5	36	500	M8270D	12/18/2013	12/21/2013	MDK	1
Fluoranthene	< 13	ug/l	13	42	500	M8270D	12/18/2013	12/21/2013	MDK	1
Fluorene	< 10	ug/l	10	31.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Indeno(1,2,3-od)pyrene	< 13.5	ug/l	13.5	42.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
1-Methyl naphthalene	940	ug/l	9.5	30.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
2-Methyl naphthalene	1680	ug/l	8	26	500	M8270D	12/18/2013	12/21/2013	MDK	1
Naphthalene	1990	ug/l	11.5	37.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Phenanthrene	< 9	ug/l	9	29.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Pyrene	< 12.5	ug/l	12.5	40	500	M8270D	12/18/2013	12/21/2013	MDK	1
VOC's										
Benzene	10900	ug/l	48	154	200	8260B		12/18/2013	CJR	1
Bromobenzene	< 64	ug/l	64	200	200	8260B		12/18/2013	CJR	1
Bromodichloromethane	< 74	ug/l	74	240	200	8260B		12/18/2013	CJR	1
Bromoform	< 70	ug/l	70	220	200	8260B		12/18/2013	CJR	1
tert-Butylbenzene	< 72	ug/l	72	240	200	8260B		12/18/2013	CJR	1
sec-Butylbenzene	< 66	ug/l	66	200	200	8260B		12/18/2013	CJR	1
n-Butylbenzene	82 "J"	ug/l	70	220	200	8260B		12/18/2013	CJR	1
Carbon Tetrachloride	< 66	ug/l	66	220	200	8260B		12/18/2013	CJR	1
Chlorobenzene	< 48	ug/l	48	154	200	8260B		12/18/2013	CJR	1
Chloroethane	< 126	ug/l	126	400	200	8260B		12/18/2013	CJR	1
Chloroform	< 56	ug/l	56	176	200	8260B		12/18/2013	CJR	1
Chloromethane	< 162	ug/l	162	520	200	8260B		12/18/2013	CJR	1
2-Chlorotoluene	< 42	ug/l	42	132	200	8260B		12/18/2013	CJR	1
4-Chlorotoluene	< 42	ug/l	42	136	200	8260B		12/18/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 176	ug/l	176	560	200	8260B		12/18/2013	CJR	1
Dibromochloromethane	< 44	ug/l	44	140	200	8260B		12/18/2013	CJR	1
1,4-Dichlorobenzene	< 60	ug/l	60	192	200	8260B		12/18/2013	CJR	1
1,3-Dichlorobenzene	< 56	ug/l	56	178	200	8260B		12/18/2013	CJR	1
1,2-Dichlorobenzene	< 72	ug/l	72	240	200	8260B		12/18/2013	CJR	1
Dichlorodifluoromethane	< 88	ug/l	88	280	200	8260B		12/18/2013	CJR	1
1,2-Dichloroethane	< 82	ug/l	82	260	200	8260B		12/18/2013	CJR	1
1,1-Dichloroethane	< 60	ug/l	60	194	200	8260B		12/18/2013	CJR	1
1,1-Dichloroethene	< 80	ug/l	80	260	200	8260B		12/18/2013	CJR	1
cis-1,2-Dichloroethene	< 76	ug/l	76	240	200	8260B		12/18/2013	CJR	1
trans-1,2-Dichloroethene	< 70	ug/l	70	220	200	8260B		12/18/2013	CJR	1
1,2-Dichloropropane	< 64	ug/l	64	200	200	8260B		12/18/2013	CJR	1
2,2-Dichloropropane	< 72	ug/l	72	240	200	8260B		12/18/2013	CJR	4 8
1,3-Dichloropropane	< 66	ug/l	66	200	200	8260B		12/18/2013	CJR	1
Di-isopropyl ether	< 46	ug/l	46	146	200	8260B		12/18/2013	CJR	1
EDB (1,2-Dibromoethane)	< 88	ug/l	88	280	200	8260B		12/18/2013	CJR	1
Ethylbenzene	3800	ug/l	110	340	200	8260B		12/18/2013	CJR	1
Hexachlorobutadiene	< 300	ug/l	300	960	200	8260B		12/18/2013	CJR	1
Isopropylbenzene	98 "J"	ug/l	60	192	200	8260B		12/18/2013	CJR	1
p-Isopropyltoluene	< 62	ug/l	62	196	200	8260B		12/18/2013	CJR	1
Methylene chloride	< 100	ug/l	100	320	200	8260B		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 46	ug/l	46	148	200	8260B		12/18/2013	CJR	1
Naphthalene	1120	ug/l	340	1100	200	8260B		12/18/2013	CJR	1
n-Propylbenzene	320	ug/l	50	162	200	8260B		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26276

Lab Code 5026276B
Sample ID GP-5
Sample Matrix water
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 90	ug/l	90	280	200	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 66	ug/l	66	220	200	8260B		12/18/2013	CJR	1
Tetrachloroethene	< 66	ug/l	66	220	200	8260B		12/18/2013	CJR	1
Toluene	43000	ug/l	138	440	200	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 196	ug/l	196	620	200	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 360	ug/l	360	1160	200	8260B		12/18/2013	CJR	1
1,1,1-Trichloroethane	< 66	ug/l	66	200	200	8260B		12/18/2013	CJR	1
1,1,2-Trichloroethane	< 68	ug/l	68	220	200	8260B		12/18/2013	CJR	1
Trichloroethene (TCE)	< 66	ug/l	66	200	200	8260B		12/18/2013	CJR	1
Trichlorofluoromethane	< 142	ug/l	142	460	200	8260B		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	2530	ug/l	440	1380	200	8260B		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	650 "J"	ug/l	280	900	200	8260B		12/18/2013	CJR	1
Vinyl Chloride	< 36	ug/l	36	114	200	8260B		12/18/2013	CJR	1
m&p-Xylene	11500	ug/l	138	440	200	8260B		12/18/2013	CJR	1
o-Xylene	5200	ug/l	126	400	200	8260B		12/18/2013	CJR	1
SUR - Dibromofluoromethane	99	REC %			200	8260B		12/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			200	8260B		12/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			200	8260B		12/18/2013	CJR	1
SUR - Toluene-d8	101	REC %			200	8260B		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26276

Lab Code 5026276C
Sample ID GP-6
Sample Matrix water
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	86	ug/l	2.4	7.7	10	8260B		12/18/2013	CJR	1
Bromobenzene	< 3.2	ug/l	3.2	10	10	8260B		12/18/2013	CJR	1
Bromodichloromethane	< 3.7	ug/l	3.7	12	10	8260B		12/18/2013	CJR	1
Bromoform	< 3.5	ug/l	3.5	11	10	8260B		12/18/2013	CJR	1
tert-Butylbenzene	< 3.6	ug/l	3.6	12	10	8260B		12/18/2013	CJR	1
sec-Butylbenzene	13.6	ug/l	3.3	10	10	8260B		12/18/2013	CJR	1
n-Butylbenzene	65	ug/l	3.5	11	10	8260B		12/18/2013	CJR	1
Carbon Tetrachloride	< 3.3	ug/l	3.3	11	10	8260B		12/18/2013	CJR	1
Chlorobenzene	< 2.4	ug/l	2.4	7.7	10	8260B		12/18/2013	CJR	1
Chloroethane	< 6.3	ug/l	6.3	20	10	8260B		12/18/2013	CJR	1
Chloroform	< 2.8	ug/l	2.8	8.8	10	8260B		12/18/2013	CJR	1
Chloromethane	< 8.1	ug/l	8.1	26	10	8260B		12/18/2013	CJR	1
2-Chlorotoluene	< 2.1	ug/l	2.1	6.6	10	8260B		12/18/2013	CJR	1
4-Chlorotoluene	< 2.1	ug/l	2.1	6.8	10	8260B		12/18/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 8.8	ug/l	8.8	28	10	8260B		12/18/2013	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	7	10	8260B		12/18/2013	CJR	1
1,4-Dichlorobenzene	< 3	ug/l	3	9.6	10	8260B		12/18/2013	CJR	1
1,3-Dichlorobenzene	< 2.8	ug/l	2.8	8.9	10	8260B		12/18/2013	CJR	1
1,2-Dichlorobenzene	< 3.6	ug/l	3.6	12	10	8260B		12/18/2013	CJR	1
Dichlorodifluoromethane	< 4.4	ug/l	4.4	14	10	8260B		12/18/2013	CJR	1
1,2-Dichloroethane	< 4.1	ug/l	4.1	13	10	8260B		12/18/2013	CJR	1
1,1-Dichloroethane	< 3	ug/l	3	9.7	10	8260B		12/18/2013	CJR	1
1,1-Dichloroethene	< 4	ug/l	4	13	10	8260B		12/18/2013	CJR	1
cis-1,2-Dichloroethene	< 3.8	ug/l	3.8	12	10	8260B		12/18/2013	CJR	1
trans-1,2-Dichloroethene	< 3.5	ug/l	3.5	11	10	8260B		12/18/2013	CJR	1
1,2-Dichloropropane	< 3.2	ug/l	3.2	10	10	8260B		12/18/2013	CJR	1
2,2-Dichloropropane	< 3.6	ug/l	3.6	12	10	8260B		12/18/2013	CJR	4 8
1,3-Dichloropropane	< 3.3	ug/l	3.3	10	10	8260B		12/18/2013	CJR	1
Di-isopropyl ether	< 2.3	ug/l	2.3	7.3	10	8260B		12/18/2013	CJR	1
EDB (1,2-Dibromoethane)	< 4.4	ug/l	4.4	14	10	8260B		12/18/2013	CJR	1
Ethylbenzene	271	ug/l	5.5	17	10	8260B		12/18/2013	CJR	1
Hexachlorobutadiene	< 15	ug/l	15	48	10	8260B		12/18/2013	CJR	1
Isopropylbenzene	29.2	ug/l	3	9.6	10	8260B		12/18/2013	CJR	1
p-Isopropyltoluene	5.6 "J"	ug/l	3.1	9.8	10	8260B		12/18/2013	CJR	1
Methylene chloride	< 5	ug/l	5	16	10	8260B		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.3	ug/l	2.3	7.4	10	8260B		12/18/2013	CJR	1
Naphthalene	102	ug/l	17	55	10	8260B		12/18/2013	CJR	1
n-Propylbenzene	144	ug/l	2.5	8.1	10	8260B		12/18/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 4.5	ug/l	4.5	14	10	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 3.3	ug/l	3.3	11	10	8260B		12/18/2013	CJR	1
Tetrachloroethene	< 3.3	ug/l	3.3	11	10	8260B		12/18/2013	CJR	1
Toluene	29.9	ug/l	6.9	22	10	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 18	ug/l	18	58	10	8260B		12/18/2013	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10	10	8260B		12/18/2013	CJR	1
1,1,2-Trichloroethane	< 3.4	ug/l	3.4	11	10	8260B		12/18/2013	CJR	1
Trichloroethene (TCE)	< 3.3	ug/l	3.3	10	10	8260B		12/18/2013	CJR	1
Trichlorofluoromethane	< 7.1	ug/l	7.1	23	10	8260B		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	710	ug/l	22	69	10	8260B		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	237	ug/l	14	45	10	8260B		12/18/2013	CJR	1
Vinyl Chloride	< 1.8	ug/l	1.8	5.7	10	8260B		12/18/2013	CJR	1
m&p-Xylene	350	ug/l	6.9	22	10	8260B		12/18/2013	CJR	1
o-Xylene	114	ug/l	6.3	20	10	8260B		12/18/2013	CJR	1
SUR - Dibromofluoromethane	99	REC %			10	8260B		12/18/2013	CJR	1
SUR - Toluene-d8	104	REC %			10	8260B		12/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			10	8260B		12/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			10	8260B		12/18/2013	CJR	1

Project Name DA SWAMP
Project # P101399.40

Invoice # E26276

Lab Code 5026276D
Sample ID TRIP BLANK
Sample Matrix water
Sample Date 12/12/2013

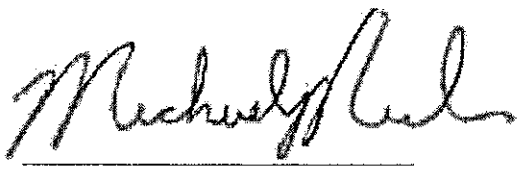
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/18/2013	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		12/18/2013	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		12/18/2013	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		12/18/2013	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		12/18/2013	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		12/18/2013	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		12/18/2013	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		12/18/2013	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		12/18/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		12/18/2013	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		12/18/2013	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/18/2013	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/18/2013	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		12/18/2013	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/18/2013	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		12/18/2013	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		12/18/2013	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		12/18/2013	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		12/18/2013	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	4 8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		12/18/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		12/18/2013	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		12/18/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		12/18/2013	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		12/18/2013	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		12/18/2013	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		12/18/2013	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		12/18/2013	CJR	1
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		12/18/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		12/18/2013	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		12/18/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/18/2013	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		12/18/2013	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		12/18/2013	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		12/18/2013	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		12/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	95	REC %			1	8260B		12/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			1	8260B		12/18/2013	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		12/18/2013	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
4	The continuing calibration standard not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



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www.pacelabs.com

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

January 09, 2014

Joe Ramcheck
ENDEAVOR ENVIRONMENTAL SERVICES, INC.
2280-B Salscheider Court
Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 31, 2013. 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: P101399.40 DA SWAMP
Pace Project No.: 4090618

Minnesota Certification IDs
1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Dept of Environmental Management #40770
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
EPA Region 5 #WD-15J
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

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
New York Certification #: 11888
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4090618001	MW-1	Water	12/27/13 14:50	12/31/13 10:45
4090618002	MW-3	Water	12/27/13 15:00	12/31/13 10:45
4090618003	MW-4	Water	12/27/13 15:35	12/31/13 10:45
4090618004	MW-2	Water	12/27/13 15:45	12/31/13 10:45
4090618005	MW-5	Water	12/27/13 16:45	12/31/13 10:45
4090618006	SUMP	Water	12/27/13 16:05	12/31/13 10:45
4090618007	POTABLE	Water	12/27/13 16:15	12/31/13 10:45
4090618008	TRIP BLANK	Water	12/27/13 00:00	12/31/13 10:45

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SAMPLE ANALYTE COUNT

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4090618001	MW-1	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618002	MW-3	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618003	MW-4	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618004	MW-2	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618005	MW-5	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618006	SUMP	EPA 8260	LAP	64	PASI-G
4090618007	POTABLE	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 524.2	LPM	75	PASI-M
4090618008	TRIP BLANK	EPA 8260	LAP	64	PASI-G

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-1 **Lab ID: 4090618001** Collected: 12/27/13 14:50 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0064**	ug/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 08:35	83-32-9	
Acenaphthylene	**<0.0053**	ug/L	0.050	0.0053	1	01/02/14 08:17	01/08/14 08:35	208-96-8	
Anthracene	**<0.0062**	ug/L	0.050	0.0062	1	01/02/14 08:17	01/08/14 08:35	120-12-7	
Benzo(a)anthracene	**<0.0065**	ug/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 08:35	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.050	0.011	1	01/02/14 08:17	01/08/14 08:35	50-32-8	
Benzo(b)fluoranthene	**<0.0083**	ug/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 08:35	205-99-2	
Benzo(g,h,i)perylene	**<0.0090**	ug/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 08:35	191-24-2	
Benzo(k)fluoranthene	**<0.012**	ug/L	0.050	0.012	1	01/02/14 08:17	01/08/14 08:35	207-08-9	
Chrysene	**<0.0080**	ug/L	0.050	0.0080	1	01/02/14 08:17	01/08/14 08:35	218-01-9	
Dibenz(a,h)anthracene	**<0.0074**	ug/L	0.050	0.0074	1	01/02/14 08:17	01/08/14 08:35	53-70-3	
Fluoranthene	**0.0098J**	ug/L	0.050	0.0058	1	01/02/14 08:17	01/08/14 08:35	206-44-0	
Fluorene	**<0.0072**	ug/L	0.050	0.0072	1	01/02/14 08:17	01/08/14 08:35	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0095**	ug/L	0.050	0.0095	1	01/02/14 08:17	01/08/14 08:35	193-39-5	
1-Methylnaphthalene	**<0.0070**	ug/L	0.050	0.0070	1	01/02/14 08:17	01/08/14 08:35	90-12-0	
2-Methylnaphthalene	**0.0074J**	ug/L	0.050	0.0068	1	01/02/14 08:17	01/08/14 08:35	91-57-6	
Naphthalene	**0.0082J**	ug/L	0.050	0.0051	1	01/02/14 08:17	01/08/14 08:35	91-20-3	
Phenanthrene	**0.014J**	ug/L	0.050	0.0055	1	01/02/14 08:17	01/08/14 08:35	85-01-8	B
Pyrene	**0.011J**	ug/L	0.050	0.0059	1	01/02/14 08:17	01/08/14 08:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%	39-130		1	01/02/14 08:17	01/08/14 08:35	321-60-8	
Terphenyl-d14 (S)	128	%	73-155		1	01/02/14 08:17	01/08/14 08:35	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:01	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		01/03/14 11:01	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:01	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/03/14 11:01	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/03/14 11:01	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:01	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		01/03/14 11:01	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 11:01	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/03/14 11:01	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:01	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:01	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/03/14 11:01	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 11:01	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:01	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:01	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/03/14 11:01	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/03/14 11:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/03/14 11:01	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:01	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:01	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:01	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 11:01	106-46-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-1 **Lab ID: 4090618001** Collected: 12/27/13 14:50 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:01	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/03/14 11:01	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:01	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 11:01	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 11:01	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/03/14 11:01	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		01/03/14 11:01	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		01/03/14 11:01	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/03/14 11:01	10061-01-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/03/14 11:01	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		01/03/14 11:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		01/03/14 11:01	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:01	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:01	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/03/14 11:01	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 11:01	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/03/14 11:01	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:01	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		01/03/14 11:01	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/03/14 11:01	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:01	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		01/03/14 11:01	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 11:01	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:01	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 11:01	79-00-5	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:01	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:01	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		01/03/14 11:01	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/03/14 11:01	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		01/03/14 11:01	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	43-137		1		01/03/14 11:01	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/03/14 11:01	1868-53-7	
Toluene-d8 (S)	92	%	55-137		1		01/03/14 11:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-3 **Lab ID: 4090618002** Collected: 12/27/13 15:00 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0064**	ug/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 08:53	83-32-9	
Acenaphthylene	**<0.0053**	ug/L	0.050	0.0053	1	01/02/14 08:17	01/08/14 08:53	208-96-8	
Anthracene	**<0.0062**	ug/L	0.050	0.0062	1	01/02/14 08:17	01/08/14 08:53	120-12-7	
Benzo(a)anthracene	**0.0068J**	ug/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 08:53	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.050	0.011	1	01/02/14 08:17	01/08/14 08:53	50-32-8	
Benzo(b)fluoranthene	**0.0091J**	ug/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 08:53	205-99-2	
Benzo(g,h,i)perylene	**<0.0090**	ug/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 08:53	191-24-2	
Benzo(k)fluoranthene	**<0.012**	ug/L	0.050	0.012	1	01/02/14 08:17	01/08/14 08:53	207-08-9	
Chrysene	**<0.0080**	ug/L	0.050	0.0080	1	01/02/14 08:17	01/08/14 08:53	218-01-9	
Dibenz(a,h)anthracene	**<0.0074**	ug/L	0.050	0.0074	1	01/02/14 08:17	01/08/14 08:53	53-70-3	
Fluoranthene	**<0.0058**	ug/L	0.050	0.0058	1	01/02/14 08:17	01/08/14 08:53	206-44-0	
Fluorene	**<0.0072**	ug/L	0.050	0.0072	1	01/02/14 08:17	01/08/14 08:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0095**	ug/L	0.050	0.0095	1	01/02/14 08:17	01/08/14 08:53	193-39-5	
1-Methylnaphthalene	**<0.0070**	ug/L	0.050	0.0070	1	01/02/14 08:17	01/08/14 08:53	90-12-0	
2-Methylnaphthalene	**<0.0068**	ug/L	0.050	0.0068	1	01/02/14 08:17	01/08/14 08:53	91-57-6	
Naphthalene	**0.0095J**	ug/L	0.050	0.0051	1	01/02/14 08:17	01/08/14 08:53	91-20-3	
Phenanthrene	**0.011J**	ug/L	0.050	0.0055	1	01/02/14 08:17	01/08/14 08:53	85-01-8	B
Pyrene	**0.0065J**	ug/L	0.050	0.0059	1	01/02/14 08:17	01/08/14 08:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%	39-130		1	01/02/14 08:17	01/08/14 08:53	321-60-8	
Terphenyl-d14 (S)	119	%	73-155		1	01/02/14 08:17	01/08/14 08:53	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:24	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		01/03/14 11:24	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:24	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/03/14 11:24	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/03/14 11:24	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:24	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		01/03/14 11:24	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 11:24	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/03/14 11:24	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:24	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:24	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/03/14 11:24	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 11:24	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:24	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:24	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/03/14 11:24	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/03/14 11:24	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/03/14 11:24	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:24	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:24	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:24	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 11:24	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-3 **Lab ID: 4090618002** Collected: 12/27/13 15:00 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:24	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/03/14 11:24	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:24	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 11:24	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 11:24	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/03/14 11:24	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		01/03/14 11:24	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		01/03/14 11:24	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/03/14 11:24	10061-01-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/03/14 11:24	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		01/03/14 11:24	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		01/03/14 11:24	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:24	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:24	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/03/14 11:24	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 11:24	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/03/14 11:24	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:24	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		01/03/14 11:24	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/03/14 11:24	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:24	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		01/03/14 11:24	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 11:24	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:24	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 11:24	79-00-5	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:24	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:24	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		01/03/14 11:24	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/03/14 11:24	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		01/03/14 11:24	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:24	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	43-137		1		01/03/14 11:24	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		01/03/14 11:24	1868-53-7	
Toluene-d8 (S)	94	%	55-137		1		01/03/14 11:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-4 **Lab ID: 4090618003** Collected: 12/27/13 15:35 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0064**	ug/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 09:47	83-32-9	
Acenaphthylene	**<0.0053**	ug/L	0.050	0.0053	1	01/02/14 08:17	01/08/14 09:47	208-96-8	
Anthracene	**<0.0062**	ug/L	0.050	0.0062	1	01/02/14 08:17	01/08/14 09:47	120-12-7	
Benzo(a)anthracene	**<0.0065**	ug/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 09:47	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.050	0.011	1	01/02/14 08:17	01/08/14 09:47	50-32-8	
Benzo(b)fluoranthene	**<0.0083**	ug/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 09:47	205-99-2	
Benzo(g,h,i)perylene	**<0.0090**	ug/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 09:47	191-24-2	
Benzo(k)fluoranthene	**<0.012**	ug/L	0.050	0.012	1	01/02/14 08:17	01/08/14 09:47	207-08-9	
Chrysene	**<0.0080**	ug/L	0.050	0.0080	1	01/02/14 08:17	01/08/14 09:47	218-01-9	
Dibenz(a,h)anthracene	**<0.0074**	ug/L	0.050	0.0074	1	01/02/14 08:17	01/08/14 09:47	53-70-3	
Fluoranthene	**0.0068J**	ug/L	0.050	0.0058	1	01/02/14 08:17	01/08/14 09:47	206-44-0	
Fluorene	**<0.0072**	ug/L	0.050	0.0072	1	01/02/14 08:17	01/08/14 09:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0095**	ug/L	0.050	0.0095	1	01/02/14 08:17	01/08/14 09:47	193-39-5	
1-Methylnaphthalene	**<0.0070**	ug/L	0.050	0.0070	1	01/02/14 08:17	01/08/14 09:47	90-12-0	
2-Methylnaphthalene	**<0.0068**	ug/L	0.050	0.0068	1	01/02/14 08:17	01/08/14 09:47	91-57-6	
Naphthalene	**0.0056J**	ug/L	0.050	0.0051	1	01/02/14 08:17	01/08/14 09:47	91-20-3	
Phenanthrene	**0.011J**	ug/L	0.050	0.0055	1	01/02/14 08:17	01/08/14 09:47	85-01-8	B
Pyrene	**0.0075J**	ug/L	0.050	0.0059	1	01/02/14 08:17	01/08/14 09:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	79	%	39-130		1	01/02/14 08:17	01/08/14 09:47	321-60-8	
Terphenyl-d14 (S)	127	%	73-155		1	01/02/14 08:17	01/08/14 09:47	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:47	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		01/03/14 11:47	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:47	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/03/14 11:47	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/03/14 11:47	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:47	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		01/03/14 11:47	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 11:47	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/03/14 11:47	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:47	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:47	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/03/14 11:47	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 11:47	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:47	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:47	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/03/14 11:47	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/03/14 11:47	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/03/14 11:47	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:47	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:47	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:47	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 11:47	106-46-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-4 Lab ID: **4090618003** Collected: 12/27/13 15:35 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:47	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/03/14 11:47	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:47	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 11:47	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 11:47	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/03/14 11:47	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		01/03/14 11:47	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		01/03/14 11:47	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/03/14 11:47	10061-01-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/03/14 11:47	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		01/03/14 11:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		01/03/14 11:47	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 11:47	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:47	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/03/14 11:47	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 11:47	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/03/14 11:47	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 11:47	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		01/03/14 11:47	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/03/14 11:47	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:47	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		01/03/14 11:47	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 11:47	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 11:47	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 11:47	79-00-5	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 11:47	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 11:47	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		01/03/14 11:47	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/03/14 11:47	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		01/03/14 11:47	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 11:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	43-137		1		01/03/14 11:47	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		01/03/14 11:47	1868-53-7	
Toluene-d8 (S)	92	%	55-137		1		01/03/14 11:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-2 **Lab ID: 4090618004** Collected: 12/27/13 15:45 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<3.2**	ug/L	25.0	3.2	500	01/02/14 08:17	01/08/14 10:05	83-32-9	
Acenaphthylene	**<2.6**	ug/L	25.0	2.6	500	01/02/14 08:17	01/08/14 10:05	208-96-8	
Anthracene	**<3.1**	ug/L	25.0	3.1	500	01/02/14 08:17	01/08/14 10:05	120-12-7	
Benzo(a)anthracene	**<3.2**	ug/L	25.0	3.2	500	01/02/14 08:17	01/08/14 10:05	56-55-3	
Benzo(a)pyrene	**<5.3**	ug/L	25.0	5.3	500	01/02/14 08:17	01/08/14 10:05	50-32-8	
Benzo(b)fluoranthene	**<4.2**	ug/L	25.0	4.2	500	01/02/14 08:17	01/08/14 10:05	205-99-2	
Benzo(g,h,i)perylene	**<4.5**	ug/L	25.0	4.5	500	01/02/14 08:17	01/08/14 10:05	191-24-2	
Benzo(k)fluoranthene	**<5.8**	ug/L	25.0	5.8	500	01/02/14 08:17	01/08/14 10:05	207-08-9	
Chrysene	**<4.0**	ug/L	25.0	4.0	500	01/02/14 08:17	01/08/14 10:05	218-01-9	
Dibenz(a,h)anthracene	**<3.7**	ug/L	25.0	3.7	500	01/02/14 08:17	01/08/14 10:05	53-70-3	
Fluoranthene	**<2.9**	ug/L	25.0	2.9	500	01/02/14 08:17	01/08/14 10:05	206-44-0	
Fluorene	**<3.6**	ug/L	25.0	3.6	500	01/02/14 08:17	01/08/14 10:05	86-73-7	
Indeno(1,2,3-cd)pyrene	**<4.8**	ug/L	25.0	4.8	500	01/02/14 08:17	01/08/14 10:05	193-39-5	
1-Methylnaphthalene	**35.5**	ug/L	25.0	3.5	500	01/02/14 08:17	01/08/14 10:05	90-12-0	
2-Methylnaphthalene	**72.8**	ug/L	25.0	3.4	500	01/02/14 08:17	01/08/14 10:05	91-57-6	
Naphthalene	**241**	ug/L	25.0	2.6	500	01/02/14 08:17	01/08/14 10:05	91-20-3	
Phenanthrene	**<2.8**	ug/L	25.0	2.8	500	01/02/14 08:17	01/08/14 10:05	85-01-8	
Pyrene	**<3.0**	ug/L	25.0	3.0	500	01/02/14 08:17	01/08/14 10:05	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-130		500	01/02/14 08:17	01/08/14 10:05	321-60-8	S4
Terphenyl-d14 (S)	0	%	73-155		500	01/02/14 08:17	01/08/14 10:05	1718-51-0	S4
8260 MSV	Analytical Method: EPA 8260								
Benzene	**12600**	ug/L	100	50.0	100		01/03/14 09:30	71-43-2	
Bromobenzene	**<48.4**	ug/L	100	48.4	100		01/03/14 09:30	108-86-1	
Bromochloromethane	**<49.2**	ug/L	100	49.2	100		01/03/14 09:30	74-97-5	
Bromodichloromethane	**<45.3**	ug/L	100	45.3	100		01/03/14 09:30	75-27-4	
Bromoform	**<32.7**	ug/L	100	32.7	100		01/03/14 09:30	75-25-2	
Bromomethane	**<43.0**	ug/L	500	43.0	100		01/03/14 09:30	74-83-9	
n-Butylbenzene	**<40.0**	ug/L	100	40.0	100		01/03/14 09:30	104-51-8	
sec-Butylbenzene	**<60.5**	ug/L	500	60.5	100		01/03/14 09:30	135-98-8	
tert-Butylbenzene	**<42.4**	ug/L	100	42.4	100		01/03/14 09:30	98-06-6	
Carbon tetrachloride	**<36.5**	ug/L	100	36.5	100		01/03/14 09:30	56-23-5	
Chlorobenzene	**<35.8**	ug/L	100	35.8	100		01/03/14 09:30	108-90-7	
Chloroethane	**<44.4**	ug/L	100	44.4	100		01/03/14 09:30	75-00-3	
Chloroform	**<68.9**	ug/L	500	68.9	100		01/03/14 09:30	67-66-3	
Chloromethane	**<38.8**	ug/L	100	38.8	100		01/03/14 09:30	74-87-3	
2-Chlorotoluene	**<47.7**	ug/L	100	47.7	100		01/03/14 09:30	95-49-8	
4-Chlorotoluene	**<48.4**	ug/L	100	48.4	100		01/03/14 09:30	106-43-4	
1,2-Dibromo-3-chloropropane	**<150**	ug/L	500	150	100		01/03/14 09:30	96-12-8	
Dibromochloromethane	**<190**	ug/L	500	190	100		01/03/14 09:30	124-48-1	
1,2-Dibromoethane (EDB)	**<38.1**	ug/L	100	38.1	100		01/03/14 09:30	106-93-4	
Dibromomethane	**<48.0**	ug/L	100	48.0	100		01/03/14 09:30	74-95-3	
1,2-Dichlorobenzene	**<43.9**	ug/L	100	43.9	100		01/03/14 09:30	95-50-1	
1,3-Dichlorobenzene	**<45.1**	ug/L	100	45.1	100		01/03/14 09:30	541-73-1	
1,4-Dichlorobenzene	**<43.4**	ug/L	100	43.4	100		01/03/14 09:30	106-46-7	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-2 **Lab ID: 4090618004** Collected: 12/27/13 15:45 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<40.1**	ug/L	100	40.1	100		01/03/14 09:30	75-71-8	
1,1-Dichloroethane	**<28.5**	ug/L	100	28.5	100		01/03/14 09:30	75-34-3	
1,2-Dichloroethane	**<47.6**	ug/L	100	47.6	100		01/03/14 09:30	107-06-2	
1,1-Dichloroethene	**<42.7**	ug/L	100	42.7	100		01/03/14 09:30	75-35-4	
cis-1,2-Dichloroethene	**<41.9**	ug/L	100	41.9	100		01/03/14 09:30	156-59-2	
trans-1,2-Dichloroethene	**<37.1**	ug/L	100	37.1	100		01/03/14 09:30	156-60-5	
1,2-Dichloropropane	**<49.8**	ug/L	100	49.8	100		01/03/14 09:30	78-87-5	
1,3-Dichloropropane	**<46.3**	ug/L	100	46.3	100		01/03/14 09:30	142-28-9	
2,2-Dichloropropane	**<50.0**	ug/L	100	50.0	100		01/03/14 09:30	594-20-7	
1,1-Dichloropropene	**<50.7**	ug/L	100	50.7	100		01/03/14 09:30	563-58-6	
cis-1,3-Dichloropropene	**<29.0**	ug/L	100	29.0	100		01/03/14 09:30	10061-01-5	
trans-1,3-Dichloropropene	**<30.3**	ug/L	100	30.3	100		01/03/14 09:30	10061-02-6	
Diisopropyl ether	**<50.0**	ug/L	100	50.0	100		01/03/14 09:30	108-20-3	
Ethylbenzene	**1440**	ug/L	100	50.0	100		01/03/14 09:30	100-41-4	
Hexachloro-1,3-butadiene	**<126**	ug/L	500	126	100		01/03/14 09:30	87-68-3	
Isopropylbenzene (Cumene)	**38.0J**	ug/L	100	34.1	100		01/03/14 09:30	98-82-8	
p-Isopropyltoluene	**<39.7**	ug/L	100	39.7	100		01/03/14 09:30	99-87-6	
Methylene Chloride	**<35.9**	ug/L	100	35.9	100		01/03/14 09:30	75-09-2	
Methyl-tert-butyl ether	**288**	ug/L	100	49.4	100		01/03/14 09:30	1634-04-4	
Naphthalene	**<250**	ug/L	500	250	100		01/03/14 09:30	91-20-3	
n-Propylbenzene	**122**	ug/L	100	50.0	100		01/03/14 09:30	103-65-1	
Styrene	**<35.0**	ug/L	100	35.0	100		01/03/14 09:30	100-42-5	
1,1,1,2-Tetrachloroethane	**<45.0**	ug/L	100	45.0	100		01/03/14 09:30	630-20-6	
1,1,2,2-Tetrachloroethane	**<38.4**	ug/L	100	38.4	100		01/03/14 09:30	79-34-5	
Tetrachloroethene	**<47.2**	ug/L	100	47.2	100		01/03/14 09:30	127-18-4	
Toluene	**11900**	ug/L	100	43.9	100		01/03/14 09:30	108-88-3	
1,2,3-Trichlorobenzene	**<76.8**	ug/L	500	76.8	100		01/03/14 09:30	87-61-6	
1,2,4-Trichlorobenzene	**<250**	ug/L	500	250	100		01/03/14 09:30	120-82-1	
1,1,1-Trichloroethane	**<44.3**	ug/L	100	44.3	100		01/03/14 09:30	71-55-6	
1,1,2-Trichloroethane	**<39.0**	ug/L	100	39.0	100		01/03/14 09:30	79-00-5	
Trichloroethene	**<36.4**	ug/L	100	36.4	100		01/03/14 09:30	79-01-6	
Trichlorofluoromethane	**<47.7**	ug/L	100	47.7	100		01/03/14 09:30	75-69-4	
1,2,3-Trichloropropane	**<46.8**	ug/L	100	46.8	100		01/03/14 09:30	96-18-4	
1,2,4-Trimethylbenzene	**1020**	ug/L	100	50.0	100		01/03/14 09:30	95-63-6	
1,3,5-Trimethylbenzene	**246**	ug/L	100	50.0	100		01/03/14 09:30	108-67-8	
Vinyl chloride	**<18.5**	ug/L	100	18.5	100		01/03/14 09:30	75-01-4	
m&p-Xylene	**4000**	ug/L	200	81.7	100		01/03/14 09:30	179601-23-1	
o-Xylene	**1690**	ug/L	100	50.0	100		01/03/14 09:30	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	43-137		100		01/03/14 09:30	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		100		01/03/14 09:30	1868-53-7	
Toluene-d8 (S)	97	%	55-137		100		01/03/14 09:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-5 **Lab ID: 4090618005** Collected: 12/27/13 16:45 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<25.6**	ug/L	200	25.6	4000	01/02/14 08:17	01/08/14 13:06	83-32-9	
Acenaphthylene	**<21.2**	ug/L	200	21.2	4000	01/02/14 08:17	01/08/14 13:06	208-96-8	
Anthracene	**<24.8**	ug/L	200	24.8	4000	01/02/14 08:17	01/08/14 13:06	120-12-7	
Benzo(a)anthracene	**<26.0**	ug/L	200	26.0	4000	01/02/14 08:17	01/08/14 13:06	56-55-3	
Benzo(a)pyrene	**<42.4**	ug/L	200	42.4	4000	01/02/14 08:17	01/08/14 13:06	50-32-8	
Benzo(b)fluoranthene	**<33.2**	ug/L	200	33.2	4000	01/02/14 08:17	01/08/14 13:06	205-99-2	
Benzo(g,h,i)perylene	**<36.0**	ug/L	200	36.0	4000	01/02/14 08:17	01/08/14 13:06	191-24-2	
Benzo(k)fluoranthene	**<46.0**	ug/L	200	46.0	4000	01/02/14 08:17	01/08/14 13:06	207-08-9	
Chrysene	**<32.0**	ug/L	200	32.0	4000	01/02/14 08:17	01/08/14 13:06	218-01-9	
Dibenz(a,h)anthracene	**<29.6**	ug/L	200	29.6	4000	01/02/14 08:17	01/08/14 13:06	53-70-3	
Fluoranthene	**<23.2**	ug/L	200	23.2	4000	01/02/14 08:17	01/08/14 13:06	206-44-0	
Fluorene	**<28.8**	ug/L	200	28.8	4000	01/02/14 08:17	01/08/14 13:06	86-73-7	
Indeno(1,2,3-cd)pyrene	**<38.0**	ug/L	200	38.0	4000	01/02/14 08:17	01/08/14 13:06	193-39-5	
1-Methylnaphthalene	**686**	ug/L	200	28.0	4000	01/02/14 08:17	01/08/14 13:06	90-12-0	
2-Methylnaphthalene	**1510**	ug/L	200	27.2	4000	01/02/14 08:17	01/08/14 13:06	91-57-6	
Naphthalene	**2290**	ug/L	200	20.4	4000	01/02/14 08:17	01/08/14 13:06	91-20-3	
Phenanthrene	**<22.0**	ug/L	200	22.0	4000	01/02/14 08:17	01/08/14 13:06	85-01-8	
Pyrene	**<23.6**	ug/L	200	23.6	4000	01/02/14 08:17	01/08/14 13:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	39-130		4000	01/02/14 08:17	01/08/14 13:06	321-60-8	S4
Terphenyl-d14 (S)	0	%	73-155		4000	01/02/14 08:17	01/08/14 13:06	1718-51-0	S4
8260 MSV	Analytical Method: EPA 8260								
Benzene	**8650**	ug/L	400	200	400		01/03/14 09:53	71-43-2	
Bromobenzene	**<193**	ug/L	400	193	400		01/03/14 09:53	108-86-1	
Bromochloromethane	**<197**	ug/L	400	197	400		01/03/14 09:53	74-97-5	
Bromodichloromethane	**<181**	ug/L	400	181	400		01/03/14 09:53	75-27-4	
Bromoform	**<131**	ug/L	400	131	400		01/03/14 09:53	75-25-2	
Bromomethane	**<172**	ug/L	2000	172	400		01/03/14 09:53	74-83-9	
n-Butylbenzene	**<160**	ug/L	400	160	400		01/03/14 09:53	104-51-8	
sec-Butylbenzene	**<242**	ug/L	2000	242	400		01/03/14 09:53	135-98-8	
tert-Butylbenzene	**<170**	ug/L	400	170	400		01/03/14 09:53	98-06-6	
Carbon tetrachloride	**<146**	ug/L	400	146	400		01/03/14 09:53	56-23-5	
Chlorobenzene	**<143**	ug/L	400	143	400		01/03/14 09:53	108-90-7	
Chloroethane	**<177**	ug/L	400	177	400		01/03/14 09:53	75-00-3	
Chloroform	**<275**	ug/L	2000	275	400		01/03/14 09:53	67-66-3	
Chloromethane	**<155**	ug/L	400	155	400		01/03/14 09:53	74-87-3	
2-Chlorotoluene	**<191**	ug/L	400	191	400		01/03/14 09:53	95-49-8	
4-Chlorotoluene	**<193**	ug/L	400	193	400		01/03/14 09:53	106-43-4	
1,2-Dibromo-3-chloropropane	**<599**	ug/L	2000	599	400		01/03/14 09:53	96-12-8	
Dibromochloromethane	**<758**	ug/L	2000	758	400		01/03/14 09:53	124-48-1	
1,2-Dibromoethane (EDB)	**<152**	ug/L	400	152	400		01/03/14 09:53	106-93-4	
Dibromomethane	**<192**	ug/L	400	192	400		01/03/14 09:53	74-95-3	
1,2-Dichlorobenzene	**<175**	ug/L	400	175	400		01/03/14 09:53	95-50-1	
1,3-Dichlorobenzene	**<180**	ug/L	400	180	400		01/03/14 09:53	541-73-1	
1,4-Dichlorobenzene	**<174**	ug/L	400	174	400		01/03/14 09:53	106-46-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: MW-5 Lab ID: **4090618005** Collected: 12/27/13 16:45 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<160**	ug/L	400	160	400		01/03/14 09:53	75-71-8	
1,1-Dichloroethane	**<114**	ug/L	400	114	400		01/03/14 09:53	75-34-3	
1,2-Dichloroethane	**<191**	ug/L	400	191	400		01/03/14 09:53	107-06-2	
1,1-Dichloroethene	**<171**	ug/L	400	171	400		01/03/14 09:53	75-35-4	
cis-1,2-Dichloroethene	**<168**	ug/L	400	168	400		01/03/14 09:53	156-59-2	
trans-1,2-Dichloroethene	**<149**	ug/L	400	149	400		01/03/14 09:53	156-60-5	
1,2-Dichloropropane	**<199**	ug/L	400	199	400		01/03/14 09:53	78-87-5	
1,3-Dichloropropane	**<185**	ug/L	400	185	400		01/03/14 09:53	142-28-9	
2,2-Dichloropropane	**<200**	ug/L	400	200	400		01/03/14 09:53	594-20-7	
1,1-Dichloropropene	**<203**	ug/L	400	203	400		01/03/14 09:53	563-58-6	
cis-1,3-Dichloropropene	**<116**	ug/L	400	116	400		01/03/14 09:53	10061-01-5	
trans-1,3-Dichloropropene	**<121**	ug/L	400	121	400		01/03/14 09:53	10061-02-6	
Diisopropyl ether	**<200**	ug/L	400	200	400		01/03/14 09:53	108-20-3	
Ethylbenzene	**2980**	ug/L	400	200	400		01/03/14 09:53	100-41-4	
Hexachloro-1,3-butadiene	**<503**	ug/L	2000	503	400		01/03/14 09:53	87-68-3	
Isopropylbenzene (Cumene)	**<136**	ug/L	400	136	400		01/03/14 09:53	98-82-8	
p-Isopropyltoluene	**<159**	ug/L	400	159	400		01/03/14 09:53	99-87-6	
Methylene Chloride	**<143**	ug/L	400	143	400		01/03/14 09:53	75-09-2	
Methyl-tert-butyl ether	**<197**	ug/L	400	197	400		01/03/14 09:53	1634-04-4	
Naphthalene	**<1000**	ug/L	2000	1000	400		01/03/14 09:53	91-20-3	
n-Propylbenzene	**272J**	ug/L	400	200	400		01/03/14 09:53	103-65-1	
Styrene	**<140**	ug/L	400	140	400		01/03/14 09:53	100-42-5	
1,1,1,2-Tetrachloroethane	**<180**	ug/L	400	180	400		01/03/14 09:53	630-20-6	
1,1,2,2-Tetrachloroethane	**<154**	ug/L	400	154	400		01/03/14 09:53	79-34-5	
Tetrachloroethene	**<189**	ug/L	400	189	400		01/03/14 09:53	127-18-4	
Toluene	**35900**	ug/L	400	175	400		01/03/14 09:53	108-88-3	
1,2,3-Trichlorobenzene	**<307**	ug/L	2000	307	400		01/03/14 09:53	87-61-6	
1,2,4-Trichlorobenzene	**<1000**	ug/L	2000	1000	400		01/03/14 09:53	120-82-1	
1,1,1-Trichloroethane	**<177**	ug/L	400	177	400		01/03/14 09:53	71-55-6	
1,1,2-Trichloroethane	**<156**	ug/L	400	156	400		01/03/14 09:53	79-00-5	
Trichloroethene	**<146**	ug/L	400	146	400		01/03/14 09:53	79-01-6	
Trichlorofluoromethane	**<191**	ug/L	400	191	400		01/03/14 09:53	75-69-4	
1,2,3-Trichloropropane	**<187**	ug/L	400	187	400		01/03/14 09:53	96-18-4	
1,2,4-Trimethylbenzene	**2370**	ug/L	400	200	400		01/03/14 09:53	95-63-6	
1,3,5-Trimethylbenzene	**563**	ug/L	400	200	400		01/03/14 09:53	108-67-8	
Vinyl chloride	**<74.0**	ug/L	400	74.0	400		01/03/14 09:53	75-01-4	
m&p-Xylene	**11000**	ug/L	800	327	400		01/03/14 09:53	179601-23-1	
o-Xylene	**4600**	ug/L	400	200	400		01/03/14 09:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	43-137		400		01/03/14 09:53	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		400		01/03/14 09:53	1868-53-7	
Toluene-d8 (S)	98	%	55-137		400		01/03/14 09:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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(920)469-2436

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: SUMP Lab ID: **4090618006** Collected: 12/27/13 16:05 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:10	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		01/03/14 12:10	74-97-5	
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 12:10	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/03/14 12:10	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/03/14 12:10	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 12:10	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		01/03/14 12:10	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 12:10	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/03/14 12:10	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 12:10	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:10	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/03/14 12:10	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 12:10	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:10	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:10	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/03/14 12:10	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/03/14 12:10	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/03/14 12:10	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:10	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:10	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/03/14 12:10	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 12:10	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/03/14 12:10	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/03/14 12:10	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:10	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 12:10	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 12:10	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/03/14 12:10	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		01/03/14 12:10	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		01/03/14 12:10	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/03/14 12:10	10061-01-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/03/14 12:10	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		01/03/14 12:10	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		01/03/14 12:10	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 12:10	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/03/14 12:10	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/03/14 12:10	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 12:10	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/03/14 12:10	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 12:10	630-20-6	

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: SUMP Lab ID: **4090618006** Collected: 12/27/13 16:05 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		01/03/14 12:10	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/03/14 12:10	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:10	108-88-3	
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		01/03/14 12:10	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 12:10	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:10	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 12:10	79-00-5	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 12:10	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:10	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		01/03/14 12:10	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/03/14 12:10	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		01/03/14 12:10	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	43-137		1		01/03/14 12:10	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		01/03/14 12:10	1868-53-7	
Toluene-d8 (S)	98	%	55-137		1		01/03/14 12:10	2037-26-5	

Sample: POTABLE Lab ID: **4090618007** Collected: 12/27/13 16:15 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0064**	ug/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 10:41	83-32-9	
Acenaphthylene	**<0.0053**	ug/L	0.050	0.0053	1	01/02/14 08:17	01/08/14 10:41	208-96-8	
Anthracene	**<0.0062**	ug/L	0.050	0.0062	1	01/02/14 08:17	01/08/14 10:41	120-12-7	
Benzo(a)anthracene	**<0.0065**	ug/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 10:41	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.050	0.011	1	01/02/14 08:17	01/08/14 10:41	50-32-8	
Benzo(b)fluoranthene	**<0.0083**	ug/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 10:41	205-99-2	
Benzo(g,h,i)perylene	**<0.0090**	ug/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 10:41	191-24-2	
Benzo(k)fluoranthene	**<0.012**	ug/L	0.050	0.012	1	01/02/14 08:17	01/08/14 10:41	207-08-9	
Chrysene	**<0.0080**	ug/L	0.050	0.0080	1	01/02/14 08:17	01/08/14 10:41	218-01-9	
Dibenz(a,h)anthracene	**<0.0074**	ug/L	0.050	0.0074	1	01/02/14 08:17	01/08/14 10:41	53-70-3	
Fluoranthene	**0.0068J**	ug/L	0.050	0.0058	1	01/02/14 08:17	01/08/14 10:41	206-44-0	
Fluorene	**<0.0072**	ug/L	0.050	0.0072	1	01/02/14 08:17	01/08/14 10:41	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.0095**	ug/L	0.050	0.0095	1	01/02/14 08:17	01/08/14 10:41	193-39-5	
1-Methylnaphthalene	**0.097**	ug/L	0.050	0.0070	1	01/02/14 08:17	01/08/14 10:41	90-12-0	
2-Methylnaphthalene	**0.23**	ug/L	0.050	0.0068	1	01/02/14 08:17	01/08/14 10:41	91-57-6	
Naphthalene	**0.33**	ug/L	0.050	0.0051	1	01/02/14 08:17	01/08/14 10:41	91-20-3	
Phenanthrene	**0.013J**	ug/L	0.050	0.0055	1	01/02/14 08:17	01/08/14 10:41	85-01-8	B
Pyrene	**0.0076J**	ug/L	0.050	0.0059	1	01/02/14 08:17	01/08/14 10:41	129-00-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: POTABLE Lab ID: **4090618007** Collected: 12/27/13 16:15 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
2-Fluorobiphenyl (S)	68	%	39-130		1	01/02/14 08:17	01/08/14 10:41	321-60-8	
Terphenyl-d14 (S)	116	%	73-155		1	01/02/14 08:17	01/08/14 10:41	1718-51-0	
524.2 MSV	Analytical Method: EPA 524.2								
Acetone	**<10.0**	ug/L	20.0	10.0	1		01/08/14 20:32	67-64-1	
Acrylonitrile	**<5.0**	ug/L	10.0	5.0	1		01/08/14 20:32	107-13-1	
Benzene	**<0.24**	ug/L	0.50	0.24	1		01/08/14 20:32	71-43-2	
Bromobenzene	**<0.13**	ug/L	0.50	0.13	1		01/08/14 20:32	108-86-1	
Bromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/08/14 20:32	74-97-5	
Bromodichloromethane	**<0.18**	ug/L	1.0	0.18	1		01/08/14 20:32	75-27-4	
Bromoform	**<2.0**	ug/L	4.0	2.0	1		01/08/14 20:32	75-25-2	
Bromomethane	**<2.0**	ug/L	4.0	2.0	1		01/08/14 20:32	74-83-9	
2-Butanone (MEK)	**<2.5**	ug/L	5.0	2.5	1		01/08/14 20:32	78-93-3	
n-Butylbenzene	**<0.24**	ug/L	0.50	0.24	1		01/08/14 20:32	104-51-8	
sec-Butylbenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	135-98-8	
tert-Butylbenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	98-06-6	
Carbon disulfide	**<0.22**	ug/L	1.0	0.22	1		01/08/14 20:32	75-15-0	
Carbon tetrachloride	**<0.31**	ug/L	1.0	0.31	1		01/08/14 20:32	56-23-5	
Chlorobenzene	**<0.24**	ug/L	0.50	0.24	1		01/08/14 20:32	108-90-7	
Chloroethane	**<0.50**	ug/L	1.0	0.50	1		01/08/14 20:32	75-00-3	
Chloroform	**<0.50**	ug/L	0.50	0.50	1		01/08/14 20:32	67-66-3	
Chloromethane	**<0.50**	ug/L	4.0	0.50	1		01/08/14 20:32	74-87-3	
2-Chlorotoluene	**<0.23**	ug/L	0.50	0.23	1		01/08/14 20:32	95-49-8	
4-Chlorotoluene	**<0.083**	ug/L	0.50	0.083	1		01/08/14 20:32	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	4.0	2.0	1		01/08/14 20:32	96-12-8	
Dibromochloromethane	**<0.25**	ug/L	1.0	0.25	1		01/08/14 20:32	124-48-1	
1,2-Dibromoethane (EDB)	**<0.13**	ug/L	0.50	0.13	1		01/08/14 20:32	106-93-4	
Dibromomethane	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	74-95-3	
1,2-Dichlorobenzene	**<0.092**	ug/L	0.50	0.092	1		01/08/14 20:32	95-50-1	
1,3-Dichlorobenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	541-73-1	
1,4-Dichlorobenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	106-46-7	
trans-1,4-Dichloro-2-butene	**<5.0**	ug/L	10.0	5.0	1		01/08/14 20:32	110-57-6	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/08/14 20:32	75-71-8	
1,1-Dichloroethane	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	75-34-3	
1,2-Dichloroethane	**<0.21**	ug/L	0.50	0.21	1		01/08/14 20:32	107-06-2	
1,1-Dichloroethene	**<0.24**	ug/L	0.50	0.24	1		01/08/14 20:32	75-35-4	
cis-1,2-Dichloroethene	**<0.23**	ug/L	0.50	0.23	1		01/08/14 20:32	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/L	0.50	0.21	1		01/08/14 20:32	156-60-5	
1,2-Dichloropropane	**<0.20**	ug/L	4.0	0.20	1		01/08/14 20:32	78-87-5	
1,3-Dichloropropane	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/08/14 20:32	594-20-7	
1,1-Dichloropropene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	563-58-6	
cis-1,3-Dichloropropene	**<0.42**	ug/L	1.0	0.42	1		01/08/14 20:32	10061-01-5	
trans-1,3-Dichloropropene	**<0.25**	ug/L	1.0	0.25	1		01/08/14 20:32	10061-02-6	
Ethylbenzene	**<0.21**	ug/L	0.50	0.21	1		01/08/14 20:32	100-41-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: POTABLE **Lab ID: 4090618007** Collected: 12/27/13 16:15 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Ethyl methacrylate	**<2.5**	ug/L	4.0	2.5	1		01/08/14 20:32	97-63-2	
Hexachloro-1,3-butadiene	**<0.50**	ug/L	1.0	0.50	1		01/08/14 20:32	87-68-3	
2-Hexanone	**<2.5**	ug/L	5.0	2.5	1		01/08/14 20:32	591-78-6	
Isopropylbenzene (Cumene)	**<0.12**	ug/L	0.50	0.12	1		01/08/14 20:32	98-82-8	
p-Isopropyltoluene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	99-87-6	
Methylene Chloride	**<2.0**	ug/L	4.0	2.0	1		01/08/14 20:32	75-09-2	
Methyl methacrylate	**<2.3**	ug/L	5.0	2.3	1		01/08/14 20:32	80-62-6	
4-Methyl-2-pentanone (MIBK)	**<2.5**	ug/L	5.0	2.5	1		01/08/14 20:32	108-10-1	
Methyl-tert-butyl ether	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	1634-04-4	
Naphthalene	**<0.50**	ug/L	1.0	0.50	1		01/08/14 20:32	91-20-3	
2-Nitropropane	**<3.5**	ug/L	10.0	3.5	1		01/08/14 20:32	79-46-9	
n-Propylbenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	103-65-1	
Styrene	**<0.24**	ug/L	0.50	0.24	1		01/08/14 20:32	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/08/14 20:32	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.13**	ug/L	0.50	0.13	1		01/08/14 20:32	79-34-5	
Tetrachloroethene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	127-18-4	
Toluene	**<0.22**	ug/L	0.50	0.22	1		01/08/14 20:32	108-88-3	
Total Trihalomethanes (Calc.)	**<2.0**	ug/L	4.0	2.0	1		01/08/14 20:32		
1,2,3-Trichlorobenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	87-61-6	
1,2,4-Trichlorobenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	120-82-1	
1,1,1-Trichloroethane	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	71-55-6	
1,1,2-Trichloroethane	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	79-00-5	
Trichloroethene	**<0.13**	ug/L	0.50	0.13	1		01/08/14 20:32	79-01-6	
Trichlorofluoromethane	**<0.12**	ug/L	0.50	0.12	1		01/08/14 20:32	75-69-4	
1,2,3-Trichloropropane	**<0.54**	ug/L	4.0	0.54	1		01/08/14 20:32	96-18-4	
1,2,4-Trimethylbenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.25**	ug/L	0.50	0.25	1		01/08/14 20:32	108-67-8	
Vinyl chloride	**<0.20**	ug/L	0.40	0.20	1		01/08/14 20:32	75-01-4	
Xylene (Total)	**<0.75**	ug/L	1.5	0.75	1		01/08/14 20:32	1330-20-7	
m&p-Xylene	**<0.18**	ug/L	1.0	0.18	1		01/08/14 20:32	179601-23-1	
o-Xylene	**<0.21**	ug/L	0.50	0.21	1		01/08/14 20:32	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	75-125		1		01/08/14 20:32	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		01/08/14 20:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%.	75-125		1		01/08/14 20:32	17060-07-0	

Sample: TRIP BLANK **Lab ID: 4090618008** Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	71-43-2	
Bromobenzene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:33	108-86-1	
Bromochloromethane	**<0.49**	ug/L	1.0	0.49	1		01/03/14 12:33	74-97-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: TRIP BLANK Lab ID: **4090618008** Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Bromodichloromethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 12:33	75-27-4	
Bromoform	**<0.33**	ug/L	1.0	0.33	1		01/03/14 12:33	75-25-2	
Bromomethane	**<0.43**	ug/L	5.0	0.43	1		01/03/14 12:33	74-83-9	
n-Butylbenzene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 12:33	104-51-8	
sec-Butylbenzene	**<0.60**	ug/L	5.0	0.60	1		01/03/14 12:33	135-98-8	
tert-Butylbenzene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 12:33	98-06-6	
Carbon tetrachloride	**<0.37**	ug/L	1.0	0.37	1		01/03/14 12:33	56-23-5	
Chlorobenzene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 12:33	108-90-7	
Chloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:33	75-00-3	
Chloroform	**<0.69**	ug/L	5.0	0.69	1		01/03/14 12:33	67-66-3	
Chloromethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 12:33	74-87-3	
2-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:33	95-49-8	
4-Chlorotoluene	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<1.5**	ug/L	5.0	1.5	1		01/03/14 12:33	96-12-8	
Dibromochloromethane	**<1.9**	ug/L	5.0	1.9	1		01/03/14 12:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.38**	ug/L	1.0	0.38	1		01/03/14 12:33	106-93-4	
Dibromomethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:33	74-95-3	
1,2-Dichlorobenzene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:33	95-50-1	
1,3-Dichlorobenzene	**<0.45**	ug/L	1.0	0.45	1		01/03/14 12:33	541-73-1	
1,4-Dichlorobenzene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 12:33	106-46-7	
Dichlorodifluoromethane	**<0.40**	ug/L	1.0	0.40	1		01/03/14 12:33	75-71-8	
1,1-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		01/03/14 12:33	75-34-3	
1,2-Dichloroethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:33	107-06-2	
1,1-Dichloroethene	**<0.43**	ug/L	1.0	0.43	1		01/03/14 12:33	75-35-4	
cis-1,2-Dichloroethene	**<0.42**	ug/L	1.0	0.42	1		01/03/14 12:33	156-59-2	
trans-1,2-Dichloroethene	**<0.37**	ug/L	1.0	0.37	1		01/03/14 12:33	156-60-5	
1,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	78-87-5	
1,3-Dichloropropane	**<0.46**	ug/L	1.0	0.46	1		01/03/14 12:33	142-28-9	
2,2-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	594-20-7	
1,1-Dichloropropene	**<0.51**	ug/L	1.0	0.51	1		01/03/14 12:33	563-58-6	
cis-1,3-Dichloropropene	**<0.29**	ug/L	1.0	0.29	1		01/03/14 12:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.30**	ug/L	1.0	0.30	1		01/03/14 12:33	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	100-41-4	
Hexachloro-1,3-butadiene	**<1.3**	ug/L	5.0	1.3	1		01/03/14 12:33	87-68-3	
Isopropylbenzene (Cumene)	**<0.34**	ug/L	1.0	0.34	1		01/03/14 12:33	98-82-8	
p-Isopropyltoluene	**<0.40**	ug/L	1.0	0.40	1		01/03/14 12:33	99-87-6	
Methylene Chloride	**<0.36**	ug/L	1.0	0.36	1		01/03/14 12:33	75-09-2	
Methyl-tert-butyl ether	**<0.49**	ug/L	1.0	0.49	1		01/03/14 12:33	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 12:33	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	103-65-1	
Styrene	**<0.35**	ug/L	1.0	0.35	1		01/03/14 12:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.45**	ug/L	1.0	0.45	1		01/03/14 12:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.38**	ug/L	1.0	0.38	1		01/03/14 12:33	79-34-5	
Tetrachloroethene	**<0.47**	ug/L	1.0	0.47	1		01/03/14 12:33	127-18-4	
Toluene	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:33	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Sample: TRIP BLANK Lab ID: **4090618008** Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,2,3-Trichlorobenzene	**<0.77**	ug/L	5.0	0.77	1		01/03/14 12:33	87-61-6	
1,2,4-Trichlorobenzene	**<2.5**	ug/L	5.0	2.5	1		01/03/14 12:33	120-82-1	
1,1,1-Trichloroethane	**<0.44**	ug/L	1.0	0.44	1		01/03/14 12:33	71-55-6	
1,1,2-Trichloroethane	**<0.39**	ug/L	1.0	0.39	1		01/03/14 12:33	79-00-5	
Trichloroethene	**<0.36**	ug/L	1.0	0.36	1		01/03/14 12:33	79-01-6	
Trichlorofluoromethane	**<0.48**	ug/L	1.0	0.48	1		01/03/14 12:33	75-69-4	
1,2,3-Trichloropropane	**<0.47**	ug/L	1.0	0.47	1		01/03/14 12:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/03/14 12:33	75-01-4	
m&p-Xylene	**<0.82**	ug/L	2.0	0.82	1		01/03/14 12:33	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/03/14 12:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	43-137		1		01/03/14 12:33	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		01/03/14 12:33	1868-53-7	
Toluene-d8 (S)	99	%	55-137		1		01/03/14 12:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

QC Batch: MSV/26090
QC Batch Method: EPA 524.2
Associated Lab Samples: 4090618007

Analysis Method: EPA 524.2
Analysis Description: 524.2 MSV

METHOD BLANK: 1605599
Associated Lab Samples: 4090618007

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.25	1.0	01/08/14 17:14	
1,1,1-Trichloroethane	ug/L	<0.25	0.50	01/08/14 17:14	
1,1,2,2-Tetrachloroethane	ug/L	<0.13	0.50	01/08/14 17:14	
1,1,2-Trichloroethane	ug/L	<0.25	0.50	01/08/14 17:14	
1,1-Dichloroethane	ug/L	<0.25	0.50	01/08/14 17:14	
1,1-Dichloroethene	ug/L	<0.24	0.50	01/08/14 17:14	
1,1-Dichloropropene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2,3-Trichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2,3-Trichloropropane	ug/L	<0.54	4.0	01/08/14 17:14	
1,2,4-Trichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2,4-Trimethylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	01/08/14 17:14	
1,2-Dibromoethane (EDB)	ug/L	<0.13	0.50	01/08/14 17:14	
1,2-Dichlorobenzene	ug/L	<0.092	0.50	01/08/14 17:14	
1,2-Dichloroethane	ug/L	<0.21	0.50	01/08/14 17:14	
1,2-Dichloropropane	ug/L	<0.20	4.0	01/08/14 17:14	
1,3,5-Trimethylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,3-Dichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,3-Dichloropropane	ug/L	<0.25	0.50	01/08/14 17:14	
1,4-Dichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
2,2-Dichloropropane	ug/L	<0.50	1.0	01/08/14 17:14	
2-Butanone (MEK)	ug/L	<2.5	5.0	01/08/14 17:14	
2-Chlorotoluene	ug/L	<0.23	0.50	01/08/14 17:14	
2-Hexanone	ug/L	<2.5	5.0	01/08/14 17:14	
2-Nitropropane	ug/L	<3.5	10.0	01/08/14 17:14	
4-Chlorotoluene	ug/L	<0.083	0.50	01/08/14 17:14	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	5.0	01/08/14 17:14	
Acetone	ug/L	<10.0	20.0	01/08/14 17:14	
Acrylonitrile	ug/L	<5.0	10.0	01/08/14 17:14	
Benzene	ug/L	<0.24	0.50	01/08/14 17:14	
Bromobenzene	ug/L	<0.13	0.50	01/08/14 17:14	
Bromochloromethane	ug/L	<0.50	1.0	01/08/14 17:14	
Bromodichloromethane	ug/L	<0.18	1.0	01/08/14 17:14	
Bromoform	ug/L	<2.0	4.0	01/08/14 17:14	
Bromomethane	ug/L	<2.0	4.0	01/08/14 17:14	
Carbon disulfide	ug/L	<0.22	1.0	01/08/14 17:14	
Carbon tetrachloride	ug/L	<0.31	1.0	01/08/14 17:14	
Chlorobenzene	ug/L	<0.24	0.50	01/08/14 17:14	
Chloroethane	ug/L	<0.50	1.0	01/08/14 17:14	
Chloroform	ug/L	<0.50	0.50	01/08/14 17:14	
Chloromethane	ug/L	<0.50	4.0	01/08/14 17:14	
cis-1,2-Dichloroethene	ug/L	<0.23	0.50	01/08/14 17:14	
cis-1,3-Dichloropropene	ug/L	<0.42	1.0	01/08/14 17:14	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

METHOD BLANK: 1605599 Matrix: Water
Associated Lab Samples: 4090618007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.25	1.0	01/08/14 17:14	
Dibromomethane	ug/L	<0.25	0.50	01/08/14 17:14	
Dichlorodifluoromethane	ug/L	<0.40	1.0	01/08/14 17:14	
Ethyl methacrylate	ug/L	<2.5	4.0	01/08/14 17:14	
Ethylbenzene	ug/L	<0.21	0.50	01/08/14 17:14	
Hexachloro-1,3-butadiene	ug/L	<0.50	1.0	01/08/14 17:14	
Isopropylbenzene (Cumene)	ug/L	<0.12	0.50	01/08/14 17:14	
m&p-Xylene	ug/L	<0.18	1.0	01/08/14 17:14	
Methyl methacrylate	ug/L	<2.3	5.0	01/08/14 17:14	
Methyl-tert-butyl ether	ug/L	<0.25	0.50	01/08/14 17:14	
Methylene Chloride	ug/L	<2.0	4.0	01/08/14 17:14	
n-Butylbenzene	ug/L	<0.24	0.50	01/08/14 17:14	
n-Propylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
Naphthalene	ug/L	<0.50	1.0	01/08/14 17:14	
o-Xylene	ug/L	<0.21	0.50	01/08/14 17:14	
p-Isopropyltoluene	ug/L	<0.25	0.50	01/08/14 17:14	
sec-Butylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
Styrene	ug/L	<0.24	0.50	01/08/14 17:14	
tert-Butylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
Tetrachloroethene	ug/L	<0.25	0.50	01/08/14 17:14	
Toluene	ug/L	<0.22	0.50	01/08/14 17:14	
Total Trihalomethanes (Calc.)	ug/L	<2.0	4.0	01/08/14 17:14	
trans-1,2-Dichloroethene	ug/L	<0.21	0.50	01/08/14 17:14	
trans-1,3-Dichloropropene	ug/L	<0.25	1.0	01/08/14 17:14	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	10.0	01/08/14 17:14	
Trichloroethene	ug/L	<0.13	0.50	01/08/14 17:14	
Trichlorofluoromethane	ug/L	<0.12	0.50	01/08/14 17:14	
Vinyl chloride	ug/L	<0.20	0.40	01/08/14 17:14	
Xylene (Total)	ug/L	<0.75	1.5	01/08/14 17:14	
1,2-Dichloroethane-d4 (S)	%.	96	75-125	01/08/14 17:14	
4-Bromofluorobenzene (S)	%.	100	75-125	01/08/14 17:14	
Toluene-d8 (S)	%.	98	75-125	01/08/14 17:14	

LABORATORY CONTROL SAMPLE & LCSD: 1605600 1605601

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.3	19.5	111	97	70-130	13	20	
1,1,1-Trichloroethane	ug/L	20	21.3	18.9	107	95	70-130	12	20	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	18.4	104	92	70-130	12	20	
1,1,2-Trichloroethane	ug/L	20	21.3	18.9	107	95	70-130	12	20	
1,1-Dichloroethane	ug/L	20	19.4	16.8	97	84	70-130	14	20	
1,1-Dichloroethene	ug/L	20	19.8	16.9	99	84	70-130	16	20	
1,1-Dichloropropene	ug/L	20	20.9	18.2	105	91	70-130	14	20	
1,2,3-Trichlorobenzene	ug/L	20	21.7	19.7	109	98	70-130	10	20	
1,2,3-Trichloropropane	ug/L	20	22.9	19.6	114	98	70-130	15	20	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

LABORATORY CONTROL SAMPLE & LCSD: 1605600 1605601

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trichlorobenzene	ug/L	20	22.6	19.2	113	96	70-130	16	20	
1,2,4-Trimethylbenzene	ug/L	20	20.6	18.8	103	94	70-130	9	20	
1,2-Dibromo-3-chloropropane	ug/L	50	63.7	56.2	127	112	70-130	13	20	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	18.6	105	93	70-130	12	20	
1,2-Dichlorobenzene	ug/L	20	19.7	18.1	99	90	70-130	9	20	
1,2-Dichloroethane	ug/L	20	19.4	17.6	97	88	70-130	9	20	
1,2-Dichloropropane	ug/L	20	20.9	18.5	104	92	70-130	12	20	
1,3,5-Trimethylbenzene	ug/L	20	20.2	18.3	101	91	70-130	10	20	
1,3-Dichlorobenzene	ug/L	20	20.3	18.6	102	93	70-130	9	20	
1,3-Dichloropropane	ug/L	20	20.5	18.0	102	90	70-130	13	20	
1,4-Dichlorobenzene	ug/L	20	20.3	18.7	101	93	70-130	8	20	
2,2-Dichloropropane	ug/L	20	22.2	18.6	111	93	70-130	17	20	
2-Butanone (MEK)	ug/L	100	104	90.8	104	91	70-130	13	20	
2-Chlorotoluene	ug/L	20	19.6	17.6	98	88	70-130	11	20	
2-Hexanone	ug/L	100	112	96.2	112	96	70-130	15	20	
2-Nitropropane	ug/L	100	116	99.0	116	99	70-130	16	20	
4-Chlorotoluene	ug/L	20	19.6	17.9	98	89	70-130	10	20	
4-Methyl-2-pentanone (MIBK)	ug/L	100	108	91.9	108	92	70-130	16	20	
Acetone	ug/L	100	117	101	117	101	70-130	15	20	
Acrylonitrile	ug/L	200	207	181	103	91	70-130	13	20	
Benzene	ug/L	20	19.9	17.5	99	88	70-130	13	20	
Bromobenzene	ug/L	20	20.8	18.3	104	92	70-130	12	20	
Bromochloromethane	ug/L	20	21.1	19.4	106	97	70-130	9	20	
Bromodichloromethane	ug/L	20	21.6	19.0	108	95	70-130	13	20	
Bromoform	ug/L	20	20.7	18.5	103	92	70-130	11	20	
Bromomethane	ug/L	20	20.6	18.8	103	94	70-130	9	20	
Carbon disulfide	ug/L	20	20.8	17.7	104	88	70-130	16	20	
Carbon tetrachloride	ug/L	20	21.1	18.2	105	91	70-130	15	20	
Chlorobenzene	ug/L	20	20.2	17.9	101	89	70-130	12	20	
Chloroethane	ug/L	20	20.4	18.5	102	93	70-130	9	20	
Chloroform	ug/L	20	20.2	17.2	101	86	70-130	16	20	
Chloromethane	ug/L	20	20.6	19.0	103	95	70-130	8	20	
cis-1,2-Dichloroethene	ug/L	20	19.4	16.7	97	84	70-130	15	20	
cis-1,3-Dichloropropene	ug/L	20	21.2	19.3	106	97	70-130	9	20	
Dibromochloromethane	ug/L	20	22.4	19.6	112	98	70-130	13	20	
Dibromomethane	ug/L	20	21.5	19.0	108	95	70-130	12	20	
Dichlorodifluoromethane	ug/L	20	16.6	14.6	83	73	70-130	13	20	
Ethyl methacrylate	ug/L	20	21.9	18.7	109	93	70-130	16	20	
Ethylbenzene	ug/L	20	19.9	17.4	100	87	70-130	14	20	
Hexachloro-1,3-butadiene	ug/L	20	22.6	19.1	113	95	70-130	17	20	
Isopropylbenzene (Cumene)	ug/L	20	20.7	18.2	103	91	70-130	13	20	
m&p-Xylene	ug/L	40	41.0	36.0	102	90	70-130	13	20	
Methyl methacrylate	ug/L	100	112	102	112	102	70-130	9	20	
Methyl-tert-butyl ether	ug/L	20	19.8	18.2	99	91	70-130	9	20	
Methylene Chloride	ug/L	20	20.2	18.3	101	91	70-130	10	20	
n-Butylbenzene	ug/L	20	21.4	18.9	107	95	70-130	12	20	
n-Propylbenzene	ug/L	20	19.7	17.7	99	89	70-130	11	20	
Naphthalene	ug/L	20	22.0	19.8	110	99	70-130	11	20	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

LABORATORY CONTROL SAMPLE & LCSD: 1605600 1605601

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
o-Xylene	ug/L	20	20.6	18.3	103	92	70-130	11	20	
p-Isopropyltoluene	ug/L	20	20.3	18.4	102	92	70-130	10	20	
sec-Butylbenzene	ug/L	20	21.0	18.7	105	93	70-130	12	20	
Styrene	ug/L	20	20.9	18.7	104	94	70-130	11	20	
tert-Butylbenzene	ug/L	20	21.0	18.6	105	93	70-130	12	20	
Tetrachloroethene	ug/L	20	21.0	17.7	105	89	70-130	17	20	
Toluene	ug/L	20	20.0	17.2	100	86	70-130	15	20	
Total Trihalomethanes (Calc.)	ug/L	80	84.8	74.3	106	93	70-130	13	20	
trans-1,2-Dichloroethene	ug/L	20	20.2	17.4	101	87	70-130	15	20	
trans-1,3-Dichloropropene	ug/L	20	22.4	20.2	112	101	70-130	11	20	
trans-1,4-Dichloro-2-butene	ug/L	50	56.4	50.1	113	100	70-130	12	20	
Trichloroethene	ug/L	20	21.3	18.3	107	91	70-130	15	20	
Trichlorofluoromethane	ug/L	20	19.6	17.4	98	87	70-130	12	20	
Vinyl chloride	ug/L	20	20.8	18.7	104	93	70-130	11	20	
Xylene (Total)	ug/L	60	61.5	54.3	103	91	70-130	12	20	
1,2-Dichloroethane-d4 (S)	%.				97	98	75-125			
4-Bromofluorobenzene (S)	%.				100	100	75-125			
Toluene-d8 (S)	%.				101	99	75-125			

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

QC Batch: MSV/22929 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618006, 4090618008

METHOD BLANK: 918376 Matrix: Water
Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618006, 4090618008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.45	1.0	01/03/14 06:50	
1,1,1-Trichloroethane	ug/L	<0.44	1.0	01/03/14 06:50	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	1.0	01/03/14 06:50	
1,1,2-Trichloroethane	ug/L	<0.39	1.0	01/03/14 06:50	
1,1-Dichloroethane	ug/L	<0.28	1.0	01/03/14 06:50	
1,1-Dichloroethene	ug/L	<0.43	1.0	01/03/14 06:50	
1,1-Dichloropropene	ug/L	<0.51	1.0	01/03/14 06:50	
1,2,3-Trichlorobenzene	ug/L	<0.77	5.0	01/03/14 06:50	
1,2,3-Trichloropropane	ug/L	<0.47	1.0	01/03/14 06:50	
1,2,4-Trichlorobenzene	ug/L	<2.5	5.0	01/03/14 06:50	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/03/14 06:50	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	01/03/14 06:50	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	01/03/14 06:50	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	01/03/14 06:50	
1,2-Dichloroethane	ug/L	<0.48	1.0	01/03/14 06:50	
1,2-Dichloropropane	ug/L	<0.50	1.0	01/03/14 06:50	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/03/14 06:50	
1,3-Dichlorobenzene	ug/L	<0.45	1.0	01/03/14 06:50	
1,3-Dichloropropane	ug/L	<0.46	1.0	01/03/14 06:50	
1,4-Dichlorobenzene	ug/L	<0.43	1.0	01/03/14 06:50	
2,2-Dichloropropane	ug/L	<0.50	1.0	01/03/14 06:50	
2-Chlorotoluene	ug/L	<0.48	1.0	01/03/14 06:50	
4-Chlorotoluene	ug/L	<0.48	1.0	01/03/14 06:50	
Benzene	ug/L	<0.50	1.0	01/03/14 06:50	
Bromobenzene	ug/L	<0.48	1.0	01/03/14 06:50	
Bromochloromethane	ug/L	<0.49	1.0	01/03/14 06:50	
Bromodichloromethane	ug/L	<0.45	1.0	01/03/14 06:50	
Bromoform	ug/L	<0.33	1.0	01/03/14 06:50	
Bromomethane	ug/L	<0.43	5.0	01/03/14 06:50	
Carbon tetrachloride	ug/L	<0.37	1.0	01/03/14 06:50	
Chlorobenzene	ug/L	<0.36	1.0	01/03/14 06:50	
Chloroethane	ug/L	<0.44	1.0	01/03/14 06:50	
Chloroform	ug/L	<0.69	5.0	01/03/14 06:50	
Chloromethane	ug/L	<0.39	1.0	01/03/14 06:50	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	01/03/14 06:50	
cis-1,3-Dichloropropene	ug/L	<0.29	1.0	01/03/14 06:50	
Dibromochloromethane	ug/L	<1.9	5.0	01/03/14 06:50	
Dibromomethane	ug/L	<0.48	1.0	01/03/14 06:50	
Dichlorodifluoromethane	ug/L	<0.40	1.0	01/03/14 06:50	
Diisopropyl ether	ug/L	<0.50	1.0	01/03/14 06:50	
Ethylbenzene	ug/L	<0.50	1.0	01/03/14 06:50	
Hexachloro-1,3-butadiene	ug/L	<1.3	5.0	01/03/14 06:50	
Isopropylbenzene (Cumene)	ug/L	<0.34	1.0	01/03/14 06:50	

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

METHOD BLANK: 918376 Matrix: Water
Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618006, 4090618008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.82	2.0	01/03/14 06:50	
Methyl-tert-butyl ether	ug/L	<0.49	1.0	01/03/14 06:50	
Methylene Chloride	ug/L	<0.36	1.0	01/03/14 06:50	
n-Butylbenzene	ug/L	<0.40	1.0	01/03/14 06:50	
n-Propylbenzene	ug/L	<0.50	1.0	01/03/14 06:50	
Naphthalene	ug/L	<2.5	5.0	01/03/14 06:50	
o-Xylene	ug/L	<0.50	1.0	01/03/14 06:50	
p-Isopropyltoluene	ug/L	<0.40	1.0	01/03/14 06:50	
sec-Butylbenzene	ug/L	<0.60	5.0	01/03/14 06:50	
Styrene	ug/L	<0.35	1.0	01/03/14 06:50	
tert-Butylbenzene	ug/L	<0.42	1.0	01/03/14 06:50	
Tetrachloroethene	ug/L	<0.47	1.0	01/03/14 06:50	
Toluene	ug/L	<0.44	1.0	01/03/14 06:50	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	01/03/14 06:50	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	01/03/14 06:50	
Trichloroethene	ug/L	<0.36	1.0	01/03/14 06:50	
Trichlorofluoromethane	ug/L	<0.48	1.0	01/03/14 06:50	
Vinyl chloride	ug/L	<0.18	1.0	01/03/14 06:50	
4-Bromofluorobenzene (S)	%	90	43-137	01/03/14 06:50	
Dibromofluoromethane (S)	%	107	70-130	01/03/14 06:50	
Toluene-d8 (S)	%	98	55-137	01/03/14 06:50	

LABORATORY CONTROL SAMPLE & LCSD: 918377 918378

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	52.4	105	105	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	51.7	104	103	70-130	1	20	
1,1,2-Trichloroethane	ug/L	50	53.6	51.9	107	104	70-130	3	20	
1,1-Dichloroethane	ug/L	50	52.1	52.1	104	104	70-146	0	20	
1,1-Dichloroethene	ug/L	50	56.5	57.0	113	114	70-130	1	20	
1,2,4-Trichlorobenzene	ug/L	50	51.5	50.0	103	100	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	45.5	44.8	91	90	46-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	51.8	104	104	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	52.3	51.7	105	103	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.4	53.8	107	108	70-144	1	20	
1,2-Dichloropropane	ug/L	50	56.5	54.6	113	109	70-136	3	20	
1,3-Dichlorobenzene	ug/L	50	50.3	49.6	101	99	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	50.9	50.4	102	101	70-130	1	20	
Benzene	ug/L	50	51.5	51.6	103	103	70-137	0	20	
Bromodichloromethane	ug/L	50	54.4	54.2	109	108	70-133	0	20	
Bromoform	ug/L	50	51.9	50.4	104	101	59-130	3	20	
Bromomethane	ug/L	50	64.7	64.1	129	128	41-148	1	20	
Carbon tetrachloride	ug/L	50	55.6	56.5	111	113	70-154	2	20	
Chlorobenzene	ug/L	50	54.2	53.7	108	107	70-130	1	20	
Chloroethane	ug/L	50	59.3	59.4	119	119	70-139	0	20	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

LABORATORY CONTROL SAMPLE & LCSD: 918377 918378

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	52.5	51.8	105	104	70-130	1	20	
Chloromethane	ug/L	50	55.3	55.9	111	112	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	50	48.1	48.4	96	97	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	48.0	47.9	96	96	70-136	0	20	
Dibromochloromethane	ug/L	50	51.8	51.2	104	102	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	57.0	56.6	114	113	20-157	1	20	
Ethylbenzene	ug/L	50	56.8	55.9	114	112	70-130	2	20	
Isopropylbenzene (Cumene)	ug/L	50	58.4	58.0	117	116	70-130	1	20	
m&p-Xylene	ug/L	100	116	114	116	114	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	51.9	52.4	104	105	59-141	1	20	
Methylene Chloride	ug/L	50	55.8	55.5	112	111	70-130	0	20	
o-Xylene	ug/L	50	57.6	56.8	115	114	70-130	1	20	
Styrene	ug/L	50	56.0	55.6	112	111	70-130	1	20	
Tetrachloroethene	ug/L	50	54.9	53.4	110	107	70-130	3	20	
Toluene	ug/L	50	54.8	52.7	110	105	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	50	54.0	53.0	108	106	70-130	2	20	
trans-1,3-Dichloropropene	ug/L	50	48.0	48.5	96	97	55-135	1	20	
Trichloroethene	ug/L	50	54.7	54.1	109	108	70-130	1	20	
Trichlorofluoromethane	ug/L	50	57.4	57.3	115	115	50-150	0	20	
Vinyl chloride	ug/L	50	62.2	61.7	124	123	61-143	1	20	
4-Bromofluorobenzene (S)	%				102	102	43-137			
Dibromofluoromethane (S)	%				101	102	70-130			
Toluene-d8 (S)	%				98	99	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 918487 918488

Parameter	Units	4090631001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	53.0	54.0	106	108	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	53.4	53.6	107	107	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	53.5	51.7	107	103	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	51.9	52.0	104	104	70-146	0	20	
1,1-Dichloroethene	ug/L	<0.43	50	50	54.5	54.6	109	109	70-130	0	20	
1,2,4-Trichlorobenzene	ug/L	<2.5	50	50	51.9	51.1	104	102	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	49.2	46.7	98	93	46-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	<0.38	50	50	52.9	52.1	106	104	70-130	2	20	
1,2-Dichlorobenzene	ug/L	<0.44	50	50	52.4	52.4	105	105	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.48	50	50	53.3	54.1	107	108	70-146	1	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	56.4	56.4	113	113	70-136	0	20	
1,3-Dichlorobenzene	ug/L	<0.45	50	50	50.9	50.6	102	101	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.43	50	50	51.4	51.1	103	102	70-130	1	20	
Benzene	ug/L	<0.50	50	50	51.3	52.1	103	104	70-137	2	20	
Bromodichloromethane	ug/L	<0.45	50	50	55.3	54.6	111	109	70-133	1	20	
Bromoform	ug/L	<0.33	50	50	51.1	48.7	102	97	57-130	5	20	
Bromomethane	ug/L	<0.43	50	50	67.0	66.7	134	133	41-148	0	20	
Carbon tetrachloride	ug/L	<0.37	50	50	56.9	56.5	114	113	70-154	1	20	
Chlorobenzene	ug/L	<0.36	50	50	54.9	54.1	110	108	70-130	1	20	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 918487 918488

Parameter	Units	4090631001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloroethane	ug/L	<0.44	50	50	59.3	60.0	119	120	70-140	1	20	
Chloroform	ug/L	<0.69	50	50	51.7	52.4	103	105	70-130	1	20	
Chloromethane	ug/L	<0.39	50	50	54.8	54.0	110	108	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	7.5	50	50	56.7	57.4	98	100	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	<0.29	50	50	50.2	48.0	100	96	70-136	5	20	
Dibromochloromethane	ug/L	<1.9	50	50	51.3	50.2	103	100	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	55.2	55.6	110	111	10-157	1	20	
Ethylbenzene	ug/L	<0.50	50	50	54.1	51.8	108	104	70-130	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.34	50	50	56.7	54.5	113	109	70-130	4	20	
m&p-Xylene	ug/L	<0.82	100	100	98.4	87.9	98	88	70-130	11	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	52.4	53.0	105	106	59-141	1	20	
Methylene Chloride	ug/L	<0.36	50	50	55.6	56.6	111	113	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	50.3	45.7	101	91	70-130	10	20	
Styrene	ug/L	<0.35	50	50	18.0	12.4	36	25	35-164	37	20	M1,R1
Tetrachloroethene	ug/L	0.85J	50	50	55.6	54.9	109	108	70-130	1	20	
Toluene	ug/L	<0.44	50	50	52.4	51.1	105	102	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	0.60J	50	50	52.8	53.1	104	105	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	<0.30	50	50	46.7	45.1	93	90	55-137	3	20	
Trichloroethene	ug/L	31.3	50	50	87.3	85.2	112	108	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.48	50	50	57.5	56.9	115	114	50-150	1	20	
Vinyl chloride	ug/L	<0.18	50	50	61.4	61.4	123	123	59-144	0	20	
4-Bromofluorobenzene (S)	%						102	101	43-137			
Dibromofluoromethane (S)	%						102	103	70-130			
Toluene-d8 (S)	%						98	96	55-137			

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

QC Batch: OEXT/21100 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618007

METHOD BLANK: 918284 Matrix: Water
Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0070	0.050	01/03/14 08:34	
2-Methylnaphthalene	ug/L	<0.0068	0.050	01/03/14 08:34	
Acenaphthene	ug/L	<0.0064	0.050	01/03/14 08:34	
Acenaphthylene	ug/L	<0.0053	0.050	01/03/14 08:34	
Anthracene	ug/L	<0.0062	0.050	01/03/14 08:34	
Benzo(a)anthracene	ug/L	<0.0065	0.050	01/03/14 08:34	
Benzo(a)pyrene	ug/L	<0.011	0.050	01/03/14 08:34	
Benzo(b)fluoranthene	ug/L	<0.0083	0.050	01/03/14 08:34	
Benzo(g,h,i)perylene	ug/L	<0.0090	0.050	01/03/14 08:34	
Benzo(k)fluoranthene	ug/L	<0.012	0.050	01/03/14 08:34	
Chrysene	ug/L	<0.0080	0.050	01/03/14 08:34	
Dibenz(a,h)anthracene	ug/L	<0.0074	0.050	01/03/14 08:34	
Fluoranthene	ug/L	<0.0058	0.050	01/03/14 08:34	
Fluorene	ug/L	<0.0072	0.050	01/03/14 08:34	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0095	0.050	01/03/14 08:34	
Naphthalene	ug/L	<0.0051	0.050	01/03/14 08:34	
Phenanthrene	ug/L	0.0066J	0.050	01/03/14 08:34	
Pyrene	ug/L	<0.0059	0.050	01/03/14 08:34	
2-Fluorobiphenyl (S)	%	83	39-130	01/03/14 08:34	
Terphenyl-d14 (S)	%	127	73-155	01/03/14 08:34	

LABORATORY CONTROL SAMPLE: 918285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.17	84	23-130	
2-Methylnaphthalene	ug/L	.2	0.17	86	22-130	
Acenaphthene	ug/L	.2	0.16	82	31-130	
Acenaphthylene	ug/L	.2	0.16	82	31-130	
Anthracene	ug/L	.2	0.19	95	26-130	
Benzo(a)anthracene	ug/L	.2	0.20	101	47-130	
Benzo(a)pyrene	ug/L	.2	0.20	101	41-130	
Benzo(b)fluoranthene	ug/L	.2	0.24	122	37-130	
Benzo(g,h,i)perylene	ug/L	.2	0.22	110	37-130	
Benzo(k)fluoranthene	ug/L	.2	0.23	114	51-130	
Chrysene	ug/L	.2	0.22	109	50-130	
Dibenz(a,h)anthracene	ug/L	.2	0.19	93	34-130	
Fluoranthene	ug/L	.2	0.21	103	49-130	
Fluorene	ug/L	.2	0.18	90	30-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.21	106	36-130	
Naphthalene	ug/L	.2	0.16	79	24-130	
Phenanthrene	ug/L	.2	0.21	103	39-130	

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

LABORATORY CONTROL SAMPLE: 918285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	.2	0.21	107	47-130	
2-Fluorobiphenyl (S)	%			81	39-130	
Terphenyl-d14 (S)	%			114	73-155	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 918286 918287

Parameter	Units	4090618002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0070	.2	.2	0.11	0.098	54	46	10-130	14	49	
2-Methylnaphthalene	ug/L	<0.0068	.2	.2	0.13	0.11	62	52	20-130	16	50	
Acenaphthene	ug/L	<0.0064	.2	.2	0.14	0.14	69	70	23-130	2	34	
Acenaphthylene	ug/L	<0.0053	.2	.2	0.14	0.14	69	71	31-130	3	37	
Anthracene	ug/L	<0.0062	.2	.2	0.18	0.17	89	83	21-130	7	35	
Benzo(a)anthracene	ug/L	0.0068J	.2	.2	0.21	0.20	102	99	10-166	3	27	
Benzo(a)pyrene	ug/L	<0.011	.2	.2	0.19	0.18	93	89	10-138	4	28	
Benzo(b)fluoranthene	ug/L	0.0091J	.2	.2	0.22	0.22	107	106	10-149	2	27	
Benzo(g,h,i)perylene	ug/L	<0.0090	.2	.2	0.16	0.15	75	72	11-151	4	29	
Benzo(k)fluoranthene	ug/L	<0.012	.2	.2	0.22	0.22	107	105	17-138	2	26	
Chrysene	ug/L	<0.0080	.2	.2	0.22	0.20	109	95	20-134	13	26	
Dibenz(a,h)anthracene	ug/L	<0.0074	.2	.2	0.16	0.15	77	73	17-156	5	30	
Fluoranthene	ug/L	<0.0058	.2	.2	0.20	0.19	95	93	40-130	2	26	
Fluorene	ug/L	<0.0072	.2	.2	0.17	0.17	81	81	30-130	0	34	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0095	.2	.2	0.15	0.15	74	71	12-157	4	29	
Naphthalene	ug/L	0.0095J	.2	.2	0.15	0.12	70	54	24-130	25	40	
Phenanthrene	ug/L	0.011J	.2	.2	0.21	0.19	98	92	28-130	5	30	
Pyrene	ug/L	0.0065J	.2	.2	0.21	0.20	102	99	16-145	3	25	
2-Fluorobiphenyl (S)	%						70	72	39-130			
Terphenyl-d14 (S)	%						121	118	73-155			

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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
PASI-M	Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSSV/6398

[IP]	Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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

Project: P101399.40 DA SWAMP
Pace Project No.: 4090618

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4090618001	MW-1	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618002	MW-3	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618003	MW-4	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618004	MW-2	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618005	MW-5	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618007	POTABLE	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618007	POTABLE	EPA 524.2	MSV/26090		
4090618001	MW-1	EPA 8260	MSV/22929		
4090618002	MW-3	EPA 8260	MSV/22929		
4090618003	MW-4	EPA 8260	MSV/22929		
4090618004	MW-2	EPA 8260	MSV/22929		
4090618005	MW-5	EPA 8260	MSV/22929		
4090618006	SUMP	EPA 8260	MSV/22929		
4090618008	TRIP BLANK	EPA 8260	MSV/22929		

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Endeavor Env. Science

Project #: WO#: 4090618

4090618

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

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals Intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals Intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

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

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

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 12/3/13
Initials: MV

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.
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. TPH waters sampled 12/27/13 12/3/13 MV
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.
-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	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): covered		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 12-3-13

F-GB-C-031-Rev.02 (28Oct2013) SCUR Form

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK
ENDEAVOR ENV. SERVICES, INC.
2280-B SALSCHEIDER CT
GREEN BAY, WI 54313

Report Date *11-Feb-14*

Project Name DA SWAMP SEYMOUR, WI **Invoice #** E26472
Project # P101399.40

Lab Code 5026472A
Sample ID MW-10
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 1.8	ug/l	1.8	5.6	100	M8270D	2/5/2014	2/8/2014	MDK	I
Acenaphthylene	< 2	ug/l	2	6.3	100	M8270D	2/5/2014	2/8/2014	MDK	I
Anthracene	< 1.8	ug/l	1.8	5.7	100	M8270D	2/5/2014	2/8/2014	MDK	I
Benzo(a)anthracene	< 2.3	ug/l	2.3	7.3	100	M8270D	2/5/2014	2/8/2014	MDK	I
Benzo(a)pyrene	< 2	ug/l	2	6.3	100	M8270D	2/5/2014	2/8/2014	MDK	I
Benzo(b)fluoranthene	< 1.9	ug/l	1.9	6	100	M8270D	2/5/2014	2/8/2014	MDK	I
Benzo(g,h,i)perylene	< 2.4	ug/l	2.4	7.6	100	M8270D	2/5/2014	2/8/2014	MDK	I
Benzo(k)fluoranthene	< 2.7	ug/l	2.7	8.7	100	M8270D	2/5/2014	2/8/2014	MDK	I
Chrysene	< 1.8	ug/l	1.8	5.8	100	M8270D	2/5/2014	2/8/2014	MDK	I
Dibenzo(a,h)anthracene	< 2.8	ug/l	2.8	9.2	100	M8270D	2/5/2014	2/8/2014	MDK	I
Fluoranthene	< 2.2	ug/l	2.2	6.9	100	M8270D	2/5/2014	2/8/2014	MDK	I
Fluorene	< 2.2	ug/l	2.2	6.9	100	M8270D	2/5/2014	2/8/2014	MDK	I
Indeno(1,2,3-cd)pyrene	< 2.7	ug/l	2.7	8.6	100	M8270D	2/5/2014	2/8/2014	MDK	I
1-Methyl naphthalene	12.6	ug/l	2.1	6.5	100	M8270D	2/5/2014	2/8/2014	MDK	I
2-Methyl naphthalene	18.3	ug/l	2.4	7.6	100	M8270D	2/5/2014	2/8/2014	MDK	I
Naphthalene	179	ug/l	2.3	7.3	100	M8270D	2/5/2014	2/8/2014	MDK	I
Phenanthrene	< 1.8	ug/l	1.8	5.7	100	M8270D	2/5/2014	2/8/2014	MDK	I
Pyrene	< 2.2	ug/l	2.2	7.1	100	M8270D	2/5/2014	2/8/2014	MDK	I
VOC's										
Benzene	600	ug/l	12	38.5	50	8260B		2/6/2014	CJR	I
Bromobenzene	< 16	ug/l	16	50	50	8260B		2/6/2014	CJR	I
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B		2/6/2014	CJR	I
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		2/6/2014	CJR	I
tert-Butylbenzene	< 18	ug/l	18	60	50	8260B		2/6/2014	CJR	I
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		2/6/2014	CJR	I
n-Butylbenzene	24 "J"	ug/l	17.5	55	50	8260B		2/6/2014	CJR	I
Carbon Tetrachloride	< 16.5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	I
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		2/6/2014	CJR	I
Chloroethane	< 31.5	ug/l	31.5	100	50	8260B		2/6/2014	CJR	I
Chloroform	< 14	ug/l	14	44	50	8260B		2/6/2014	CJR	I
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		2/6/2014	CJR	I
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		2/6/2014	CJR	I

Project Name DA SWAMP SEYMOUR, WI
Project # P101399.40

Invoice # E26472

Lab Code 5026472A
Sample ID MW-10
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		2/6/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		2/6/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		2/6/2014	CJR	1
1,4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		2/6/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		2/6/2014	CJR	1
1,2-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		2/6/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		2/6/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		2/6/2014	CJR	1
1,1-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		2/6/2014	CJR	1
1,1-Dichloroethene	< 20	ug/l	20	65	50	8260B		2/6/2014	CJR	1
cis-1,2-Dichloroethene	< 19	ug/l	19	60	50	8260B		2/6/2014	CJR	1
trans-1,2-Dichloroethene	< 17.5	ug/l	17.5	55	50	8260B		2/6/2014	CJR	1
1,2-Dichloropropane	< 16	ug/l	16	50	50	8260B		2/6/2014	CJR	1
2,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		2/6/2014	CJR	8
1,3-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		2/6/2014	CJR	1
Di-isopropyl ether	< 11.5	ug/l	11.5	36.5	50	8260B		2/6/2014	CJR	1
EDB (1,2-Dibromoethane)	< 22	ug/l	22	70	50	8260B		2/6/2014	CJR	1
Ethylbenzene	1800	ug/l	27.5	85	50	8260B		2/6/2014	CJR	1
Hexachlorobutadiene	< 75	ug/l	75	240	50	8260B		2/6/2014	CJR	1
Isopropylbenzene	59	ug/l	15	48	50	8260B		2/6/2014	CJR	1
p-Isopropyltoluene	< 15.5	ug/l	15.5	49	50	8260B		2/6/2014	CJR	1
Methylene chloride	< 25	ug/l	25	80	50	8260B		2/6/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	11.5	37	50	8260B		2/6/2014	CJR	1
Naphthalene	430	ug/l	85	275	50	8260B		2/6/2014	CJR	8 29
n-Propylbenzene	182	ug/l	12.5	40.5	50	8260B		2/6/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	22.5	70	50	8260B		2/6/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	1
Toluene	242	ug/l	34.5	110	50	8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	49	155	50	8260B		2/6/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l	90	290	50	8260B		2/6/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	50	50	8260B		2/6/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	55	50	8260B		2/6/2014	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5	50	50	8260B		2/6/2014	CJR	1
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		2/6/2014	CJR	1
1,2,4-Trimethylbenzene	1540	ug/l	110	345	50	8260B		2/6/2014	CJR	1
1,3,5-Trimethylbenzene	380	ug/l	70	225	50	8260B		2/6/2014	CJR	1
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		2/6/2014	CJR	1
m&p-Xylene	3900	ug/l	34.5	110	50	8260B		2/6/2014	CJR	1
o-Xylene	1710	ug/l	31.5	100	50	8260B		2/6/2014	CJR	1
SUR - Dibromofluoromethane	96	REC %			50	8260B		2/6/2014	CJR	1
SUR - Toluene-d8	104	REC %			50	8260B		2/6/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			50	8260B		2/6/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			50	8260B		2/6/2014	CJR	1

Project Name DA SWAMP SEYMOUR, WI
Project # P101399.40

Invoice # E26472

Lab Code 5026472B
Sample ID MW-11
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.018	ug/l	0.018	0.056	1	M8270D	2/5/2014	2/6/2014	MDK	1
Acenaphthylene	< 0.02	ug/l	0.02	0.063	1	M8270D	2/5/2014	2/6/2014	MDK	1
Anthracene	< 0.018	ug/l	0.018	0.057	1	M8270D	2/5/2014	2/6/2014	MDK	1
Benzo(a)anthracene	0.042 "J"	ug/l	0.023	0.073	1	M8270D	2/5/2014	2/6/2014	MDK	1
Benzo(a)pyrene	< 0.02	ug/l	0.02	0.063	1	M8270D	2/5/2014	2/6/2014	MDK	1
Benzo(b)fluoranthene	0.025 "J"	ug/l	0.019	0.06	1	M8270D	2/5/2014	2/6/2014	MDK	1
Benzo(g,h,i)perylene	< 0.024	ug/l	0.024	0.076	1	M8270D	2/5/2014	2/6/2014	MDK	1
Benzo(k)fluoranthene	< 0.027	ug/l	0.027	0.087	1	M8270D	2/5/2014	2/6/2014	MDK	1
Chrysene	0.02 "J"	ug/l	0.018	0.058	1	M8270D	2/5/2014	2/6/2014	MDK	1
Dibenzo(a,h)anthracene	< 0.028	ug/l	0.028	0.092	1	M8270D	2/5/2014	2/6/2014	MDK	1
Fluoranthene	< 0.022	ug/l	0.022	0.069	1	M8270D	2/5/2014	2/6/2014	MDK	1
Fluorene	< 0.022	ug/l	0.022	0.069	1	M8270D	2/5/2014	2/6/2014	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.027	ug/l	0.027	0.086	1	M8270D	2/5/2014	2/6/2014	MDK	1
1-Methyl naphthalene	0.023 "J"	ug/l	0.021	0.065	1	M8270D	2/5/2014	2/6/2014	MDK	1
2-Methyl naphthalene	< 0.024	ug/l	0.024	0.076	1	M8270D	2/5/2014	2/6/2014	MDK	1
Naphthalene	0.194	ug/l	0.023	0.073	1	M8270D	2/5/2014	2/6/2014	MDK	1
Phenanthrene	< 0.018	ug/l	0.018	0.057	1	M8270D	2/5/2014	2/6/2014	MDK	1
Pyrene	0.025 "J"	ug/l	0.022	0.071	1	M8270D	2/5/2014	2/6/2014	MDK	1
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/6/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/6/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/6/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/6/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/6/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/6/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/6/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/6/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/6/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/6/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/6/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/6/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/6/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/6/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/6/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/6/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/6/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/6/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/6/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/6/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/6/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/6/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/6/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/6/2014	CJR	1
Methyl tert-butyl ether (MTBE)	0.28 "J"	ug/l	0.23	0.74	1	8260B		2/6/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/6/2014	CJR	8 29
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/6/2014	CJR	1

Project Name DA SWAMP SEYMOUR, WI
Project # P101399.40

Invoice # E26472

Lab Code 5026472B
Sample ID MW-11
Sample Matrix water
Sample Date 2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/6/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/6/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/6/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/6/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/6/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/6/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/6/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/6/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/6/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/6/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/6/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/6/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/6/2014	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		2/6/2014	CJR	1

Project Name DA SWAMP SEYMOUR, WI
Project # P101399.40

Invoice # E26472

Lab Code 5026472C
Sample ID TRIP BLANKS
Sample Matrix water
Sample Date 2/4/2014

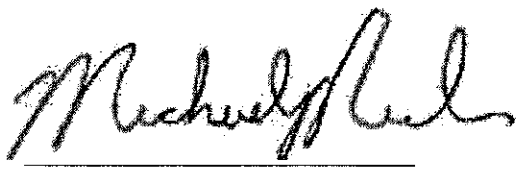
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	1
Bromobenzene	< 0.32	ug/l	0.32	1	1	8260B		2/6/2014	CJR	1
Bromodichloromethane	< 0.37	ug/l	0.37	1.2	1	8260B		2/6/2014	CJR	1
Bromoform	< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
tert-Butylbenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	1
sec-Butylbenzene	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
n-Butylbenzene	< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
Carbon Tetrachloride	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	1
Chloroethane	< 0.63	ug/l	0.63	2	1	8260B		2/6/2014	CJR	1
Chloroform	< 0.28	ug/l	0.28	0.88	1	8260B		2/6/2014	CJR	1
Chloromethane	< 0.81	ug/l	0.81	2.6	1	8260B		2/6/2014	CJR	1
2-Chlorotoluene	< 0.21	ug/l	0.21	0.66	1	8260B		2/6/2014	CJR	1
4-Chlorotoluene	< 0.21	ug/l	0.21	0.68	1	8260B		2/6/2014	CJR	1
1,2-Dibromo-3-chloropropane	< 0.88	ug/l	0.88	2.8	1	8260B		2/6/2014	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.7	1	8260B		2/6/2014	CJR	1
1,4-Dichlorobenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/6/2014	CJR	1
1,3-Dichlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		2/6/2014	CJR	1
1,2-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	1
Dichlorodifluoromethane	< 0.44	ug/l	0.44	1.4	1	8260B		2/6/2014	CJR	1
1,2-Dichloroethane	< 0.41	ug/l	0.41	1.3	1	8260B		2/6/2014	CJR	1
1,1-Dichloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		2/6/2014	CJR	1
1,1-Dichloroethene	< 0.4	ug/l	0.4	1.3	1	8260B		2/6/2014	CJR	1
cis-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	8260B		2/6/2014	CJR	1
trans-1,2-Dichloroethene	< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
1,2-Dichloropropane	< 0.32	ug/l	0.32	1	1	8260B		2/6/2014	CJR	1
2,2-Dichloropropane	< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	8
1,3-Dichloropropane	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
Di-isopropyl ether	< 0.23	ug/l	0.23	0.73	1	8260B		2/6/2014	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.44	1.4	1	8260B		2/6/2014	CJR	1
Ethylbenzene	< 0.55	ug/l	0.55	1.7	1	8260B		2/6/2014	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	1.5	4.8	1	8260B		2/6/2014	CJR	1
Isopropylbenzene	< 0.3	ug/l	0.3	0.96	1	8260B		2/6/2014	CJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.31	0.98	1	8260B		2/6/2014	CJR	1
Methylene chloride	< 0.5	ug/l	0.5	1.6	1	8260B		2/6/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	0.74	1	8260B		2/6/2014	CJR	1
Naphthalene	< 1.7	ug/l	1.7	5.5	1	8260B		2/6/2014	CJR	8 29
n-Propylbenzene	< 0.25	ug/l	0.25	0.81	1	8260B		2/6/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/6/2014	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	1	8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/6/2014	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/6/2014	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1	8260B		2/6/2014	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/6/2014	CJR	1
1,2,4-Trimethylbenzene	< 2.2	ug/l	2.2	6.9	1	8260B		2/6/2014	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		2/6/2014	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.57	1	8260B		2/6/2014	CJR	1
m&p-Xylene	< 0.69	ug/l	0.69	2.2	1	8260B		2/6/2014	CJR	1
o-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/6/2014	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		2/6/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		2/6/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/6/2014	CJR	1
SUR - Dibromofluoromethane	97	REC %			1	8260B		2/6/2014	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
8	Closing calibration standard not within established limits.
29	Closing continuing calibration verification failed due to instrument carryover.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



Pace Analytical Services, LLC
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March 22, 2018

Joe Ramcheck
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

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

Enclosures

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CERTIFICATIONS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165904001	MW-1	Water	03/12/18 10:50	03/14/18 17:55
40165904002	MW-3	Water	03/12/18 11:10	03/14/18 17:55
40165904003	MW-4	Water	03/12/18 11:25	03/14/18 17:55
40165904004	PZ-1	Water	03/12/18 11:42	03/14/18 17:55
40165904005	MW-21	Water	03/12/18 12:05	03/14/18 17:55
40165904006	MW-20	Water	03/12/18 12:30	03/14/18 17:55
40165904007	MW-11	Water	03/12/18 13:02	03/14/18 17:55
40165904008	MW-10	Water	03/12/18 13:15	03/14/18 17:55
40165904009	MW-2	Water	03/12/18 13:35	03/14/18 17:55
40165904010	MW-5R	Water	03/12/18 13:50	03/14/18 17:55
40165904011	TRIP BLANK	Water	03/12/18 00:00	03/14/18 17:55

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SAMPLE ANALYTE COUNT

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165904001	MW-1	WI MOD GRO	ALD	10	PASI-G
40165904002	MW-3	WI MOD GRO	ALD	10	PASI-G
40165904003	MW-4	WI MOD GRO	ALD	10	PASI-G
40165904004	PZ-1	WI MOD GRO	ALD	10	PASI-G
40165904005	MW-21	WI MOD GRO	ALD	10	PASI-G
40165904006	MW-20	WI MOD GRO	ALD	10	PASI-G
40165904007	MW-11	WI MOD GRO	ALD	10	PASI-G
40165904008	MW-10	WI MOD GRO	ALD	10	PASI-G
40165904009	MW-2	WI MOD GRO	ALD	10	PASI-G
40165904010	MW-5R	WI MOD GRO	ALD	10	PASI-G
40165904011	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165904004	**PZ-1**					
WI MOD GRO	Ethylbenzene	0.48J	ug/L	1.0	03/16/18 14:10	
WI MOD GRO	Methyl-tert-butyl ether	0.85J	ug/L	1.0	03/16/18 14:10	
WI MOD GRO	Naphthalene	1.2	ug/L	1.0	03/16/18 14:10	
WI MOD GRO	1,2,4-Trimethylbenzene	0.70J	ug/L	1.0	03/16/18 14:10	
40165904005	**MW-21**					
WI MOD GRO	Ethylbenzene	0.46J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	Naphthalene	0.55J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	Toluene	0.66J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	1,2,4-Trimethylbenzene	0.95J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	m&p-Xylene	1.2J	ug/L	2.0	03/19/18 11:10	
WI MOD GRO	o-Xylene	0.60J	ug/L	1.0	03/19/18 11:10	
40165904006	**MW-20**					
WI MOD GRO	Benzene	13.4	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Ethylbenzene	5.4	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Methyl-tert-butyl ether	9.9	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Naphthalene	1.1	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Toluene	0.56J	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	1,2,4-Trimethylbenzene	1.7	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	m&p-Xylene	1.5J	ug/L	2.0	03/16/18 19:18	
WI MOD GRO	o-Xylene	0.94J	ug/L	1.0	03/16/18 19:18	
40165904008	**MW-10**					
WI MOD GRO	Benzene	208	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Ethylbenzene	1010	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Methyl-tert-butyl ether	12.9J	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Naphthalene	354	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Toluene	95.5	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	1,2,4-Trimethylbenzene	934	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	1,3,5-Trimethylbenzene	256	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	m&p-Xylene	2660	ug/L	40.0	03/16/18 17:10	
WI MOD GRO	o-Xylene	1100	ug/L	20.0	03/16/18 17:10	
40165904009	**MW-2**					
WI MOD GRO	Benzene	2990	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	Ethylbenzene	301	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	Methyl-tert-butyl ether	22.3J	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	Naphthalene	78.5	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	Toluene	2960	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	1,2,4-Trimethylbenzene	214	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	1,3,5-Trimethylbenzene	53.5	ug/L	40.0	03/20/18 16:13	
WI MOD GRO	m&p-Xylene	801	ug/L	80.0	03/20/18 16:13	
WI MOD GRO	o-Xylene	412	ug/L	40.0	03/20/18 16:13	
40165904010	**MW-5R**					
WI MOD GRO	Benzene	665	ug/L	100	03/21/18 12:44	
WI MOD GRO	Ethylbenzene	2760	ug/L	100	03/21/18 12:44	
WI MOD GRO	Naphthalene	865	ug/L	100	03/21/18 12:44	

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SUMMARY OF DETECTION

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165904010	**MW-5R**					
WI MOD GRO	Toluene	7240	ug/L	100	03/21/18 12:44	
WI MOD GRO	1,2,4-Trimethylbenzene	3120	ug/L	100	03/21/18 12:44	
WI MOD GRO	1,3,5-Trimethylbenzene	849	ug/L	100	03/21/18 12:44	
WI MOD GRO	m&p-Xylene	8860	ug/L	200	03/21/18 12:44	
WI MOD GRO	o-Xylene	3330	ug/L	100	03/21/18 12:44	

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PROJECT NARRATIVE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Endeavor Environmental Services, Inc.
Date: March 22, 2018

General Information:
11 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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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Sample: MW-1 Lab ID: **40165904001** Collected: 03/12/18 10:50 Received: 03/14/18 17:55 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		03/19/18 10:44	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/19/18 10:44	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/19/18 10:44	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/19/18 10:44	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/19/18 10:44	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/19/18 10:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/19/18 10:44	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/19/18 10:44	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/19/18 10:44	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		03/19/18 10:44	98-08-8	

Sample: MW-3 Lab ID: **40165904002** Collected: 03/12/18 11:10 Received: 03/14/18 17:55 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		03/16/18 13:19	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 13:19	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/16/18 13:19	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 13:19	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 13:19	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 13:19	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 13:19	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/16/18 13:19	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/16/18 13:19	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		03/16/18 13:19	98-08-8	

Sample: MW-4 Lab ID: **40165904003** Collected: 03/12/18 11:25 Received: 03/14/18 17:55 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		03/16/18 13:44	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 13:44	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/16/18 13:44	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 13:44	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 13:44	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 13:44	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 13:44	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/16/18 13:44	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/16/18 13:44	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Sample: MW-4 **Lab ID: 40165904003** Collected: 03/12/18 11:25 Received: 03/14/18 17:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 13:44	98-08-8	

Sample: PZ-1 **Lab ID: 40165904004** Collected: 03/12/18 11:42 Received: 03/14/18 17:55 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		03/16/18 14:10	71-43-2	
Ethylbenzene	**0.48J**	ug/L	1.0	0.39	1		03/16/18 14:10	100-41-4	
Methyl-tert-butyl ether	**0.85J**	ug/L	1.0	0.48	1		03/16/18 14:10	1634-04-4	
Naphthalene	**1.2**	ug/L	1.0	0.42	1		03/16/18 14:10	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 14:10	108-88-3	
1,2,4-Trimethylbenzene	**0.70J**	ug/L	1.0	0.42	1		03/16/18 14:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 14:10	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/16/18 14:10	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/16/18 14:10	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 14:10	98-08-8	

Sample: MW-21 **Lab ID: 40165904005** Collected: 03/12/18 12:05 Received: 03/14/18 17:55 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		03/19/18 11:10	71-43-2	
Ethylbenzene	**0.46J**	ug/L	1.0	0.39	1		03/19/18 11:10	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/19/18 11:10	1634-04-4	
Naphthalene	**0.55J**	ug/L	1.0	0.42	1		03/19/18 11:10	91-20-3	
Toluene	**0.66J**	ug/L	1.0	0.39	1		03/19/18 11:10	108-88-3	
1,2,4-Trimethylbenzene	**0.95J**	ug/L	1.0	0.42	1		03/19/18 11:10	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/19/18 11:10	108-67-8	
m&p-Xylene	**1.2J**	ug/L	2.0	0.80	1		03/19/18 11:10	179601-23-1	
o-Xylene	**0.60J**	ug/L	1.0	0.45	1		03/19/18 11:10	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		03/19/18 11:10	98-08-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Sample: MW-20 Lab ID: **40165904006** Collected: 03/12/18 12:30 Received: 03/14/18 17:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**13.4**	ug/L	1.0	0.40	1		03/16/18 19:18	71-43-2	
Ethylbenzene	**5.4**	ug/L	1.0	0.39	1		03/16/18 19:18	100-41-4	
Methyl-tert-butyl ether	**9.9**	ug/L	1.0	0.48	1		03/16/18 19:18	1634-04-4	
Naphthalene	**1.1**	ug/L	1.0	0.42	1		03/16/18 19:18	91-20-3	
Toluene	**0.56J**	ug/L	1.0	0.39	1		03/16/18 19:18	108-88-3	
1,2,4-Trimethylbenzene	**1.7**	ug/L	1.0	0.42	1		03/16/18 19:18	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 19:18	108-67-8	
m&p-Xylene	**1.5J**	ug/L	2.0	0.80	1		03/16/18 19:18	179601-23-1	
o-Xylene	**0.94J**	ug/L	1.0	0.45	1		03/16/18 19:18	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 19:18	98-08-8	

Sample: MW-11 Lab ID: **40165904007** Collected: 03/12/18 13:02 Received: 03/14/18 17:55 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		03/16/18 15:02	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 15:02	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/16/18 15:02	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 15:02	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/16/18 15:02	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 15:02	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/16/18 15:02	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/16/18 15:02	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/16/18 15:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 15:02	98-08-8	

Sample: MW-10 Lab ID: **40165904008** Collected: 03/12/18 13:15 Received: 03/14/18 17:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**208**	ug/L	20.0	7.9	20		03/16/18 17:10	71-43-2	
Ethylbenzene	**1010**	ug/L	20.0	7.9	20		03/16/18 17:10	100-41-4	
Methyl-tert-butyl ether	**12.9J**	ug/L	20.0	9.7	20		03/16/18 17:10	1634-04-4	
Naphthalene	**354**	ug/L	20.0	8.5	20		03/16/18 17:10	91-20-3	
Toluene	**95.5**	ug/L	20.0	7.8	20		03/16/18 17:10	108-88-3	
1,2,4-Trimethylbenzene	**934**	ug/L	20.0	8.4	20		03/16/18 17:10	95-63-6	
1,3,5-Trimethylbenzene	**256**	ug/L	20.0	8.3	20		03/16/18 17:10	108-67-8	
m&p-Xylene	**2660**	ug/L	40.0	16.0	20		03/16/18 17:10	179601-23-1	
o-Xylene	**1100**	ug/L	20.0	9.0	20		03/16/18 17:10	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Sample: MW-10 **Lab ID: 40165904008** Collected: 03/12/18 13:15 Received: 03/14/18 17:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		20		03/16/18 17:10	98-08-8	

Sample: MW-2 **Lab ID: 40165904009** Collected: 03/12/18 13:35 Received: 03/14/18 17:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**2990**	ug/L	40.0	15.8	40		03/20/18 16:13	71-43-2	
Ethylbenzene	**301**	ug/L	40.0	15.7	40		03/20/18 16:13	100-41-4	
Methyl-tert-butyl ether	**22.3J**	ug/L	40.0	19.4	40		03/20/18 16:13	1634-04-4	
Naphthalene	**78.5**	ug/L	40.0	17.0	40		03/20/18 16:13	91-20-3	
Toluene	**2960**	ug/L	40.0	15.5	40		03/20/18 16:13	108-88-3	
1,2,4-Trimethylbenzene	**214**	ug/L	40.0	16.7	40		03/20/18 16:13	95-63-6	
1,3,5-Trimethylbenzene	**53.5**	ug/L	40.0	16.6	40		03/20/18 16:13	108-67-8	
m&p-Xylene	**801**	ug/L	80.0	32.0	40		03/20/18 16:13	179601-23-1	
o-Xylene	**412**	ug/L	40.0	18.0	40		03/20/18 16:13	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		40		03/20/18 16:13	98-08-8	

Sample: MW-5R **Lab ID: 40165904010** Collected: 03/12/18 13:50 Received: 03/14/18 17:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**665**	ug/L	100	39.6	100		03/21/18 12:44	71-43-2	
Ethylbenzene	**2760**	ug/L	100	39.3	100		03/21/18 12:44	100-41-4	
Methyl-tert-butyl ether	**<48.5**	ug/L	100	48.5	100		03/21/18 12:44	1634-04-4	
Naphthalene	**865**	ug/L	100	42.4	100		03/21/18 12:44	91-20-3	
Toluene	**7240**	ug/L	100	38.8	100		03/21/18 12:44	108-88-3	
1,2,4-Trimethylbenzene	**3120**	ug/L	100	41.8	100		03/21/18 12:44	95-63-6	
1,3,5-Trimethylbenzene	**849**	ug/L	100	41.6	100		03/21/18 12:44	108-67-8	
m&p-Xylene	**8860**	ug/L	200	79.9	100		03/21/18 12:44	179601-23-1	
o-Xylene	**3330**	ug/L	100	44.9	100		03/21/18 12:44	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		100		03/21/18 12:44	98-08-8	

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Sample: TRIP BLANK **Lab ID: 40165904011** Collected: 03/12/18 00:00 Received: 03/14/18 17:55 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		03/20/18 14:06	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/20/18 14:06	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/20/18 14:06	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/20/18 14:06	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/20/18 14:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/20/18 14:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/20/18 14:06	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/20/18 14:06	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/20/18 14:06	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		03/20/18 14:06	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

QC Batch: 283467 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40165904001, 40165904002, 40165904003, 40165904004, 40165904005, 40165904006, 40165904007, 40165904008

METHOD BLANK: 1659983 Matrix: Water
Associated Lab Samples: 40165904001, 40165904002, 40165904003, 40165904004, 40165904005, 40165904006, 40165904007, 40165904008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/16/18 10:44	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/16/18 10:44	
Benzene	ug/L	<0.40	1.0	03/16/18 10:44	
Ethylbenzene	ug/L	<0.39	1.0	03/16/18 10:44	
m&p-Xylene	ug/L	<0.80	2.0	03/16/18 10:44	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/16/18 10:44	
Naphthalene	ug/L	<0.42	1.0	03/16/18 10:44	
o-Xylene	ug/L	<0.45	1.0	03/16/18 10:44	
Toluene	ug/L	<0.39	1.0	03/16/18 10:44	
a,a,a-Trifluorotoluene (S)	%	103	80-120	03/16/18 10:44	

LABORATORY CONTROL SAMPLE & LCSD: 1659984 1659985

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	21.4	21.3	107	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.8	20.9	104	105	80-120	0	20	
Benzene	ug/L	20	21.2	20.9	106	104	80-120	1	20	
Ethylbenzene	ug/L	20	21.6	21.3	108	106	80-120	1	20	
m&p-Xylene	ug/L	40	42.3	41.9	106	105	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.0	19.7	105	98	80-120	7	20	
Naphthalene	ug/L	20	21.5	21.1	108	106	80-120	2	20	
o-Xylene	ug/L	20	21.2	21.1	106	105	80-120	1	20	
Toluene	ug/L	20	21.4	21.2	107	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	105	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1660093 1660094

Parameter	Units	40165904008 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	934	400	400	1370	1370	109	108	11-200	0	20	
1,3,5-Trimethylbenzene	ug/L	256	400	400	679	675	106	105	54-142	1	20	
Benzene	ug/L	208	400	400	610	601	100	98	66-140	1	20	
Ethylbenzene	ug/L	1010	400	400	1460	1450	113	110	66-143	1	20	
m&p-Xylene	ug/L	2660	800	800	3540	3520	110	107	60-141	1	20	
Methyl-tert-butyl ether	ug/L	12.9J	400	400	397	401	96	97	70-129	1	20	
Naphthalene	ug/L	354	400	400	749	756	99	100	64-129	1	20	
o-Xylene	ug/L	1100	400	400	1540	1520	109	106	68-132	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1660093 1660094

Parameter	Units	40165904008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	95.5	400	400	518	506	106	103	76-130	2	20	
a,a,a-Trifluorotoluene (S)	%						106	104	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

QC Batch: 283701 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40165904009, 40165904010, 40165904011

METHOD BLANK: 1661076 Matrix: Water
Associated Lab Samples: 40165904009, 40165904010, 40165904011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/20/18 08:59	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/20/18 08:59	
Benzene	ug/L	<0.40	1.0	03/20/18 08:59	
Ethylbenzene	ug/L	<0.39	1.0	03/20/18 08:59	
m&p-Xylene	ug/L	<0.80	2.0	03/20/18 08:59	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/20/18 08:59	
Naphthalene	ug/L	<0.42	1.0	03/20/18 08:59	
o-Xylene	ug/L	<0.45	1.0	03/20/18 08:59	
Toluene	ug/L	<0.39	1.0	03/20/18 08:59	
a,a,a-Trifluorotoluene (S)	%	102	80-120	03/20/18 08:59	

LABORATORY CONTROL SAMPLE & LCSD: 1661077 1661078

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	20.0	19.7	100	98	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	19.3	19.1	97	95	80-120	1	20	
Benzene	ug/L	20	19.4	19.5	97	97	80-120	0	20	
Ethylbenzene	ug/L	20	19.5	19.3	98	97	80-120	1	20	
m&p-Xylene	ug/L	40	38.7	38.1	97	95	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.7	18.9	98	94	80-120	4	20	
Naphthalene	ug/L	20	19.4	18.8	97	94	80-120	3	20	
o-Xylene	ug/L	20	19.6	19.3	98	97	80-120	1	20	
Toluene	ug/L	20	19.5	19.4	98	97	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1661207 1661208

Parameter	Units	40166079001 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	216	200	200	409	415	96	99	11-200	2	20	
1,3,5-Trimethylbenzene	ug/L	<4.2	200	200	192	196	96	98	54-142	2	20	
Benzene	ug/L	827	200	200	992	972	83	73	66-140	2	20	
Ethylbenzene	ug/L	528	200	200	702	701	87	86	66-143	0	20	
m&p-Xylene	ug/L	183	400	400	554	560	93	94	60-141	1	20	
Methyl-tert-butyl ether	ug/L	<4.8	200	200	186	182	93	91	70-129	2	20	
Naphthalene	ug/L	10.1	200	200	188	195	89	93	64-129	4	20	
o-Xylene	ug/L	14.8	200	200	207	209	96	97	68-132	1	20	
Toluene	ug/L	27.2	200	200	220	218	97	96	76-130	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1661207 1661208

Parameter	Units	40166079001 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	101	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40165904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165904001	MW-1	WI MOD GRO	283467		
40165904002	MW-3	WI MOD GRO	283467		
40165904003	MW-4	WI MOD GRO	283467		
40165904004	PZ-1	WI MOD GRO	283467		
40165904005	MW-21	WI MOD GRO	283467		
40165904006	MW-20	WI MOD GRO	283467		
40165904007	MW-11	WI MOD GRO	283467		
40165904008	MW-10	WI MOD GRO	283467		
40165904009	MW-2	WI MOD GRO	283701		
40165904010	MW-5R	WI MOD GRO	283701		
40165904011	TRIP BLANK	WI MOD GRO	283701		

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

Sample Preservation Receipt Form

Client Name: Endeavor Project # 40165904

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☐N/A Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		1															2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40165904

Client Name: Endeavor

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

Tracking #: _____

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

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

Cooler Temperature Uncorr: 2.8 /Corr: _____

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

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

Person examining contents:
Date: 3/14/18
Initials: MS

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐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 MS/MSD	☑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.
-Includes date/time/ID/Analysis Matrix: WW		
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 394		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 3/15/18

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

Page 19 of 21

40165904

Pace Analytical®
www.pacelabs.com

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:	Endeavor Env. Services Inc.
Branch/Location:	Green Bay
Project Contact:	Joseph Ramcheck
Phone:	920-437-2997
Project Number:	P101399.40
Project Name:	Da Swamp Bar
Project State:	WI
Sampled By (Print):	Jordan Kaufman
Sampled By (Sign):	Jordan K
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	Joseph Ramcheck
Invoice To Company:	Endeavor Env. Services Inc.
Invoice To Address:	2280 B Salscheider Court Green Bay, WI 54313
Invoice To Phone:	920-437-2997

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: PVOC + Naphthalene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	3/12/18	1050	GW	N	B				
002	MW-3		1110							
003	MW-4		1125							
004	PZ-1		1142							
005	MW-21		1205							
006	MW-20		1230							
007	MW-11		1302							
008	MW-10		1315							
009	MW-2		1335							
010	MW-5R		1350							
011	Trip Blank		—	Trip						

PECFA
UST
Rates

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:
	3/14/18 1700		3/14/18 1700
	3/14/18 1755		3/14/18 1755

PACE Project No.: 40165904

Receipt Temp = POP °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

April 02, 2018

Joe Ramcheck
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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(920)469-2436

SAMPLE SUMMARY

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40166445001	SUMP	Water	03/24/18 12:00	03/26/18 12:21
40166445002	POTABLE	Water	03/24/18 12:10	03/26/18 12:21
40166445003	TRIP BLANK	Water	03/24/18 00:00	03/26/18 12:21

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SAMPLE ANALYTE COUNT

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40166445001	SUMP	WI MOD GRO	ALD	10	PASI-G
40166445002	POTABLE	WI MOD GRO	ALD	10	PASI-G
40166445003	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G

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PROJECT NARRATIVE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Endeavor Environmental Services, Inc.
Date: April 02, 2018

General Information:
3 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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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Sample: SUMP Lab ID: **40166445001** Collected: 03/24/18 12:00 Received: 03/26/18 12:21 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		03/30/18 10:41	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/30/18 10:41	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/30/18 10:41	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 10:41	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/30/18 10:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 10:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 10:41	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/30/18 10:41	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/30/18 10:41	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		03/30/18 10:41	98-08-8	

Sample: POTABLE Lab ID: **40166445002** Collected: 03/24/18 12:10 Received: 03/26/18 12:21 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		03/30/18 11:07	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/30/18 11:07	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/30/18 11:07	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 11:07	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/30/18 11:07	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 11:07	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 11:07	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/30/18 11:07	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/30/18 11:07	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		03/30/18 11:07	98-08-8	

Sample: TRIP BLANK Lab ID: **40166445003** Collected: 03/24/18 00:00 Received: 03/26/18 12:21 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		03/30/18 14:14	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		03/30/18 14:14	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		03/30/18 14:14	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 14:14	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		03/30/18 14:14	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 14:14	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		03/30/18 14:14	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		03/30/18 14:14	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		03/30/18 14:14	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Sample: TRIP BLANK **Lab ID: 40166445003** Collected: 03/24/18 00:00 Received: 03/26/18 12:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		03/30/18 14:14	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

QC Batch: 284722 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40166445001, 40166445002, 40166445003

METHOD BLANK: 1666467 Matrix: Water
Associated Lab Samples: 40166445001, 40166445002, 40166445003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/30/18 08:59	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/30/18 08:59	
Benzene	ug/L	<0.40	1.0	03/30/18 08:59	
Ethylbenzene	ug/L	<0.39	1.0	03/30/18 08:59	
m&p-Xylene	ug/L	<0.80	2.0	03/30/18 08:59	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/30/18 08:59	
Naphthalene	ug/L	<0.42	1.0	03/30/18 08:59	
o-Xylene	ug/L	<0.45	1.0	03/30/18 08:59	
Toluene	ug/L	<0.39	1.0	03/30/18 08:59	
a,a,a-Trifluorotoluene (S)	%	102	80-120	03/30/18 08:59	

LABORATORY CONTROL SAMPLE & LCSD: 1666468 1666469

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	21.2	20.1	106	100	80-120	6	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	19.4	103	97	80-120	6	20	
Benzene	ug/L	20	20.6	19.5	103	98	80-120	5	20	
Ethylbenzene	ug/L	20	20.8	19.6	104	98	80-120	6	20	
m&p-Xylene	ug/L	40	41.2	38.9	103	97	80-120	6	20	
Methyl-tert-butyl ether	ug/L	20	20.2	19.4	101	97	80-120	4	20	
Naphthalene	ug/L	20	20.1	19.7	101	99	80-120	2	20	
o-Xylene	ug/L	20	20.9	19.9	104	99	80-120	5	20	
Toluene	ug/L	20	20.8	19.7	104	98	80-120	5	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40166445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40166445001	**SUMP**	WI MOD GRO	284722		
40166445002	**POTABLE**	WI MOD GRO	284722		
40166445003	**TRIP BLANK**	WI MOD GRO	284722		

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

Sample Preservation Receipt Form

Client Name: endeavor environmental Project # 40166445

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		1															2.5 / 5 / 10
002																		2															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
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009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 31Jan2018
	Document No.: F-GB-C-031-rev.06	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40166445

40166445

Client Name: Endeavor environmental

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

Tracking #:

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

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

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

Thermometer Used SR - NA **Type of Ice:** Wet Blue Dry None ☒ Samples on Ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO

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

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

Person examining contents:
Date: 3/26/18
Initials:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐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 MS/MSD	☐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.
-Includes date/time/ID/Analysis Matrix: W		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 394		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 3/26/18

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

Page 11 of 13

40166445

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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:	Endeavor Env. Services Inc
Branch/Location:	Green Bay
Project Contact:	Joseph Ramcheck
Phone:	920-437-2997
Project Number:	P101399.90
Project Name:	Da Swamp Bar
Project State:	WI
Sampled By (Print):	Joseph Ramcheck
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Joseph Ramcheck
Mail To Company:	Endeavor Env. Services Inc
Mail To Address:	2280-B Scheuerlein Ct Green Bay WI 54313
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: PVOC plus naphthalene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Temp	3/24/18	1200	GW	N	B	X			
002	Potable		1210	DW			X			
003	Trip Blank	↓	—	TRIP			X			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time:	Received By:	Date/Time:
		3/26/18 1221		3/26/18 1221
Transmit Prelim Rush Results by (complete what you want):	Relinquished By:	Date/Time:	Received By:	Date/Time:
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.: 40166445

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

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

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

August 20, 2018

Joe Ramcheck
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

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

Enclosures

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

CERTIFICATIONS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174052001	MW-1	Water	08/14/18 14:51	08/15/18 09:22
40174052002	MW-3	Water	08/14/18 15:00	08/15/18 09:22
40174052003	MW-4	Water	08/14/18 15:25	08/15/18 09:22
40174052004	MW-11	Water	08/14/18 15:37	08/15/18 09:22
40174052005	PZ-1	Water	08/14/18 15:55	08/15/18 09:22
40174052006	MW-21	Water	08/14/18 16:19	08/15/18 09:22
40174052007	MW-20	Water	08/14/18 16:37	08/15/18 09:22
40174052008	MW-10	Water	08/14/18 16:50	08/15/18 09:22
40174052009	MW-2	Water	08/14/18 17:23	08/15/18 09:22
40174052010	MW-5R	Water	08/14/18 17:30	08/15/18 09:22
40174052011	TRIP BLANK	Water	08/14/18 00:00	08/15/18 09:22

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SAMPLE ANALYTE COUNT

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40174052001	MW-1	WI MOD GRO	PMS	10	PASI-G
40174052002	MW-3	WI MOD GRO	PMS	10	PASI-G
40174052003	MW-4	WI MOD GRO	PMS	10	PASI-G
40174052004	MW-11	WI MOD GRO	PMS	10	PASI-G
40174052005	PZ-1	WI MOD GRO	PMS	10	PASI-G
40174052006	MW-21	WI MOD GRO	PMS	10	PASI-G
40174052007	MW-20	WI MOD GRO	PMS	10	PASI-G
40174052008	MW-10	WI MOD GRO	PMS	10	PASI-G
40174052009	MW-2	WI MOD GRO	PMS	10	PASI-G
40174052010	MW-5R	WI MOD GRO	PMS	10	PASI-G
40174052011	TRIP BLANK	WI MOD GRO	PMS	10	PASI-G

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SUMMARY OF DETECTION

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40174052007	**MW-20**					
WI MOD GRO	Methyl-tert-butyl ether	6.6	ug/L	1.1	08/17/18 14:48	
40174052008	**MW-10**					
WI MOD GRO	Benzene	855	ug/L	10.2	08/20/18 10:14	
WI MOD GRO	Ethylbenzene	1120	ug/L	11.0	08/20/18 10:14	
WI MOD GRO	Methyl-tert-butyl ether	12.1	ug/L	10.7	08/20/18 10:14	
WI MOD GRO	Naphthalene	418	ug/L	16.8	08/20/18 10:14	
WI MOD GRO	Toluene	746	ug/L	16.3	08/20/18 10:14	
WI MOD GRO	1,2,4-Trimethylbenzene	1110	ug/L	11.4	08/20/18 10:14	
WI MOD GRO	1,3,5-Trimethylbenzene	288	ug/L	10.9	08/20/18 10:14	
WI MOD GRO	m&p-Xylene	2470	ug/L	21.8	08/20/18 10:14	
WI MOD GRO	o-Xylene	1080	ug/L	10.5	08/20/18 10:14	
40174052009	**MW-2**					
WI MOD GRO	Benzene	184	ug/L	2.6	08/20/18 09:48	
WI MOD GRO	Ethylbenzene	24.7	ug/L	2.8	08/20/18 09:48	
WI MOD GRO	Methyl-tert-butyl ether	1.8J	ug/L	2.7	08/20/18 09:48	
WI MOD GRO	Naphthalene	5.2	ug/L	4.2	08/20/18 09:48	
WI MOD GRO	Toluene	108	ug/L	4.1	08/20/18 09:48	
WI MOD GRO	1,2,4-Trimethylbenzene	11.0	ug/L	2.8	08/20/18 09:48	
WI MOD GRO	1,3,5-Trimethylbenzene	2.1J	ug/L	2.7	08/20/18 09:48	
WI MOD GRO	m&p-Xylene	42.8	ug/L	5.4	08/20/18 09:48	
WI MOD GRO	o-Xylene	22.4	ug/L	2.6	08/20/18 09:48	
40174052010	**MW-5R**					
WI MOD GRO	Benzene	227	ug/L	40.8	08/17/18 18:38	
WI MOD GRO	Ethylbenzene	1420	ug/L	44.0	08/17/18 18:38	
WI MOD GRO	Naphthalene	618	ug/L	67.2	08/17/18 18:38	
WI MOD GRO	Toluene	1270	ug/L	65.2	08/17/18 18:38	
WI MOD GRO	1,2,4-Trimethylbenzene	2180	ug/L	45.6	08/17/18 18:38	
WI MOD GRO	1,3,5-Trimethylbenzene	566	ug/L	43.6	08/17/18 18:38	
WI MOD GRO	m&p-Xylene	4270	ug/L	87.2	08/17/18 18:38	
WI MOD GRO	o-Xylene	1240	ug/L	42.0	08/17/18 18:38	

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PROJECT NARRATIVE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Endeavor Environmental Services, Inc.
Date: August 20, 2018

General Information:
11 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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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Sample: MW-1 Lab ID: **40174052001** Collected: 08/14/18 14:51 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/16/18 16:31	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/16/18 16:31	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/16/18 16:31	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/16/18 16:31	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/16/18 16:31	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/16/18 16:31	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/16/18 16:31	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/16/18 16:31	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/16/18 16:31	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/16/18 16:31	98-08-8	

Sample: MW-3 Lab ID: **40174052002** Collected: 08/14/18 15:00 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/16/18 22:04	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/16/18 22:04	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/16/18 22:04	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/16/18 22:04	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/16/18 22:04	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/16/18 22:04	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/16/18 22:04	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/16/18 22:04	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/16/18 22:04	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/16/18 22:04	98-08-8	

Sample: MW-4 Lab ID: **40174052003** Collected: 08/14/18 15:25 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/16/18 22:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/16/18 22:29	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/16/18 22:29	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/16/18 22:29	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/16/18 22:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/16/18 22:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/16/18 22:29	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/16/18 22:29	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/16/18 22:29	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Sample: MW-4 **Lab ID: 40174052003** Collected: 08/14/18 15:25 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		08/16/18 22:29	98-08-8	

Sample: MW-11 **Lab ID: 40174052004** Collected: 08/14/18 15:37 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/17/18 13:29	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 13:29	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/17/18 13:29	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/17/18 13:29	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/17/18 13:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/17/18 13:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 13:29	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/17/18 13:29	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/17/18 13:29	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		08/17/18 13:29	98-08-8	

Sample: PZ-1 **Lab ID: 40174052005** Collected: 08/14/18 15:55 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/17/18 13:54	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 13:54	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/17/18 13:54	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/17/18 13:54	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/17/18 13:54	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/17/18 13:54	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 13:54	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/17/18 13:54	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/17/18 13:54	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 13:54	98-08-8	

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

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Sample: MW-21 **Lab ID: 40174052006** Collected: 08/14/18 16:19 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/17/18 14:20	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 14:20	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/17/18 14:20	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/17/18 14:20	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/17/18 14:20	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/17/18 14:20	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 14:20	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/17/18 14:20	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/17/18 14:20	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 14:20	98-08-8	

Sample: MW-20 **Lab ID: 40174052007** Collected: 08/14/18 16:37 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/17/18 14:48	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 14:48	100-41-4	
Methyl-tert-butyl ether	**6.6**	ug/L	1.1	0.32	1		08/17/18 14:48	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/17/18 14:48	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/17/18 14:48	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/17/18 14:48	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 14:48	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/17/18 14:48	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/17/18 14:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 14:48	98-08-8	

Sample: MW-10 **Lab ID: 40174052008** Collected: 08/14/18 16:50 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**855**	ug/L	10.2	3.1	10		08/20/18 10:14	71-43-2	
Ethylbenzene	**1120**	ug/L	11.0	3.3	10		08/20/18 10:14	100-41-4	
Methyl-tert-butyl ether	**12.1**	ug/L	10.7	3.2	10		08/20/18 10:14	1634-04-4	
Naphthalene	**418**	ug/L	16.8	5.1	10		08/20/18 10:14	91-20-3	
Toluene	**746**	ug/L	16.3	4.9	10		08/20/18 10:14	108-88-3	
1,2,4-Trimethylbenzene	**1110**	ug/L	11.4	3.4	10		08/20/18 10:14	95-63-6	
1,3,5-Trimethylbenzene	**288**	ug/L	10.9	3.3	10		08/20/18 10:14	108-67-8	
m&p-Xylene	**2470**	ug/L	21.8	6.6	10		08/20/18 10:14	179601-23-1	
o-Xylene	**1080**	ug/L	10.5	3.2	10		08/20/18 10:14	95-47-6	

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Sample: MW-10 **Lab ID: 40174052008** Collected: 08/14/18 16:50 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		10		08/20/18 10:14	98-08-8	

Sample: MW-2 **Lab ID: 40174052009** Collected: 08/14/18 17:23 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**184**	ug/L	2.6	0.76	2.5		08/20/18 09:48	71-43-2	
Ethylbenzene	**24.7**	ug/L	2.8	0.82	2.5		08/20/18 09:48	100-41-4	
Methyl-tert-butyl ether	**1.8J**	ug/L	2.7	0.80	2.5		08/20/18 09:48	1634-04-4	
Naphthalene	**5.2**	ug/L	4.2	1.3	2.5		08/20/18 09:48	91-20-3	
Toluene	**108**	ug/L	4.1	1.2	2.5		08/20/18 09:48	108-88-3	
1,2,4-Trimethylbenzene	**11.0**	ug/L	2.8	0.86	2.5		08/20/18 09:48	95-63-6	
1,3,5-Trimethylbenzene	**2.1J**	ug/L	2.7	0.82	2.5		08/20/18 09:48	108-67-8	
m&p-Xylene	**42.8**	ug/L	5.4	1.6	2.5		08/20/18 09:48	179601-23-1	
o-Xylene	**22.4**	ug/L	2.6	0.79	2.5		08/20/18 09:48	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		2.5		08/20/18 09:48	98-08-8	

Sample: MW-5R **Lab ID: 40174052010** Collected: 08/14/18 17:30 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**227**	ug/L	40.8	12.2	40		08/17/18 18:38	71-43-2	
Ethylbenzene	**1420**	ug/L	44.0	13.2	40		08/17/18 18:38	100-41-4	
Methyl-tert-butyl ether	**<12.8**	ug/L	42.8	12.8	40		08/17/18 18:38	1634-04-4	
Naphthalene	**618**	ug/L	67.2	20.2	40		08/17/18 18:38	91-20-3	
Toluene	**1270**	ug/L	65.2	19.6	40		08/17/18 18:38	108-88-3	
1,2,4-Trimethylbenzene	**2180**	ug/L	45.6	13.7	40		08/17/18 18:38	95-63-6	
1,3,5-Trimethylbenzene	**566**	ug/L	43.6	13.1	40		08/17/18 18:38	108-67-8	
m&p-Xylene	**4270**	ug/L	87.2	26.2	40		08/17/18 18:38	179601-23-1	
o-Xylene	**1240**	ug/L	42.0	12.6	40		08/17/18 18:38	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		40		08/17/18 18:38	98-08-8	

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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Sample: TRIP BLANK **Lab ID: 40174052011** Collected: 08/14/18 00:00 Received: 08/15/18 09:22 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		08/17/18 16:56	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 16:56	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		08/17/18 16:56	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		08/17/18 16:56	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		08/17/18 16:56	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		08/17/18 16:56	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		08/17/18 16:56	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		08/17/18 16:56	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		08/17/18 16:56	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 16:56	98-08-8	HS

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

QC Batch: 297364 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40174052001, 40174052002, 40174052003

METHOD BLANK: 1736530 Matrix: Water
Associated Lab Samples: 40174052001, 40174052002, 40174052003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	08/16/18 09:10	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	08/16/18 09:10	
Benzene	ug/L	<0.31	1.0	08/16/18 09:10	
Ethylbenzene	ug/L	<0.33	1.1	08/16/18 09:10	
m&p-Xylene	ug/L	<0.66	2.2	08/16/18 09:10	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	08/16/18 09:10	
Naphthalene	ug/L	<0.51	1.7	08/16/18 09:10	
o-Xylene	ug/L	<0.32	1.0	08/16/18 09:10	
Toluene	ug/L	<0.49	1.6	08/16/18 09:10	
a,a,a-Trifluorotoluene (S)	%	102	80-120	08/16/18 09:10	

LABORATORY CONTROL SAMPLE & LCSD: 1736531 1736532

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	20.5	21.0	102	105	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	19.9	20.2	99	101	80-120	2	20	
Benzene	ug/L	20	20.2	20.3	101	101	80-120	1	20	
Ethylbenzene	ug/L	20	20.2	20.7	101	103	80-120	2	20	
m&p-Xylene	ug/L	40	40.2	40.1	101	100	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	21.0	20.4	105	102	80-120	3	20	
Naphthalene	ug/L	20	20.3	21.6	102	108	80-120	6	20	
o-Xylene	ug/L	20	20.5	20.4	102	102	80-120	0	20	
Toluene	ug/L	20	20.3	20.4	102	102	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1737309 1737310

Parameter	Units	40174039004 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	<0.34	20	20	22.1	22.4	110	112	51-160	1	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	21.5	21.7	107	108	56-146	1	20	
Benzene	ug/L	<0.31	20	20	22.0	21.3	110	107	71-137	3	20	
Ethylbenzene	ug/L	<0.33	20	20	22.3	22.1	111	111	71-141	1	20	
m&p-Xylene	ug/L	<0.66	40	40	43.9	43.9	110	110	66-141	0	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.9	20.6	105	103	80-120	2	20	
Naphthalene	ug/L	<0.51	20	20	20.7	22.0	104	110	67-138	6	20	
o-Xylene	ug/L	<0.32	20	20	22.0	22.0	110	110	75-133	0	20	
Toluene	ug/L	<0.49	20	20	22.3	21.9	112	110	76-134	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1737309 1737310

Parameter	Units	40174039004 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)	%						101	102	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

QC Batch: 297476 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40174052004, 40174052005, 40174052006, 40174052007, 40174052008, 40174052009, 40174052010, 40174052011

METHOD BLANK: 1737342 Matrix: Water
Associated Lab Samples: 40174052004, 40174052005, 40174052006, 40174052007, 40174052008, 40174052009, 40174052010, 40174052011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	08/17/18 11:46	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	08/17/18 11:46	
Benzene	ug/L	<0.31	1.0	08/17/18 11:46	
Ethylbenzene	ug/L	<0.33	1.1	08/17/18 11:46	
m&p-Xylene	ug/L	<0.66	2.2	08/17/18 11:46	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	08/17/18 11:46	
Naphthalene	ug/L	<0.51	1.7	08/17/18 11:46	
o-Xylene	ug/L	<0.32	1.0	08/17/18 11:46	
Toluene	ug/L	<0.49	1.6	08/17/18 11:46	
a,a,a-Trifluorotoluene (S)	%	101	80-120	08/17/18 11:46	

LABORATORY CONTROL SAMPLE & LCSD: 1737343 1737344

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	21.3	21.3	107	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	20.5	103	103	80-120	0	20	
Benzene	ug/L	20	20.9	21.0	104	105	80-120	1	20	
Ethylbenzene	ug/L	20	21.1	20.9	106	105	80-120	1	20	
m&p-Xylene	ug/L	40	42.0	41.5	105	104	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.2	20.8	106	104	80-120	2	20	
Naphthalene	ug/L	20	21.4	21.0	107	105	80-120	2	20	
o-Xylene	ug/L	20	21.2	21.0	106	105	80-120	1	20	
Toluene	ug/L	20	21.1	21.0	105	105	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1738466 1738467

Parameter	Units	40174052004 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	<0.34	20	20	22.2	22.0	111	110	51-160	1	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	21.5	21.5	107	108	56-146	0	20	
Benzene	ug/L	<0.31	20	20	21.8	21.9	109	110	71-137	0	20	
Ethylbenzene	ug/L	<0.33	20	20	22.2	22.3	111	111	71-141	0	20	
m&p-Xylene	ug/L	<0.66	40	40	43.9	43.9	110	110	66-141	0	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	21.7	21.7	109	109	80-120	0	20	
Naphthalene	ug/L	<0.51	20	20	22.3	22.7	112	113	67-138	2	20	
o-Xylene	ug/L	<0.32	20	20	22.0	22.0	110	110	75-133	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1738466 1738467

Parameter	Units	40174052004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.49	20	20	22.2	22.3	111	112	76-134	0	20	
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.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40174052

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40174052001	MW-1	WI MOD GRO	297364		
40174052002	MW-3	WI MOD GRO	297364		
40174052003	MW-4	WI MOD GRO	297364		
40174052004	MW-11	WI MOD GRO	297476		
40174052005	PZ-1	WI MOD GRO	297476		
40174052006	MW-21	WI MOD GRO	297476		
40174052007	MW-20	WI MOD GRO	297476		
40174052008	MW-10	WI MOD GRO	297476		
40174052009	MW-2	WI MOD GRO	297476		
40174052010	MW-5R	WI MOD GRO	297476		
40174052011	TRIP BLANK	WI MOD GRO	297476		

(Please Print Clearly)

Company Name:	Endeavor Env. Services Inc
Branch/Location:	Green Bay
Project Contact:	Joseph Ramcheck
Phone:	(920)437-2997
Project Number:	P101399.40
Project Name:	Da Swamp Bar
Project State:	WI
Sampled By (Print):	Nicholas Urich
Sampled By (Sign):	Nicholas Urich
PO #:	
Regulatory Program:	

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40174052

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:	Joseph Ramcheck
Mail To Company:	Endeavor Env. Services, Inc
Mail To Address:	2280-B Salscheider Ct Green Bay, WI 54313
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: N
PRESERVATION (CODE)* Pick Letter: F
Analyses Requested: PVOC + napthalene

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC + napthalene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	8/14/18	1451	GW	X			
002	MW-3	↓	1500	↓	X			
003	MW-4		1525		X			
004	MW-11		1537		X			
005	PZ-1		1555		X			
006	MW-21		1619		X			
007	MW-20		1637		X			
008	MW-10		1650		X			
009	MW-2		1723		X			
010	MW-5R		1730	↓	X			
011	Trip Blank	↓	—	Trip	X			

PECFA UIC rates

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:
Nicholas Urich	8/15/18 0922	[signature]	8/15/18 0923

PACE Project No. 40174052

Receipt Temp = RoI °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

C019a(27Jun2006)

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

Sample Preservation Receipt Form

Client Name: Endeavor Project # 40174052

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

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

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3									1						2.5 / 5 / 10
002																		3									1						2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		3									1						2.5 / 5 / 10
012																		3									1						2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40174052

40174052

Client Name: Endeavor

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

Tracking #: _____

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

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

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

Thermometer Used SR - N/A **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: N/A /Corr: _____

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

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

Person examining contents:
Date: 8/15/18
Initials: _____

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☐No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. 007 - "555" collect time 005 - "1637" collect time 8/15/18
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
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: _____

Project Manager Review: _____ **Date:** 8/15/18

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

December 12, 2018

Joe Ramcheck
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

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

Enclosures

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

CERTIFICATIONS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40180361001	MW-1	Water	11/30/18 15:25	12/03/18 07:55
40180361002	MW-3	Water	11/30/18 15:45	12/03/18 07:55
40180361003	MW-4	Water	11/30/18 16:15	12/03/18 07:55
40180361004	MW-11	Water	11/30/18 17:30	12/03/18 07:55
40180361005	PZ-1	Water	11/30/18 16:38	12/03/18 07:55
40180361006	MW-21	Water	11/30/18 17:15	12/03/18 07:55
40180361007	MW-20	Water	11/30/18 16:50	12/03/18 07:55
40180361008	MW-10	Water	11/30/18 17:50	12/03/18 07:55
40180361009	MW-2	Water	11/30/18 15:55	12/03/18 07:55
40180361010	MW-5R	Water	11/30/18 18:20	12/03/18 07:55
40180361011	TRIP BLANK	Water	11/30/18 00:00	12/03/18 07:55

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SAMPLE ANALYTE COUNT

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40180361001	MW-1	WI MOD GRO	PMS	10	PASI-G
40180361002	MW-3	WI MOD GRO	PMS	10	PASI-G
40180361003	MW-4	WI MOD GRO	PMS	10	PASI-G
40180361004	MW-11	WI MOD GRO	PMS	10	PASI-G
40180361005	PZ-1	WI MOD GRO	PMS	10	PASI-G
40180361006	MW-21	WI MOD GRO	PMS	10	PASI-G
40180361007	MW-20	WI MOD GRO	PMS	10	PASI-G
40180361008	MW-10	WI MOD GRO	PMS	10	PASI-G
40180361009	MW-2	WI MOD GRO	PMS	10	PASI-G
40180361010	MW-5R	WI MOD GRO	PMS	10	PASI-G
40180361011	TRIP BLANK	WI MOD GRO	PMS	10	PASI-G

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SUMMARY OF DETECTION

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40180361007	**MW-20**					
WI MOD GRO	Methyl-tert-butyl ether	5.9	ug/L	1.1	12/05/18 13:49	
40180361008	**MW-10**					
WI MOD GRO	Benzene	704	ug/L	20.4	12/05/18 17:15	
WI MOD GRO	Ethylbenzene	1320	ug/L	22.0	12/05/18 17:15	
WI MOD GRO	Methyl-tert-butyl ether	12.8J	ug/L	21.4	12/05/18 17:15	
WI MOD GRO	Naphthalene	389	ug/L	33.6	12/05/18 17:15	
WI MOD GRO	Toluene	275	ug/L	32.6	12/05/18 17:15	
WI MOD GRO	1,2,4-Trimethylbenzene	1150	ug/L	22.8	12/05/18 17:15	
WI MOD GRO	1,3,5-Trimethylbenzene	315	ug/L	21.8	12/05/18 17:15	
WI MOD GRO	m&p-Xylene	3020	ug/L	43.6	12/05/18 17:15	
WI MOD GRO	o-Xylene	1270	ug/L	21.0	12/05/18 17:15	
40180361009	**MW-2**					
WI MOD GRO	Benzene	494	ug/L	5.1	12/06/18 12:57	
WI MOD GRO	Ethylbenzene	124	ug/L	5.5	12/06/18 12:57	
WI MOD GRO	Methyl-tert-butyl ether	2.9J	ug/L	5.4	12/06/18 12:57	
WI MOD GRO	Naphthalene	19.3	ug/L	8.4	12/06/18 12:57	
WI MOD GRO	Toluene	609	ug/L	8.2	12/06/18 12:57	
WI MOD GRO	1,2,4-Trimethylbenzene	56.4	ug/L	5.7	12/06/18 12:57	
WI MOD GRO	1,3,5-Trimethylbenzene	13.4	ug/L	5.4	12/06/18 12:57	
WI MOD GRO	m&p-Xylene	260	ug/L	10.9	12/06/18 12:57	
WI MOD GRO	o-Xylene	123	ug/L	5.2	12/06/18 12:57	
40180361010	**MW-5R**					
WI MOD GRO	Benzene	215	ug/L	51.0	12/05/18 16:23	
WI MOD GRO	Ethylbenzene	1760	ug/L	55.0	12/05/18 16:23	
WI MOD GRO	Naphthalene	605	ug/L	84.0	12/05/18 16:23	
WI MOD GRO	Toluene	2240	ug/L	81.5	12/05/18 16:23	
WI MOD GRO	1,2,4-Trimethylbenzene	2300	ug/L	57.0	12/05/18 16:23	
WI MOD GRO	1,3,5-Trimethylbenzene	644	ug/L	54.5	12/05/18 16:23	
WI MOD GRO	m&p-Xylene	5230	ug/L	109	12/05/18 16:23	
WI MOD GRO	o-Xylene	1710	ug/L	52.5	12/05/18 16:23	

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PROJECT NARRATIVE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Method: WI MOD GRO
Description: WIGRO GCV
Client: Endeavor Environmental Services, Inc.
Date: December 12, 2018

General Information:
11 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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ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Sample: MW-1 **Lab ID: 40180361001** Collected: 11/30/18 15:25 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 11:15	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 11:15	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 11:15	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 11:15	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 11:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 11:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 11:15	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 11:15	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 11:15	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		1		12/05/18 11:15	98-08-8	

Sample: MW-3 **Lab ID: 40180361002** Collected: 11/30/18 15:45 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 11:41	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 11:41	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 11:41	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 11:41	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 11:41	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 11:41	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 11:41	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 11:41	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 11:41	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 11:41	98-08-8	

Sample: MW-4 **Lab ID: 40180361003** Collected: 11/30/18 16:15 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 12:06	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 12:06	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 12:06	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 12:06	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 12:06	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 12:06	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 12:06	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 12:06	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 12:06	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Sample: MW-4 **Lab ID: 40180361003** Collected: 11/30/18 16:15 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		12/05/18 12:06	98-08-8	

Sample: MW-11 **Lab ID: 40180361004** Collected: 11/30/18 17:30 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 12:32	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 12:32	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 12:32	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 12:32	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 12:32	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 12:32	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 12:32	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 12:32	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 12:32	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 12:32	98-08-8	

Sample: PZ-1 **Lab ID: 40180361005** Collected: 11/30/18 16:38 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 12:58	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 12:58	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 12:58	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 12:58	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 12:58	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 12:58	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 12:58	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 12:58	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 12:58	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 12:58	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Sample: MW-21 **Lab ID: 40180361006** Collected: 11/30/18 17:15 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 13:23	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 13:23	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 13:23	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 13:23	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 13:23	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 13:23	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 13:23	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 13:23	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 13:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 13:23	98-08-8	

Sample: MW-20 **Lab ID: 40180361007** Collected: 11/30/18 16:50 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 13:49	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 13:49	100-41-4	
Methyl-tert-butyl ether	**5.9**	ug/L	1.1	0.32	1		12/05/18 13:49	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 13:49	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 13:49	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 13:49	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 13:49	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 13:49	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 13:49	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 13:49	98-08-8	

Sample: MW-10 **Lab ID: 40180361008** Collected: 11/30/18 17:50 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**704**	ug/L	20.4	6.1	20		12/05/18 17:15	71-43-2	
Ethylbenzene	**1320**	ug/L	22.0	6.6	20		12/05/18 17:15	100-41-4	
Methyl-tert-butyl ether	**12.8J**	ug/L	21.4	6.4	20		12/05/18 17:15	1634-04-4	
Naphthalene	**389**	ug/L	33.6	10.1	20		12/05/18 17:15	91-20-3	
Toluene	**275**	ug/L	32.6	9.8	20		12/05/18 17:15	108-88-3	
1,2,4-Trimethylbenzene	**1150**	ug/L	22.8	6.8	20		12/05/18 17:15	95-63-6	
1,3,5-Trimethylbenzene	**315**	ug/L	21.8	6.6	20		12/05/18 17:15	108-67-8	
m&p-Xylene	**3020**	ug/L	43.6	13.1	20		12/05/18 17:15	179601-23-1	
o-Xylene	**1270**	ug/L	21.0	6.3	20		12/05/18 17:15	95-47-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Sample: MW-10 **Lab ID: 40180361008** Collected: 11/30/18 17:50 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		20		12/05/18 17:15	98-08-8	

Sample: MW-2 **Lab ID: 40180361009** Collected: 11/30/18 15:55 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**494**	ug/L	5.1	1.5	5		12/06/18 12:57	71-43-2	
Ethylbenzene	**124**	ug/L	5.5	1.6	5		12/06/18 12:57	100-41-4	
Methyl-tert-butyl ether	**2.9J**	ug/L	5.4	1.6	5		12/06/18 12:57	1634-04-4	
Naphthalene	**19.3**	ug/L	8.4	2.5	5		12/06/18 12:57	91-20-3	
Toluene	**609**	ug/L	8.2	2.4	5		12/06/18 12:57	108-88-3	
1,2,4-Trimethylbenzene	**56.4**	ug/L	5.7	1.7	5		12/06/18 12:57	95-63-6	
1,3,5-Trimethylbenzene	**13.4**	ug/L	5.4	1.6	5		12/06/18 12:57	108-67-8	
m&p-Xylene	**260**	ug/L	10.9	3.3	5		12/06/18 12:57	179601-23-1	
o-Xylene	**123**	ug/L	5.2	1.6	5		12/06/18 12:57	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		5		12/06/18 12:57	98-08-8	

Sample: MW-5R **Lab ID: 40180361010** Collected: 11/30/18 18:20 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**215**	ug/L	51.0	15.3	50		12/05/18 16:23	71-43-2	
Ethylbenzene	**1760**	ug/L	55.0	16.4	50		12/05/18 16:23	100-41-4	
Methyl-tert-butyl ether	**<16.0**	ug/L	53.5	16.0	50		12/05/18 16:23	1634-04-4	
Naphthalene	**605**	ug/L	84.0	25.3	50		12/05/18 16:23	91-20-3	
Toluene	**2240**	ug/L	81.5	24.4	50		12/05/18 16:23	108-88-3	
1,2,4-Trimethylbenzene	**2300**	ug/L	57.0	17.1	50		12/05/18 16:23	95-63-6	
1,3,5-Trimethylbenzene	**644**	ug/L	54.5	16.4	50		12/05/18 16:23	108-67-8	
m&p-Xylene	**5230**	ug/L	109	32.8	50		12/05/18 16:23	179601-23-1	
o-Xylene	**1710**	ug/L	52.5	15.8	50		12/05/18 16:23	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	112	%	80-120		50		12/05/18 16:23	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Sample: TRIP BLANK **Lab ID: 40180361011** Collected: 11/30/18 00:00 Received: 12/03/18 07:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.31**	ug/L	1.0	0.31	1		12/05/18 14:15	71-43-2	
Ethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 14:15	100-41-4	
Methyl-tert-butyl ether	**<0.32**	ug/L	1.1	0.32	1		12/05/18 14:15	1634-04-4	
Naphthalene	**<0.51**	ug/L	1.7	0.51	1		12/05/18 14:15	91-20-3	
Toluene	**<0.49**	ug/L	1.6	0.49	1		12/05/18 14:15	108-88-3	
1,2,4-Trimethylbenzene	**<0.34**	ug/L	1.1	0.34	1		12/05/18 14:15	95-63-6	
1,3,5-Trimethylbenzene	**<0.33**	ug/L	1.1	0.33	1		12/05/18 14:15	108-67-8	
m&p-Xylene	**<0.66**	ug/L	2.2	0.66	1		12/05/18 14:15	179601-23-1	
o-Xylene	**<0.32**	ug/L	1.0	0.32	1		12/05/18 14:15	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 14:15	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

QC Batch: 308390 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40180361001, 40180361002, 40180361003, 40180361004, 40180361005, 40180361006, 40180361007, 40180361008, 40180361009, 40180361010, 40180361011

METHOD BLANK: 1801466 Matrix: Water
Associated Lab Samples: 40180361001, 40180361002, 40180361003, 40180361004, 40180361005, 40180361006, 40180361007, 40180361008, 40180361009, 40180361010, 40180361011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/05/18 09:32	
1,3,5-Trimethylbenzene	ug/L	<0.33	1.1	12/05/18 09:32	
Benzene	ug/L	<0.31	1.0	12/05/18 09:32	
Ethylbenzene	ug/L	<0.33	1.1	12/05/18 09:32	
m&p-Xylene	ug/L	<0.66	2.2	12/05/18 09:32	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	12/05/18 09:32	
Naphthalene	ug/L	<0.51	1.7	12/05/18 09:32	
o-Xylene	ug/L	<0.32	1.0	12/05/18 09:32	
Toluene	ug/L	<0.49	1.6	12/05/18 09:32	
a,a,a-Trifluorotoluene (S)	%	107	80-120	12/05/18 09:32	

LABORATORY CONTROL SAMPLE & LCSD: 1801467 1801468

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	20.6	20.4	103	102	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	20.6	20.4	103	102	80-120	1	20	
Ethylbenzene	ug/L	20	22.0	22.0	110	110	80-120	0	20	
m&p-Xylene	ug/L	40	43.0	42.9	108	107	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.1	20.2	101	101	80-120	0	20	
Naphthalene	ug/L	20	18.5	18.7	93	93	80-120	1	20	
o-Xylene	ug/L	20	21.4	21.4	107	107	80-120	0	20	
Toluene	ug/L	20	21.3	21.2	107	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				107	106	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1801824 1801825

Parameter	Units	40180361001 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	<0.34	20	20	17.4	19.4	87	97	51-160	10	20	
1,3,5-Trimethylbenzene	ug/L	<0.33	20	20	15.7	18.6	79	93	56-146	17	20	
Benzene	ug/L	<0.31	20	20	21.4	21.8	107	109	71-137	2	20	
Ethylbenzene	ug/L	<0.33	20	20	22.1	22.8	110	114	71-141	3	20	
m&p-Xylene	ug/L	<0.66	40	40	40.2	43.0	101	108	66-141	7	20	
Methyl-tert-butyl ether	ug/L	<0.32	20	20	20.6	21.0	103	105	80-120	2	20	
Naphthalene	ug/L	<0.51	20	20	17.8	18.4	89	92	67-138	3	20	
o-Xylene	ug/L	<0.32	20	20	20.2	21.6	101	108	75-133	6	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1801824 1801825

Parameter	Units	40180361001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.49	20	20	21.7	22.3	109	112	76-134	3	20	
a,a,a-Trifluorotoluene (S)	%						107	107	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, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101399.40 DA SWAMP BAR
Pace Project No.: 40180361

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40180361001	MW-1	WI MOD GRO	308390		
40180361002	MW-3	WI MOD GRO	308390		
40180361003	MW-4	WI MOD GRO	308390		
40180361004	MW-11	WI MOD GRO	308390		
40180361005	PZ-1	WI MOD GRO	308390		
40180361006	MW-21	WI MOD GRO	308390		
40180361007	MW-20	WI MOD GRO	308390		
40180361008	MW-10	WI MOD GRO	308390		
40180361009	MW-2	WI MOD GRO	308390		
40180361010	MW-5R	WI MOD GRO	308390		
40180361011	TRIP BLANK	WI MOD GRO	308390		

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

Page 1 of 1

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40180361

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:	Endeavor Env. Serv. Inc.
Branch/Location:	Green Bay
Project Contact:	Joseph Ramcheck
Phone:	920-437-2997
Project Number:	P101399.40
Project Name:	DeSwamp Bar
Project State:	WI
Sampled By (Print):	Joseph Ramcheck
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Joseph Ramcheck
Mail To Company:	Endeavor Env. Serv. Inc
Mail To Address:	2280-B Saltscheider Ct Green Bay WI 54313
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC plus MTBE plus Naphthalene	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	11/30/18	1525	GW	N	B	X	ACCEPT W/C		
002	MW-3		1545				X			
003	MW-4		1615				X			
004	MW-11		1730				X			
005	PZ-1		1638				X			
006	MW-21		1715				X			
007	MW-20		1650				X			
008	MW-10		1750				X			
009	MW-2		1555				X			
010	MW-5R		1820				X			
011	Trip Blank		—	TB			X			

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

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/3/18 255		12/3/18 0755

PACE Project No.: 40180361

Receipt Temp = 1.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal: Present / Not Present

Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: Endeavor Env. Project # 40180361

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

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

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		3															2.5 / 5 / 10
007																		3															2.5 / 5 / 10
008																		3															2.5 / 5 / 10
009																		3															2.5 / 5 / 10
010																		3															2.5 / 5 / 10
011																		1															2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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

Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40180361

40180361

Client Name: Endeavor Env.

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

Tracking #:

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

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

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

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

Cooler Temperature Uncorr: /Corr: R01

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

Person examining contents:
Date: 12/13/18
Initials: RZ

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix:	W	
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 407		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 12/13/18

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX E

Indoor Air Sample Laboratory Analytical Reports

ESC
L·A·B S·C·I·E·N·C·E·S
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mike Ricker
Synergy Environmental Lab, LLC
1990 Prospect Court
Appleton, WI 54914

January 08, 2014

Date Received : January 02, 2014
Description : Air Sample

Sample ID : BASEMENT

Collected By : Joseph Ramcheck
Collection Date : 12/27/13 15:54

ESC Sample # : L676283-01

Site ID : DA SWAMP

Project # : P101399.40

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics									
Acetone	67-64-1	58.1	1.25	3.00	4.9	12.	TO-15	01/06/14	1
Allyl chloride	107-05-1	76.53	0.200	0.630	< 0.20	< 0.63	TO-15	01/06/14	1
Benzene	71-43-2	78.1	0.200	0.640	0.49	1.6	TO-15	01/06/14	1
Benzyl Chloride	100-44-7	127	0.200	1.00	< 0.20	< 1.0	TO-15	01/06/14	1
Bromodichloromethane	75-27-4	164	0.200	1.30	< 0.20	< 1.3	TO-15	01/06/14	1
Bromoform	75-25-2	253	0.600	6.20	< 0.60	< 6.2	TO-15	01/06/14	1
Bromomethane	74-83-9	94.9	0.200	0.780	< 0.20	< 0.78	TO-15	01/06/14	1
1,3-Butadiene	106-99-0	54.1	2.00	4.40	< 2.0	< 4.4	TO-15	01/06/14	1
Carbon disulfide	75-15-0	76.1	0.200	0.620	< 0.20	< 0.62	TO-15	01/06/14	1
Carbon tetrachloride	56-23-5	154	0.200	1.30	< 0.20	< 1.3	TO-15	01/06/14	1
Chlorobenzene	108-90-7	113	0.200	0.920	< 0.20	< 0.92	TO-15	01/06/14	1
Chloroethane	75-00-3	64.5	0.200	0.530	< 0.20	< 0.53	TO-15	01/06/14	1
Chloroform	67-66-3	119	0.200	0.970	< 0.20	< 0.97	TO-15	01/06/14	1
Chloromethane	74-87-3	50.5	0.200	0.410	0.28	0.58	TO-15	01/06/14	1
2-Chlorotoluene	95-49-8	126	0.200	1.00	< 0.20	< 1.0	TO-15	01/06/14	1
Cyclohexane	110-82-7	84.2	0.200	0.690	< 0.20	< 0.69	TO-15	01/06/14	1
Dibromochloromethane	124-48-1	208	0.200	1.70	< 0.20	< 1.7	TO-15	01/06/14	1
1,2-Dibromoethane	106-93-4	188	0.200	1.50	< 0.20	< 1.5	TO-15	01/06/14	1
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	< 0.20	< 1.2	TO-15	01/06/14	1
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	< 0.20	< 1.2	TO-15	01/06/14	1
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	< 0.20	< 1.2	TO-15	01/06/14	1
1,2-Dichloroethane	107-06-2	99	0.200	0.810	< 0.20	< 0.81	TO-15	01/06/14	1
1,1-Dichloroethane	75-34-3	98	0.200	0.800	< 0.20	< 0.80	TO-15	01/06/14	1
1,1-Dichloroethene	75-35-4	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	01/06/14	1
cis-1,2-Dichloroethene	156-59-2	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	01/06/14	1
trans-1,2-Dichloroethene	156-60-5	96.9	0.200	0.790	< 0.20	< 0.79	TO-15	01/06/14	1
1,2-Dichloropropane	78-87-5	113	0.200	0.920	< 0.20	< 0.92	TO-15	01/06/14	1
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.910	< 0.20	< 0.91	TO-15	01/06/14	1
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.910	< 0.20	< 0.91	TO-15	01/06/14	1
1,4-Dioxane	123-91-1	88.1	0.200	0.720	< 0.20	< 0.72	TO-15	01/06/14	1
Ethanol	64-17-5	46.1	15.8	30.0	500	940	TO-15	01/07/14	25
Ethylbenzene	100-41-4	106	0.200	0.870	< 0.20	< 0.87	TO-15	01/06/14	1
4-Ethyltoluene	622-96-8	120	0.200	0.980	< 0.20	< 0.98	TO-15	01/06/14	1
Trichlorofluoromethane	75-69-4	137.4	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.990	2.3	11.	TO-15	01/06/14	1
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.200	1.50	< 0.20	< 1.5	TO-15	01/06/14	1
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	< 0.20	< 1.4	TO-15	01/06/14	1
Heptane	142-82-5	100	0.200	0.820	0.24	0.98	TO-15	01/06/14	1
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.70	< 0.63	< 6.7	TO-15	01/06/14	1
n-Hexane	110-54-3	86.2	0.200	0.710	0.32	1.1	TO-15	01/06/14	1
Isopropylbenzene	98-82-8	120.2	0.200	0.980	< 0.20	< 0.98	TO-15	01/06/14	1
Methylene Chloride	75-09-2	84.9	0.200	0.690	1.1	3.8	TO-15	01/06/14	1
Methyl Butyl Ketone	591-78-6	100	1.25	5.10	< 1.3	< 5.1	TO-15	01/06/14	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.

Reported: 01/08/14 09:17 Printed: 01/08/14 09:17

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Mike Ricker
Synergy Environmental Lab, LLC
1990 Prospect Court
Appleton, WI 54914

January 08, 2014

Date Received : January 02, 2014
Description : Air Sample

Sample ID : BASEMENT

Collected By : Joseph Ramcheck
Collection Date : 12/27/13 15:54

ESC Sample # : L676283-01

Site ID : DA SWAMP

Project # : P101399.40

Parameter	Cas#	Mol Wght	RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK)	78-93-3	72.1	1.25	3.70	< 1.3	< 3.7	TO-15	01/06/14	1
4-Methyl-2-pentanone (MIBK)	108-10-1	100.1	1.25	5.10	< 1.3	< 5.1	TO-15	01/06/14	1
Methyl methacrylate	80-62-6	100.12	0.200	0.820	< 0.20	< 0.82	TO-15	01/06/14	1
MTBE	1634-04-4	88.1	0.200	0.720	< 0.20	< 0.72	TO-15	01/06/14	1
Naphthalene	91-20-3	128	0.630	3.30	< 0.63	< 3.3	TO-15	01/06/14	1
2-Propanol	67-63-0	60.1	1.25	3.10	2.0	4.9	TO-15	01/06/14	1
Propene	115-07-1	42.1	0.400	0.690	< 0.40	< 0.69	TO-15	01/06/14	1
Styrene	100-42-5	104	0.200	0.850	< 0.20	< 0.85	TO-15	01/06/14	1
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.40	< 0.20	< 1.4	TO-15	01/06/14	1
Tetrachloroethylene	127-18-4	166	0.200	1.40	< 0.20	< 1.4	TO-15	01/06/14	1
Tetrahydrofuran	109-99-9	72.1	0.200	0.590	0.27	0.80	TO-15	01/06/14	1
Toluene	108-88-3	92.1	0.200	0.750	2.0	7.5	TO-15	01/06/14	1
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.70	< 0.63	< 4.7	TO-15	01/06/14	1
1,1,1-Trichloroethane	71-55-6	133	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
1,1,2-Trichloroethane	79-00-5	133	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
Trichloroethylene	79-01-6	131	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.980	0.34	1.7	TO-15	01/06/14	1
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.980	0.20	0.98	TO-15	01/06/14	1
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.930	0.20	0.93	TO-15	01/06/14	1
Vinyl chloride	75-01-4	62.5	0.200	0.510	< 0.20	< 0.51	TO-15	01/06/14	1
Vinyl Bromide	593-60-2	106.95	0.200	0.870	< 0.20	< 0.87	TO-15	01/06/14	1
Vinyl acetate	108-05-4	86.1	0.200	0.700	< 0.20	< 0.70	TO-15	01/06/14	1
m&p-Xylene	1330-20-7	106	0.400	1.70	1.6	6.9	TO-15	01/06/14	1
o-Xylene	95-47-6	106	0.200	0.870	0.20	0.87	TO-15	01/06/14	1
1,4-Bromofluorobenzene	460-00-4				94.6	% Rec.	TO-15	01/06/14	1

RDL1 = ppbv , RDL2 = ug/m3
Note:
Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.

Reported: 01/08/14 09:17 Printed: 01/08/14 09:17

Summary of Remarks For Samples Printed
01/08/14 at 09:17:51

TSR Signing Reports: 341
R5 - Desired TAT

$1.00 MINV added 6.17.10 - BV

Sample: L676283-01 Account: SYNENVWI Received: 01/02/14 09:00 Due Date: 01/13/14 00:00 RPT Date: 01/08/14 09:17

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Synergy Environmental Lab, LLC
Mike Ricker
1990 Prospect Court

Appleton, WI 54914

Quality Assurance Report
Level II

L676283

January 08, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .2	ppb			WG700423	01/06/14 12:43
1,1,2,2-Tetrachloroethane	< .2	ppb			WG700423	01/06/14 12:43
1,1,2-Trichloroethane	< .2	ppb			WG700423	01/06/14 12:43
1,1,2-Trichlorotrifluoroethane	< .2	ppb			WG700423	01/06/14 12:43
1,1-Dichloroethane	< .2	ppb			WG700423	01/06/14 12:43
1,1-Dichloroethene	< .2	ppb			WG700423	01/06/14 12:43
1,2,4-Trichlorobenzene	< .63	ppb			WG700423	01/06/14 12:43
1,2,4-Trimethylbenzene	< .2	ppb			WG700423	01/06/14 12:43
1,2-Dibromoethane	< .2	ppb			WG700423	01/06/14 12:43
1,2-Dichlorobenzene	< .2	ppb			WG700423	01/06/14 12:43
1,2-Dichloroethane	< .2	ppb			WG700423	01/06/14 12:43
1,2-Dichloropropane	< .2	ppb			WG700423	01/06/14 12:43
1,2-Dichlorotetrafluoroethane	< .2	ppb			WG700423	01/06/14 12:43
1,3,5-Trimethylbenzene	< .2	ppb			WG700423	01/06/14 12:43
1,3-Butadiene	< 2	ppb			WG700423	01/06/14 12:43
1,3-Dichlorobenzene	< .2	ppb			WG700423	01/06/14 12:43
1,4-Dichlorobenzene	< .2	ppb			WG700423	01/06/14 12:43
1,4-Dioxane	< .2	ppb			WG700423	01/06/14 12:43
2,2,4-Trimethylpentane	< .2	ppb			WG700423	01/06/14 12:43
2-Butanone (MEK)	< 1.25	ppb			WG700423	01/06/14 12:43
2-Chlorotoluene	< .2	ppb			WG700423	01/06/14 12:43
2-Propanol	< 1.25	ppb			WG700423	01/06/14 12:43
4-Ethyltoluene	< .2	ppb			WG700423	01/06/14 12:43
4-Methyl-2-pentanone (MIBK)	< 1.25	ppb			WG700423	01/06/14 12:43
Acetone	< 1.25	ppb			WG700423	01/06/14 12:43
Allyl chloride	< .2	ppb			WG700423	01/06/14 12:43
Benzene	< .2	ppb			WG700423	01/06/14 12:43
Benzyl Chloride	< .2	ppb			WG700423	01/06/14 12:43
Bromodichloromethane	< .2	ppb			WG700423	01/06/14 12:43
Bromoform	< .6	ppb			WG700423	01/06/14 12:43
Bromomethane	< .2	ppb			WG700423	01/06/14 12:43
Carbon disulfide	< .2	ppb			WG700423	01/06/14 12:43
Carbon tetrachloride	< .2	ppb			WG700423	01/06/14 12:43
Chlorobenzene	< .2	ppb			WG700423	01/06/14 12:43
Dibromochloromethane	< .2	ppb			WG700423	01/06/14 12:43
Chloroethane	< .2	ppb			WG700423	01/06/14 12:43
Chloroform	< .2	ppb			WG700423	01/06/14 12:43
Chloromethane	< .2	ppb			WG700423	01/06/14 12:43
cis-1,2-Dichloroethene	< .2	ppb			WG700423	01/06/14 12:43
cis-1,3-Dichloropropene	< .2	ppb			WG700423	01/06/14 12:43
Cyclohexane	< .2	ppb			WG700423	01/06/14 12:43
Dichlorodifluoromethane	< .2	ppb			WG700423	01/06/14 12:43
Ethylbenzene	< .2	ppb			WG700423	01/06/14 12:43
Heptane	< .2	ppb			WG700423	01/06/14 12:43
Hexachloro-1,3-butadiene	< .63	ppb			WG700423	01/06/14 12:43
Isopropylbenzene	< .2	ppb			WG700423	01/06/14 12:43
m&p-Xylene	< .4	ppb			WG700423	01/06/14 12:43
Methyl Butyl Ketone	< 1.25	ppb			WG700423	01/06/14 12:43
Methyl methacrylate	< .2	ppb			WG700423	01/06/14 12:43
MTBE	< .2	ppb			WG700423	01/06/14 12:43
Methylene Chloride	< .2	ppb			WG700423	01/06/14 12:43
n-Hexane	< .2	ppb			WG700423	01/06/14 12:43
Naphthalene	< .63	ppb			WG700423	01/06/14 12:43
o-Xylene	< .2	ppb			WG700423	01/06/14 12:43
Propene	< .4	ppb			WG700423	01/06/14 12:43
Styrene	< .2	ppb			WG700423	01/06/14 12:43
Tetrachloroethylene	< .2	ppb			WG700423	01/06/14 12:43
Tetrahydrofuran	< .2	ppb			WG700423	01/06/14 12:43
Toluene	< .2	ppb			WG700423	01/06/14 12:43

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Appleton, WI 54914

Quality Assurance Report
Level II

L676283

January 08, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
trans-1,2-Dichloroethene	< .2	ppb			WG700423	01/06/14 12:43
trans-1,3-Dichloropropene	< .2	ppb			WG700423	01/06/14 12:43
Trichloroethylene	< .2	ppb			WG700423	01/06/14 12:43
Trichlorofluoromethane	< .2	ppb			WG700423	01/06/14 12:43
Vinyl acetate	< .2	ppb			WG700423	01/06/14 12:43
Vinyl Bromide	< .2	ppb			WG700423	01/06/14 12:43
Vinyl chloride	< .2	ppb			WG700423	01/06/14 12:43
1,4-Bromofluorobenzene		% Rec.	93.60	60-140	WG700423	01/06/14 12:43
Ethanol	< .63	ppb			WG700503	01/07/14 10:57
1,4-Bromofluorobenzene		% Rec.	89.80	60-140	WG700503	01/07/14 10:57

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	ppb	3.75	3.63	96.8	70-130	WG700423
1,1,2,2-Tetrachloroethane	ppb	3.75	3.82	102.	70-130	WG700423
1,1,2-Trichloroethane	ppb	3.75	3.81	102.	70-130	WG700423
1,1,2-Trichlorotrifluoroethane	ppb	3.75	3.65	97.4	70-130	WG700423
1,1-Dichloroethane	ppb	3.75	3.72	99.2	70-130	WG700423
1,1-Dichloroethene	ppb	3.75	3.75	99.9	70-130	WG700423
1,2,4-Trichlorobenzene	ppb	3.75	3.59	95.8	59.7-155	WG700423
1,2,4-Trimethylbenzene	ppb	3.75	3.76	100.	70-130	WG700423
1,2-Dibromoethane	ppb	3.75	3.76	100.	70-130	WG700423
1,2-Dichlorobenzene	ppb	3.75	3.65	97.3	70-130	WG700423
1,2-Dichloroethane	ppb	3.75	3.82	102.	70-130	WG700423
1,2-Dichloropropane	ppb	3.75	3.87	103.	70-130	WG700423
1,2-Dichlorotetrafluoroethane	ppb	3.75	3.67	97.8	70-130	WG700423
1,3,5-Trimethylbenzene	ppb	3.75	3.73	99.5	70-130	WG700423
1,3-Butadiene	ppb	3.75	3.87	103.	70-130	WG700423
1,3-Dichlorobenzene	ppb	3.75	3.67	98.0	70-130	WG700423
1,4-Dichlorobenzene	ppb	3.75	3.66	97.7	70-130	WG700423
1,4-Dioxane	ppb	3.75	3.59	95.9	70-130	WG700423
2,2,4-Trimethylpentane	ppb	3.75	3.77	100.	70-130	WG700423
2-Butanone (MEK)	ppb	3.75	3.80	101.	70-130	WG700423
2-Chlorotoluene	ppb	3.75	3.79	101.	70-130	WG700423
2-Propanol	ppb	3.75	3.98	106.	62.2-137	WG700423
4-Ethyltoluene	ppb	3.75	3.78	101.	70-130	WG700423
4-Methyl-2-pentanone (MIBK)	ppb	3.75	3.62	96.6	51.3-144	WG700423
Acetone	ppb	3.75	3.82	102.	70-130	WG700423
Allyl chloride	ppb	3.75	3.84	102.	70-130	WG700423
Benzene	ppb	3.75	3.83	102.	70-130	WG700423
Benzyl Chloride	ppb	3.75	3.69	98.3	70-130	WG700423
Bromodichloromethane	ppb	3.75	3.81	102.	70-130	WG700423
Bromoform	ppb	3.75	3.73	99.4	70-130	WG700423
Bromomethane	ppb	3.75	3.68	98.0	70-130	WG700423
Carbon disulfide	ppb	3.75	3.68	98.2	70-130	WG700423
Carbon tetrachloride	ppb	3.75	3.67	97.8	70-130	WG700423
Chlorobenzene	ppb	3.75	3.75	100.	70-130	WG700423
Dibromochloromethane	ppb	3.75	3.77	101.	70-130	WG700423
Chloroethane	ppb	3.75	3.72	99.3	70-130	WG700423
Chloroform	ppb	3.75	3.69	98.5	70-130	WG700423
Chloromethane	ppb	3.75	3.79	101.	70-130	WG700423
cis-1,2-Dichloroethene	ppb	3.75	3.76	100.	70-130	WG700423
cis-1,3-Dichloropropene	ppb	3.75	3.82	102.	70-130	WG700423
Cyclohexane	ppb	3.75	3.69	98.4	70-130	WG700423
Dichlorodifluoromethane	ppb	3.75	3.63	96.7	70-130	WG700423
Ethylbenzene	ppb	3.75	3.84	103.	70-130	WG700423

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LABORATORIES
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Synergy Environmental Lab, LLC
Mike Ricker
1990 Prospect Court

Appleton, WI 54914

Quality Assurance Report
Level II

L676283

January 08, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Heptane	ppb	3.75	3.94	105.	70-130	WG700423
Hexachloro-1,3-butadiene	ppb	3.75	3.47	92.5	55.7-144	WG700423
Isopropylbenzene	ppb	3.75	3.80	101.	70-130	WG700423
m&p-Xylene	ppb	7.5	7.44	99.2	70-130	WG700423
Methyl Butyl Ketone	ppb	3.75	3.53	94.2	36.5-155	WG700423
Methyl methacrylate	ppb	3.75	3.85	103.	70-130	WG700423
MTBE	ppb	3.75	3.78	101.	70-130	WG700423
Methylene Chloride	ppb	3.75	3.58	95.5	70-130	WG700423
n-Hexane	ppb	3.75	3.73	99.5	70-130	WG700423
Naphthalene	ppb	3.75	3.59	95.7	53.4-158	WG700423
o-Xylene	ppb	3.75	3.84	102.	70-130	WG700423
Propene	ppb	3.75	3.70	98.6	70-130	WG700423
Styrene	ppb	3.75	3.82	102.	70-130	WG700423
Tetrachloroethylene	ppb	3.75	3.67	98.0	70-130	WG700423
Tetrahydrofuran	ppb	3.75	3.82	102.	70-130	WG700423
Toluene	ppb	3.75	3.86	103.	70-130	WG700423
trans-1,2-Dichloroethene	ppb	3.75	3.70	98.6	70-130	WG700423
trans-1,3-Dichloropropene	ppb	3.75	3.88	103.	70-130	WG700423
Trichloroethylene	ppb	3.75	3.73	99.5	70-130	WG700423
Trichlorofluoromethane	ppb	3.75	3.59	95.8	70-130	WG700423
Vinyl acetate	ppb	3.75	4.16	111.	70-130	WG700423
Vinyl Bromide	ppb	3.75	3.66	97.6	70-130	WG700423
Vinyl chloride	ppb	3.75	3.73	99.4	70-130	WG700423
1,4-Bromofluorobenzene				103.0	60-140	WG700423
Ethanol	ppb	3.75	3.90	104.	52.6-145	WG700503
1,4-Bromofluorobenzene				101.0	60-140	WG700503

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	ppb	3.49	3.63	93.0	70-130	3.87	25	WG700423
1,1,2,2-Tetrachloroethane	ppb	3.69	3.82	98.0	70-130	3.34	25	WG700423
1,1,2-Trichloroethane	ppb	3.60	3.81	96.0	70-130	5.52	25	WG700423
1,1,2-Trichlorotrifluoroethane	ppb	3.50	3.65	93.0	70-130	4.40	25	WG700423
1,1-Dichloroethane	ppb	3.60	3.72	96.0	70-130	3.42	25	WG700423
1,1-Dichloroethene	ppb	3.57	3.75	95.0	70-130	4.70	25	WG700423
1,2,4-Trichlorobenzene	ppb	3.44	3.59	92.0	59.7-155	4.33	25	WG700423
1,2,4-Trimethylbenzene	ppb	3.58	3.76	96.0	70-130	4.82	25	WG700423
1,2-Dibromoethane	ppb	3.58	3.76	95.0	70-130	4.95	25	WG700423
1,2-Dichlorobenzene	ppb	3.55	3.65	95.0	70-130	2.71	25	WG700423
1,2-Dichloroethane	ppb	3.58	3.82	95.0	70-130	6.53	25	WG700423
1,2-Dichloropropane	ppb	3.64	3.87	97.0	70-130	6.00	25	WG700423
1,2-Dichlorotetrafluoroethane	ppb	3.49	3.67	93.0	70-130	4.91	25	WG700423
1,3,5-Trimethylbenzene	ppb	3.58	3.73	95.0	70-130	4.32	25	WG700423
1,3-Butadiene	ppb	3.63	3.87	97.0	70-130	6.35	25	WG700423
1,3-Dichlorobenzene	ppb	3.56	3.67	95.0	70-130	3.14	25	WG700423
1,4-Dichlorobenzene	ppb	3.54	3.66	94.0	70-130	3.46	25	WG700423
1,4-Dioxane	ppb	3.37	3.59	90.0	70-130	6.59	25	WG700423
2,2,4-Trimethylpentane	ppb	3.61	3.77	96.0	70-130	4.14	25	WG700423
2-Butanone (MEK)	ppb	3.54	3.80	94.0	70-130	7.27	25	WG700423
2-Chlorotoluene	ppb	3.65	3.79	97.0	70-130	3.69	25	WG700423
2-Propanol	ppb	3.95	3.98	105.	62.2-137	0.750	25	WG700423
4-Ethyltoluene	ppb	3.64	3.78	97.0	70-130	3.74	25	WG700423
4-Methyl-2-pentanone (MIBK)	ppb	3.40	3.62	91.0	51.3-144	6.36	25	WG700423
Acetone	ppb	3.67	3.82	98.0	70-130	3.80	25	WG700423
Allyl chloride	ppb	3.69	3.84	98.0	70-130	4.02	25	WG700423
Benzene	ppb	3.63	3.83	97.0	70-130	5.55	25	WG700423

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L676283

January 08, 2014

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzyl Chloride	ppb	3.54	3.69	94.0	70-130	4.01	25	WG700423
Bromodichloromethane	ppb	3.60	3.81	96.0	70-130	5.71	25	WG700423
Bromoform	ppb	3.58	3.73	96.0	70-130	3.94	25	WG700423
Bromomethane	ppb	3.52	3.68	94.0	70-130	4.20	25	WG700423
Carbon disulfide	ppb	3.52	3.68	94.0	70-130	4.37	25	WG700423
Carbon tetrachloride	ppb	3.53	3.67	94.0	70-130	3.87	25	WG700423
Chlorobenzene	ppb	3.57	3.75	95.0	70-130	5.14	25	WG700423
Dibromochloromethane	ppb	3.55	3.77	95.0	70-130	6.09	25	WG700423
Chloroethane	ppb	3.55	3.72	95.0	70-130	4.68	25	WG700423
Chloroform	ppb	3.56	3.69	95.0	70-130	3.78	25	WG700423
Chloromethane	ppb	3.64	3.79	97.0	70-130	4.07	25	WG700423
cis-1,2-Dichloroethene	ppb	3.59	3.76	96.0	70-130	4.64	25	WG700423
cis-1,3-Dichloropropene	ppb	3.61	3.82	96.0	70-130	5.75	25	WG700423
Cyclohexane	ppb	3.51	3.69	94.0	70-130	4.86	25	WG700423
Dichlorodifluoromethane	ppb	3.46	3.63	92.0	70-130	4.82	25	WG700423
Ethylbenzene	ppb	3.73	3.84	99.0	70-130	3.14	25	WG700423
Heptane	ppb	3.71	3.94	99.0	70-130	5.96	25	WG700423
Hexachloro-1,3-butadiene	ppb	3.25	3.47	87.0	55.7-144	6.38	25	WG700423
Isopropylbenzene	ppb	3.68	3.80	98.0	70-130	3.24	25	WG700423
m&p-Xylene	ppb	7.17	7.44	96.0	70-130	3.60	25	WG700423
Methyl Butyl Ketone	ppb	3.34	3.53	89.0	36.5-155	5.43	25	WG700423
Methyl methacrylate	ppb	3.62	3.85	97.0	70-130	6.00	25	WG700423
MTBE	ppb	3.65	3.78	97.0	70-130	3.54	25	WG700423
Methylene Chloride	ppb	3.43	3.58	91.0	70-130	4.32	25	WG700423
n-Hexane	ppb	3.58	3.73	95.0	70-130	4.24	25	WG700423
Naphthalene	ppb	3.33	3.59	89.0	53.4-158	7.60	25	WG700423
o-Xylene	ppb	3.72	3.84	99.0	70-130	3.05	25	WG700423
Propene	ppb	3.53	3.70	94.0	70-130	4.53	25	WG700423
Styrene	ppb	3.70	3.82	99.0	70-130	3.28	25	WG700423
Tetrachloroethylene	ppb	3.49	3.67	93.0	70-130	5.05	25	WG700423
Tetrahydrofuran	ppb	3.64	3.82	97.0	70-130	4.65	25	WG700423
Toluene	ppb	3.68	3.86	98.0	70-130	4.74	25	WG700423
trans-1,2-Dichloroethene	ppb	3.57	3.70	95.0	70-130	3.47	25	WG700423
trans-1,3-Dichloropropene	ppb	3.61	3.88	96.0	70-130	7.11	25	WG700423
Trichloroethylene	ppb	3.49	3.73	93.0	70-130	6.62	25	WG700423
Trichlorofluoromethane	ppb	3.46	3.59	92.0	70-130	3.67	25	WG700423
Vinyl acetate	ppb	3.99	4.16	106.	70-130	4.23	25	WG700423
Vinyl Bromide	ppb	3.53	3.66	94.0	70-130	3.46	25	WG700423
Vinyl chloride	ppb	3.55	3.73	94.0	70-130	5.01	25	WG700423
1,4-Bromofluorobenzene				102.0	60-140			WG700423
Ethanol	ppb	4.09	3.90	109.	52.6-145	4.86	25	WG700503
1,4-Bromofluorobenzene				101.0	60-140			WG700503

Batch number /Run number / Sample number cross reference

WG700423: R2874383: L676283-01
WG700503: R2874402: L676283-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L676283

January 08, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

Synergy Environmental Lab, LLC

1990 Prospect Court
Appleton, WI 54914

Billing Information:
Mike Ricker
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Analysis / Container / Preservative

Chain of Custody Page

ESC LAB SCIENCES

Report to: Mike Ricker

Email To: mricker@water-right.com

Project Description: Air Sample

City/State Collected: Seymour/WI

Phone: 920-830-2455
Fax: 920-733-0631

Client Project #: P10599.40

Lab Project #: SYNENVWI-AIR

Collected by (print): Joseph Ramcheck

Site/Facility ID #: De Swamp

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___ No X Yes
FAX? ___ No ___ Yes

L676393

L121

Account: SYNENVWI
Template: T90559
Prelogin: P452662
PSR: 341 - John Hawkins
PB:
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TO-15 Summa								Rem./Contaminant	Sample # (lab only)
Basement	Comp	Air	—	12/20/13	1554	1	X								5526394	
		Air				1	X									

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ______

Remarks:

5781 0506 7576

pH ______ Temp ______

Flow ______ Other ______

Hold #

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____	Condition: (lab use only)
	12/31/13	1200	FedEx		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Temp: °C Bottles Received: Ambi	COC Seal Intact: ___ Y ___ N ___ NA
Relinquished by: (Signature)	Date	Time	Received for lab by: (Signature)	Date: 1/2/14 Time: 0900	pH Checked: NCF:

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Report Summary

Wednesday January 08, 2014

Report Number: L676283
Samples Received: 01/02/14
Client Project: P101399.40

Description: Air Sample

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: John Hawkins

John Hawkins , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

ALS Environmental

25-Nov-2014

Joseph Ramcheck
Endeavor Environmental Services, Inc.
2280-B Salscheider Court
Green Bay, OH 54313

Tel: (920) 437-2997
Fax: (920) 437-3066

Re: Da Swamp;Project#P101399.40 Work Order: **1411377**

Dear Joseph,

ALS Environmental received 1 sample on 14-Nov-2014 10:13 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

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

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ALS Environmental

Date: 25-Nov-14

Client: Endeavor Environmental Services, Inc.
Project: Da Swamp;Project#P101399.40
Work Order: **1411377**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1411377-01	BASEMENT	Air		11/13/2014 10:04	11/14/2014 10:13	☐

Client:	Endeavor Environmental Services, Inc.
Project:	Da Swamp;Project#P101399.40
Work Order:	1411377

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental

Date: *25-Nov-14*

Client: Endeavor Environmental Services, Inc.
Project: Da Swamp;Project#P101399.40
Work Order: 1411377
Sample ID: BASEMENT
Lab ID: 1411377-01
Collection Date: 11/13/2014 10:04 AM
Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TO-15 BY GC/MS			ETO-15			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,3-Butadiene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,4-Dioxane	ND		1.0	ppbv	1	11/18/2014 04:14 PM
2-Butanone	**1.5**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
2-Hexanone	ND		0.50	ppbv	1	11/18/2014 04:14 PM
2-Propanol	**1.6**		**1.0**	**ppbv**	1	11/18/2014 04:14 PM
4-Ethyltoluene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
4-Methyl-2-pentanone	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Acetone	ND		1.0	ppbv	1	11/18/2014 04:14 PM
Benzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Benzyl chloride	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Bromodichloromethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Bromoform	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Bromomethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Carbon disulfide	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Carbon tetrachloride	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chloroform	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chloromethane	**0.78**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Cumene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Cyclohexane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Dibromochloromethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Dichlorodifluoromethane	**2.7**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM

Note:

ALS Environmental

Date: *25-Nov-14*

Client: Endeavor Environmental Services, Inc.
Project: Da Swamp;Project#P101399.40 **Work Order:** 1411377
Sample ID: BASEMENT **Lab ID:** 1411377-01
Collection Date: 11/13/2014 10:04 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Ethyl acetate	**1.9**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
Ethylbenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Freon 113	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Freon 114	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Heptane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Hexachlorobutadiene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Hexane	**1.0**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
m,p-Xylene	**0.72**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
Methylene chloride	**2.5**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
MTBE	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Naphthalene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
o-Xylene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Propene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Styrene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Tetrachloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Tetrahydrofuran	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Toluene	**5.1**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
trans-1,3-Dichloropropene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Trichloroethene	ND		0.20	ppbv	1	11/18/2014 04:14 PM
Trichlorofluoromethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Vinyl acetate	**0.93**		**0.50**	**ppbv**	1	11/18/2014 04:14 PM
Vinyl chloride	ND		0.50	ppbv	1	11/18/2014 04:14 PM
TO-15 BY GC/MS			**ETO-15**			Analyst: **MRJ**
1,1,1-Trichloroethane	ND		2.7	µg/m3	1	11/18/2014 04:14 PM
1,1,2,2-Tetrachloroethane	ND		3.4	µg/m3	1	11/18/2014 04:14 PM
1,1,2-Trichloroethane	ND		2.7	µg/m3	1	11/18/2014 04:14 PM
1,1-Dichloroethane	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
1,1-Dichloroethene	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
1,2,4-Trichlorobenzene	ND		3.7	µg/m3	1	11/18/2014 04:14 PM
1,2,4-Trimethylbenzene	ND		2.5	µg/m3	1	11/18/2014 04:14 PM
1,2-Dibromoethane	ND		3.8	µg/m3	1	11/18/2014 04:14 PM
1,2-Dichlorobenzene	ND		3.0	µg/m3	1	11/18/2014 04:14 PM
1,2-Dichloroethane	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
1,2-Dichloropropane	ND		2.3	µg/m3	1	11/18/2014 04:14 PM
1,3,5-Trimethylbenzene	ND		2.5	µg/m3	1	11/18/2014 04:14 PM
1,3-Butadiene	ND		1.1	µg/m3	1	11/18/2014 04:14 PM
1,3-Dichlorobenzene	ND		3.0	µg/m3	1	11/18/2014 04:14 PM
1,4-Dichlorobenzene	ND		3.0	µg/m3	1	11/18/2014 04:14 PM
1,4-Dioxane	ND		1.8	µg/m3	1	11/18/2014 04:14 PM

Note:

ALS Environmental

Date: *25-Nov-14*

Client: Endeavor Environmental Services, Inc.
Project: Da Swamp;Project#P101399.40 **Work Order:** 1411377
Sample ID: BASEMENT **Lab ID:** 1411377-01
Collection Date: 11/13/2014 10:04 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
2-Butanone	**4.4**		**1.5**	**µg/m3**	1	11/18/2014 04:14 PM
2-Hexanone	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
2-Propanol	**3.9**		**2.5**	**µg/m3**	1	11/18/2014 04:14 PM
4-Ethyltoluene	ND		2.5	µg/m3	1	11/18/2014 04:14 PM
4-Methyl-2-pentanone	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
Acetone	ND		2.4	µg/m3	1	11/18/2014 04:14 PM
Benzene	ND		1.6	µg/m3	1	11/18/2014 04:14 PM
Benzyl chloride	ND		2.6	µg/m3	1	11/18/2014 04:14 PM
Bromodichloromethane	ND		3.4	µg/m3	1	11/18/2014 04:14 PM
Bromoform	ND		5.2	µg/m3	1	11/18/2014 04:14 PM
Bromomethane	ND		1.9	µg/m3	1	11/18/2014 04:14 PM
Carbon disulfide	ND		1.6	µg/m3	1	11/18/2014 04:14 PM
Carbon tetrachloride	ND		3.1	µg/m3	1	11/18/2014 04:14 PM
Chlorobenzene	ND		2.3	µg/m3	1	11/18/2014 04:14 PM
Chloroethane	ND		1.3	µg/m3	1	11/18/2014 04:14 PM
Chloroform	ND		2.4	µg/m3	1	11/18/2014 04:14 PM
Chloromethane	**1.6**		**1.0**	**µg/m3**	1	11/18/2014 04:14 PM
cis-1,2-Dichloroethene	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
cis-1,3-Dichloropropene	ND		2.3	µg/m3	1	11/18/2014 04:14 PM
Cumene	ND		2.5	µg/m3	1	11/18/2014 04:14 PM
Cyclohexane	ND		1.7	µg/m3	1	11/18/2014 04:14 PM
Dibromochloromethane	ND		4.3	µg/m3	1	11/18/2014 04:14 PM
Dichlorodifluoromethane	**13**		**2.5**	**µg/m3**	1	11/18/2014 04:14 PM
Ethyl acetate	**6.9**		**1.8**	**µg/m3**	1	11/18/2014 04:14 PM
Ethylbenzene	ND		2.2	µg/m3	1	11/18/2014 04:14 PM
Freon 113	ND		3.8	µg/m3	1	11/18/2014 04:14 PM
Freon 114	ND		3.5	µg/m3	1	11/18/2014 04:14 PM
Heptane	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
Hexachlorobutadiene	ND		5.3	µg/m3	1	11/18/2014 04:14 PM
Hexane	**3.6**		**1.8**	**µg/m3**	1	11/18/2014 04:14 PM
m,p-Xylene	**3.1**		**2.2**	**µg/m3**	1	11/18/2014 04:14 PM
Methylene chloride	**8.6**		**1.7**	**µg/m3**	1	11/18/2014 04:14 PM
MTBE	ND		1.8	µg/m3	1	11/18/2014 04:14 PM
Naphthalene	ND		2.6	µg/m3	1	11/18/2014 04:14 PM
o-Xylene	ND		2.2	µg/m3	1	11/18/2014 04:14 PM
Propene	ND		0.86	µg/m3	1	11/18/2014 04:14 PM
Styrene	ND		2.1	µg/m3	1	11/18/2014 04:14 PM
Tetrachloroethene	ND		3.4	µg/m3	1	11/18/2014 04:14 PM
Tetrahydrofuran	ND		1.5	µg/m3	1	11/18/2014 04:14 PM
Toluene	**19**		**1.9**	**µg/m3**	1	11/18/2014 04:14 PM

Note:

ALS Environmental

Date: *25-Nov-14*

Client: Endeavor Environmental Services, Inc.
Project: Da Swamp;Project#P101399.40 **Work Order:** 1411377
Sample ID: BASEMENT **Lab ID:** 1411377-01
Collection Date: 11/13/2014 10:04 AM **Matrix:** AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		2.0	µg/m3	1	11/18/2014 04:14 PM
trans-1,3-Dichloropropene	ND		2.3	µg/m3	1	11/18/2014 04:14 PM
Trichloroethene	ND		1.1	µg/m3	1	11/18/2014 04:14 PM
Trichlorofluoromethane	ND		2.8	µg/m3	1	11/18/2014 04:14 PM
Vinyl acetate	**3.3**		**1.8**	**µg/m3**	1	11/18/2014 04:14 PM
Vinyl chloride	ND		1.3	µg/m3	1	11/18/2014 04:14 PM

Note:

Batch ID: **R113968** Instrument ID **VMS3** Method: **ETO-15**

MBLK Sample ID: **B-R113968** Units: **ppbv** Analysis Date: **11/18/2014 11:18 AM**

Client ID: Run ID: **VMS3_141118A** SeqNo: **957290** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.50								
1,1,2,2-Tetrachloroethane	ND	0.50								
1,1,2-Trichloroethane	ND	0.50								
1,1-Dichloroethane	ND	0.50								
1,1-Dichloroethene	ND	0.50								
1,2,4-Trichlorobenzene	ND	0.50								
1,2,4-Trimethylbenzene	ND	0.50								
1,2-Dibromoethane	ND	0.50								
1,2-Dichlorobenzene	ND	0.50								
1,2-Dichloroethane	ND	0.50								
1,2-Dichloropropane	ND	0.50								
1,3,5-Trimethylbenzene	ND	0.50								
1,3-Butadiene	ND	0.50								
1,3-Dichlorobenzene	ND	0.50								
1,4-Dichlorobenzene	ND	0.50								
1,4-Dioxane	ND	1.0								
2-Butanone	ND	0.50								
2-Hexanone	ND	0.50								
2-Propanol	ND	1.0								
4-Ethyltoluene	ND	0.50								
4-Methyl-2-pentanone	ND	0.50								
Acetone	ND	1.0								
Benzene	ND	0.50								
Benzyl chloride	ND	0.50								
Bromodichloromethane	ND	0.50								
Bromoform	ND	0.50								
Bromomethane	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.50								
Chlorobenzene	ND	0.50								
Chloroethane	ND	0.50								
Chloroform	ND	0.50								
Chloromethane	ND	0.50								
cis-1,2-Dichloroethene	ND	0.50								
cis-1,3-Dichloropropene	ND	0.50								
Cumene	ND	0.50								
Cyclohexane	ND	0.50								
Dibromochloromethane	ND	0.50								
Dichlorodifluoromethane	ND	0.50								
Ethyl acetate	ND	0.50								
Ethylbenzene	ND	0.50								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R113968** Instrument ID **VMS3** Method: **ETO-15**

Freon 113	ND	0.50					
Freon 114	ND	0.50					
Heptane	ND	0.50					
Hexachlorobutadiene	ND	0.50					
Hexane	ND	0.50					
m,p-Xylene	ND	0.50					
Methylene chloride	ND	0.50					
MTBE	ND	0.50					
Naphthalene	ND	0.50					
o-Xylene	ND	0.50					
Propene	ND	0.50					
Styrene	ND	0.50					
Tetrachloroethene	ND	0.50					
Tetrahydrofuran	ND	0.50					
Toluene	ND	0.50					
trans-1,2-Dichloroethene	ND	0.50					
trans-1,3-Dichloropropene	ND	0.50					
Trichloroethene	ND	0.20					
Trichlorofluoromethane	ND	0.50					
Vinyl acetate	ND	0.50					
Vinyl chloride	ND	0.50					
Surr: Bromofluorobenzene	9.87	0	*10*	0	*98.7*	*60-140*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1411377
Project: Da Swamp;Project#P101399.40

QC BATCH REPORT

Batch ID: **R113968** Instrument ID **VMS3** Method: **ETO-15**

LCS Sample ID: **lcs-R113968** Units: **ppbv** Analysis Date: **11/18/2014 10:38 AM**
Client ID: Run ID: **VMS3_141118A** SeqNo: **957289** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	10.41	0.50	10	0	104	58.8-163	0			
1,1,2,2-Tetrachloroethane	9.84	0.50	10	0	98.4	60-140	0			
1,1,2-Trichloroethane	10.59	0.50	10	0	106	60-140	0			
1,1-Dichloroethane	9.97	0.50	10	0	99.7	60-140	0			
1,1-Dichloroethene	9.58	0.50	10	0	95.8	60-140	0			
1,2,4-Trichlorobenzene	10.8	0.50	10	0	108	49.3-150	0			
1,2,4-Trimethylbenzene	10.65	0.50	10	0	106	50.1-162	0			
1,2-Dibromoethane	11.16	0.50	10	0	112	60-140	0			
1,2-Dichlorobenzene	8.27	0.50	10	0	82.7	41.9-141	0			
1,2-Dichloroethane	8.62	0.50	10	0	86.2	60-140	0			
1,2-Dichloropropane	10.21	0.50	10	0	102	60-140	0			
1,3,5-Trimethylbenzene	10.47	0.50	10	0	105	60-140	0			
1,3-Butadiene	11.12	0.50	10	0	111	50.6-140	0			
1,3-Dichlorobenzene	10.61	0.50	10	0	106	60-140	0			
1,4-Dichlorobenzene	10.42	0.50	10	0	104	55.1-145	0			
1,4-Dioxane	11.64	1.0	10	0	116	60-140	0			
2-Butanone	11.78	0.50	10	0	118	60-140	0			
2-Hexanone	9.16	0.50	10	0	91.6	56.2-162	0			
2-Propanol	9.26	1.0	10	0	92.6	60-140	0			
4-Ethyltoluene	11.08	0.50	10	0	111	60-140	0			
4-Methyl-2-pentanone	8.67	0.50	10	0	86.7	60-140	0			
Acetone	8.77	1.0	10	0	87.7	60-140	0			
Benzene	11.29	0.50	10	0	113	60-140	0			
Benzyl chloride	12.67	0.50	10	0	127	31.9-174	0			
Bromodichloromethane	9.65	0.50	10	0	96.5	60-140	0			
Bromoform	11.15	0.50	10	0	112	60-140	0			
Bromomethane	11.54	0.50	10	0	115	60-140	0			
Carbon disulfide	10.87	0.50	10	0	109	60-140	0			
Carbon tetrachloride	10.82	0.50	10	0	108	60-140	0			
Chlorobenzene	9.56	0.50	10	0	95.6	60-140	0			
Chloroethane	11.85	0.50	10	0	118	60-140	0			
Chloroform	10.05	0.50	10	0	100	60-140	0			
Chloromethane	11.48	0.50	10	0	115	60-140	0			
cis-1,2-Dichloroethene	9.53	0.50	10	0	95.3	60-140	0			
cis-1,3-Dichloropropene	11.83	0.50	10	0	118	60-140	0			
Cumene	9.14	0.50	10	0	91.4	60-140	0			
Cyclohexane	11.97	0.50	10	0	120	60-140	0			
Dibromochloromethane	11.44	0.50	10	0	114	60-140	0			
Dichlorodifluoromethane	9.55	0.50	10	0	95.5	60-140	0			
Ethyl acetate	10.7	0.50	10	0	107	60-140	0			
Ethylbenzene	9.97	0.50	10	0	99.7	60-140	0			
Freon 113	11.23	0.50	10	0	112	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1411377
Project: Da Swamp;Project#P101399.40

QC BATCH REPORT

Batch ID: **R113968** Instrument ID **VMS3** Method: **ETO-15**

Freon 114	10.08	0.50	10	0	101	60-140	0
Heptane	8.96	0.50	10	0	89.6	60-140	0
Hexachlorobutadiene	10.45	0.50	10	0	104	60-140	0
Hexane	11.07	0.50	10	0	111	60-140	0
m,p-Xylene	19.43	0.50	20	0	97.2	60-140	0
Methylene chloride	8.55	0.50	10	0	85.5	60-140	0
MTBE	11.38	0.50	10	0	114	60.8-151	0
o-Xylene	9.61	0.50	10	0	96.1	60-140	0
Propene	8.44	0.50	10	0	84.4	34.4-139	0
Styrene	11.32	0.50	10	0	113	60-140	0
Tetrachloroethene	12.09	0.50	10	0	121	60-140	0
Tetrahydrofuran	9.87	0.50	10	0	98.7	60-140	0
Toluene	11.45	0.50	10	0	114	60-140	0
trans-1,2-Dichloroethene	11.66	0.50	10	0	117	60-140	0
trans-1,3-Dichloropropene	10.66	0.50	10	0	107	60-140	0
Trichloroethene	10.31	0.20	10	0	103	60-140	0
Trichlorofluoromethane	8.65	0.50	10	0	86.5	60-140	0
Vinyl acetate	11.37	0.50	10	0	114	48.4-145	0
Vinyl chloride	11.71	0.50	10	0	117	60-140	0
Surr: Bromofluorobenzene	10.31	0	*10*	0	*103*	*60-140*	0

The following samples were analyzed in this batch: 1411377-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 25-Nov-14

Client:	Endeavor Environmental Services, Inc.
Project:	Da Swamp;Project#P101399.40
WorkOrder:	**1411377**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method

Units Reported	Description
µg/m3	
ppbv	

ALS Environmental

Sample Receipt Checklist

Client Name: ENDEAVOR-GREENBAY Date/Time Received: 14-Nov-14 10:13

Work Order: 1411377 Received by: JNW

Checklist completed by Stephanie Harrington (eSignature) 14-Nov-14 (Date) Reviewed by: Shawn Smythe (eSignature) 25-Nov-14 (Date)

Matrices:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):			
Cooler(s)/Kit(s):			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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

April 12, 2018

Joe Ramcheck
Endeavor Environmental
2280-B Salscheider Ct.
Green Bay, WI 54313

RE: Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne Trout

Carolynne Trout
carolynne.trout@pacelabs.com
1(612)607-6351
Project Manager

Enclosures

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

CERTIFICATIONS

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Minnesota Certification IDs
1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: 2929
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Massachusetts Certification #: M-MN064
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia DEP Certification #: 382
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10424997001	Basement	Air	03/24/18 11:40	03/27/18 10:50

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SAMPLE ANALYTE COUNT

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10424997001	**Basement**	TO-15	NCK	61	PASI-M

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ANALYTICAL RESULTS

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Sample: Basement **Lab ID: 10424997001** Collected: 03/24/18 11:40 Received: 03/27/18 10:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Acetone	**12.3**	ug/m3	3.5	2.2	1.44		04/11/18 21:27	67-64-1	
Benzene	**0.44J**	ug/m3	0.47	0.22	1.44		04/11/18 21:27	71-43-2	
Benzyl chloride	**<0.34**	ug/m3	3.8	0.34	1.44		04/11/18 21:27	100-44-7	
Bromodichloromethane	**<0.51**	ug/m3	2.0	0.51	1.44		04/11/18 21:27	75-27-4	
Bromoform	**<1.0**	ug/m3	7.6	1.0	1.44		04/11/18 21:27	75-25-2	
Bromomethane	**<0.30**	ug/m3	1.1	0.30	1.44		04/11/18 21:27	74-83-9	
1,3-Butadiene	**<0.30**	ug/m3	0.65	0.30	1.44		04/11/18 21:27	106-99-0	
2-Butanone (MEK)	**3.6J**	ug/m3	4.3	0.29	1.44		04/11/18 21:27	78-93-3	
Carbon disulfide	**<0.26**	ug/m3	0.91	0.26	1.44		04/11/18 21:27	75-15-0	
Carbon tetrachloride	**<0.46**	ug/m3	0.92	0.46	1.44		04/11/18 21:27	56-23-5	
Chlorobenzene	**<0.26**	ug/m3	1.3	0.26	1.44		04/11/18 21:27	108-90-7	
Chloroethane	**<0.29**	ug/m3	0.77	0.29	1.44		04/11/18 21:27	75-00-3	
Chloroform	**<0.33**	ug/m3	0.71	0.33	1.44		04/11/18 21:27	67-66-3	
Chloromethane	**1.2**	ug/m3	0.60	0.19	1.44		04/11/18 21:27	74-87-3	
Cyclohexane	**<0.33**	ug/m3	1.0	0.33	1.44		04/11/18 21:27	110-82-7	
Dibromochloromethane	**<0.64**	ug/m3	2.5	0.64	1.44		04/11/18 21:27	124-48-1	
1,2-Dibromoethane (EDB)	**<0.48**	ug/m3	2.2	0.48	1.44		04/11/18 21:27	106-93-4	
1,2-Dichlorobenzene	**<0.47**	ug/m3	1.8	0.47	1.44		04/11/18 21:27	95-50-1	
1,3-Dichlorobenzene	**<0.67**	ug/m3	1.8	0.67	1.44		04/11/18 21:27	541-73-1	
1,4-Dichlorobenzene	**<0.32**	ug/m3	1.8	0.32	1.44		04/11/18 21:27	106-46-7	
Dichlorodifluoromethane	**2.5**	ug/m3	1.5	0.60	1.44		04/11/18 21:27	75-71-8	
1,1-Dichloroethane	**<0.31**	ug/m3	1.2	0.31	1.44		04/11/18 21:27	75-34-3	
1,2-Dichloroethane	**<0.29**	ug/m3	0.59	0.29	1.44		04/11/18 21:27	107-06-2	
1,1-Dichloroethene	**<0.34**	ug/m3	1.2	0.34	1.44		04/11/18 21:27	75-35-4	
cis-1,2-Dichloroethene	**<0.49**	ug/m3	1.2	0.49	1.44		04/11/18 21:27	156-59-2	
trans-1,2-Dichloroethene	**<0.42**	ug/m3	1.2	0.42	1.44		04/11/18 21:27	156-60-5	
1,2-Dichloropropane	**<0.44**	ug/m3	1.4	0.44	1.44		04/11/18 21:27	78-87-5	
cis-1,3-Dichloropropene	**<0.35**	ug/m3	1.3	0.35	1.44		04/11/18 21:27	10061-01-5	
trans-1,3-Dichloropropene	**<0.60**	ug/m3	1.3	0.60	1.44		04/11/18 21:27	10061-02-6	
Dichlorotetrafluoroethane	**<0.64**	ug/m3	2.0	0.64	1.44		04/11/18 21:27	76-14-2	
Ethanol	**1960**	ug/m3	1.4	0.67	1.44		04/11/18 21:27	64-17-5	E
Ethyl acetate	**6.2**	ug/m3	1.1	0.28	1.44		04/11/18 21:27	141-78-6	
Ethylbenzene	**<0.25**	ug/m3	1.3	0.25	1.44		04/11/18 21:27	100-41-4	
4-Ethyltoluene	**<0.31**	ug/m3	1.4	0.31	1.44		04/11/18 21:27	622-96-8	
n-Heptane	**<0.30**	ug/m3	1.2	0.30	1.44		04/11/18 21:27	142-82-5	
Hexachloro-1,3-butadiene	**<1.3**	ug/m3	3.1	1.3	1.44		04/11/18 21:27	87-68-3	
n-Hexane	**<0.48**	ug/m3	1.0	0.48	1.44		04/11/18 21:27	110-54-3	
2-Hexanone	**<0.88**	ug/m3	6.0	0.88	1.44		04/11/18 21:27	591-78-6	
Methylene Chloride	**<2.2**	ug/m3	5.1	2.2	1.44		04/11/18 21:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<0.51**	ug/m3	6.0	0.51	1.44		04/11/18 21:27	108-10-1	
Methyl-tert-butyl ether	**<0.96**	ug/m3	5.3	0.96	1.44		04/11/18 21:27	1634-04-4	
Naphthalene	**<0.86**	ug/m3	3.8	0.86	1.44		04/11/18 21:27	91-20-3	
2-Propanol	**3.9**	ug/m3	3.6	1.8	1.44		04/11/18 21:27	67-63-0	
Propylene	**<0.23**	ug/m3	0.50	0.23	1.44		04/11/18 21:27	115-07-1	
Styrene	**<0.24**	ug/m3	1.2	0.24	1.44		04/11/18 21:27	100-42-5	
1,1,2,2-Tetrachloroethane	**<0.42**	ug/m3	1.0	0.42	1.44		04/11/18 21:27	79-34-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Sample: Basement **Lab ID: 10424997001** Collected: 03/24/18 11:40 Received: 03/27/18 10:50 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
Tetrachloroethene	**<0.41**	ug/m3	0.99	0.41	1.44		04/11/18 21:27	127-18-4	
Tetrahydrofuran	**<0.39**	ug/m3	0.86	0.39	1.44		04/11/18 21:27	109-99-9	
Toluene	**2.2**	ug/m3	1.1	0.23	1.44		04/11/18 21:27	108-88-3	
1,2,4-Trichlorobenzene	**<1.4**	ug/m3	10.9	1.4	1.44		04/11/18 21:27	120-82-1	
1,1,1-Trichloroethane	**<0.49**	ug/m3	1.6	0.49	1.44		04/11/18 21:27	71-55-6	
1,1,2-Trichloroethane	**<0.32**	ug/m3	0.80	0.32	1.44		04/11/18 21:27	79-00-5	
Trichloroethene	**<0.39**	ug/m3	0.79	0.39	1.44		04/11/18 21:27	79-01-6	
Trichlorofluoromethane	**1.4J**	ug/m3	1.6	0.60	1.44		04/11/18 21:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	**<0.53**	ug/m3	2.2	0.53	1.44		04/11/18 21:27	76-13-1	
1,2,4-Trimethylbenzene	**0.67J**	ug/m3	1.4	0.25	1.44		04/11/18 21:27	95-63-6	
1,3,5-Trimethylbenzene	**<0.59**	ug/m3	1.4	0.59	1.44		04/11/18 21:27	108-67-8	
Vinyl acetate	**2.5**	ug/m3	1.0	0.24	1.44		04/11/18 21:27	108-05-4	
Vinyl chloride	**<0.18**	ug/m3	0.37	0.18	1.44		04/11/18 21:27	75-01-4	
m&p-Xylene	**0.84J**	ug/m3	2.5	0.50	1.44		04/11/18 21:27	179601-23-1	
o-Xylene	**<0.53**	ug/m3	1.3	0.53	1.44		04/11/18 21:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

QC Batch: 531822 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 10424997001

METHOD BLANK: 2887883 Matrix: Air
Associated Lab Samples: 10424997001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.34	1.1	04/11/18 15:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	04/11/18 15:28	
1,1,2-Trichloroethane	ug/m3	<0.22	0.56	04/11/18 15:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.37	1.6	04/11/18 15:28	
1,1-Dichloroethane	ug/m3	<0.21	0.82	04/11/18 15:28	
1,1-Dichloroethene	ug/m3	<0.24	0.81	04/11/18 15:28	
1,2,4-Trichlorobenzene	ug/m3	<0.96	7.5	04/11/18 15:28	
1,2,4-Trimethylbenzene	ug/m3	<0.17	1.0	04/11/18 15:28	
1,2-Dibromoethane (EDB)	ug/m3	<0.33	1.6	04/11/18 15:28	
1,2-Dichlorobenzene	ug/m3	<0.33	1.2	04/11/18 15:28	
1,2-Dichloroethane	ug/m3	<0.20	0.41	04/11/18 15:28	
1,2-Dichloropropane	ug/m3	<0.31	0.94	04/11/18 15:28	
1,3,5-Trimethylbenzene	ug/m3	<0.41	1.0	04/11/18 15:28	
1,3-Butadiene	ug/m3	<0.21	0.45	04/11/18 15:28	
1,3-Dichlorobenzene	ug/m3	<0.47	1.2	04/11/18 15:28	
1,4-Dichlorobenzene	ug/m3	<0.22	1.2	04/11/18 15:28	
2-Butanone (MEK)	ug/m3	<0.20	3.0	04/11/18 15:28	
2-Hexanone	ug/m3	<0.61	4.2	04/11/18 15:28	
2-Propanol	ug/m3	<1.2	2.5	04/11/18 15:28	
4-Ethyltoluene	ug/m3	<0.21	1.0	04/11/18 15:28	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.36	4.2	04/11/18 15:28	
Acetone	ug/m3	<1.5	2.4	04/11/18 15:28	
Benzene	ug/m3	<0.15	0.32	04/11/18 15:28	
Benzyl chloride	ug/m3	<0.24	2.6	04/11/18 15:28	
Bromodichloromethane	ug/m3	<0.36	1.4	04/11/18 15:28	
Bromoform	ug/m3	<0.69	5.3	04/11/18 15:28	
Bromomethane	ug/m3	<0.21	0.79	04/11/18 15:28	
Carbon disulfide	ug/m3	<0.18	0.63	04/11/18 15:28	
Carbon tetrachloride	ug/m3	<0.32	0.64	04/11/18 15:28	
Chlorobenzene	ug/m3	<0.18	0.94	04/11/18 15:28	
Chloroethane	ug/m3	<0.20	0.54	04/11/18 15:28	
Chloroform	ug/m3	<0.23	0.50	04/11/18 15:28	
Chloromethane	ug/m3	<0.13	0.42	04/11/18 15:28	
cis-1,2-Dichloroethene	ug/m3	<0.34	0.81	04/11/18 15:28	
cis-1,3-Dichloropropene	ug/m3	<0.24	0.92	04/11/18 15:28	
Cyclohexane	ug/m3	<0.23	0.70	04/11/18 15:28	
Dibromochloromethane	ug/m3	<0.44	1.7	04/11/18 15:28	
Dichlorodifluoromethane	ug/m3	<0.42	1.0	04/11/18 15:28	
Dichlorotetrafluoroethane	ug/m3	<0.44	1.4	04/11/18 15:28	
Ethanol	ug/m3	<0.46	0.96	04/11/18 15:28	
Ethyl acetate	ug/m3	<0.20	0.73	04/11/18 15:28	

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QUALITY CONTROL DATA

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

METHOD BLANK: 2887883 Matrix: Air
Associated Lab Samples: 10424997001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.17	0.88	04/11/18 15:28	
Hexachloro-1,3-butadiene	ug/m3	<0.87	2.2	04/11/18 15:28	
m&p-Xylene	ug/m3	<0.35	1.8	04/11/18 15:28	
Methyl-tert-butyl ether	ug/m3	<0.67	3.7	04/11/18 15:28	
Methylene Chloride	ug/m3	<1.5	3.5	04/11/18 15:28	
n-Heptane	ug/m3	<0.21	0.83	04/11/18 15:28	
n-Hexane	ug/m3	<0.33	0.72	04/11/18 15:28	
Naphthalene	ug/m3	<0.60	2.7	04/11/18 15:28	
o-Xylene	ug/m3	<0.37	0.88	04/11/18 15:28	
Propylene	ug/m3	<0.16	0.35	04/11/18 15:28	
Styrene	ug/m3	<0.17	0.87	04/11/18 15:28	
Tetrachloroethene	ug/m3	<0.29	0.69	04/11/18 15:28	
Tetrahydrofuran	ug/m3	<0.27	0.60	04/11/18 15:28	
Toluene	ug/m3	<0.16	0.77	04/11/18 15:28	
trans-1,2-Dichloroethene	ug/m3	<0.30	0.81	04/11/18 15:28	
trans-1,3-Dichloropropene	ug/m3	<0.42	0.92	04/11/18 15:28	
Trichloroethene	ug/m3	<0.27	0.55	04/11/18 15:28	
Trichlorofluoromethane	ug/m3	<0.42	1.1	04/11/18 15:28	
Vinyl acetate	ug/m3	<0.17	0.72	04/11/18 15:28	
Vinyl chloride	ug/m3	<0.13	0.26	04/11/18 15:28	

LABORATORY CONTROL SAMPLE: 2887884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.7	104	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.0	107	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	63.1	114	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75.9	97	63-139	
1,1-Dichloroethane	ug/m3	41.1	41.3	100	70-134	
1,1-Dichloroethene	ug/m3	40.3	41.2	102	70-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.3	96	60-133	
1,2,4-Trimethylbenzene	ug/m3	50	60.2	120	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	90.7	116	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	63.0	103	70-137	
1,2-Dichloroethane	ug/m3	41.1	42.8	104	70-136	
1,2-Dichloropropane	ug/m3	47	50.8	108	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	58.3	117	70-133	
1,3-Butadiene	ug/m3	22.5	26.5	118	64-141	
1,3-Dichlorobenzene	ug/m3	61.1	59.8	98	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	61.9	101	70-134	
2-Butanone (MEK)	ug/m3	30	31.0	103	65-143	
2-Hexanone	ug/m3	41.6	52.5	126	60-148	
2-Propanol	ug/m3	125	137	109	65-135	
4-Ethyltoluene	ug/m3	50	49.3	99	70-132	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

LABORATORY CONTROL SAMPLE: 2887884

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	48.2	116	70-135	
Acetone	ug/m3	121	109	90	59-132	
Benzene	ug/m3	32.5	33.6	103	70-134	
Benzyl chloride	ug/m3	52.6	48.5	92	56-150	
Bromodichloromethane	ug/m3	68.1	79.5	117	70-142	
Bromoform	ug/m3	105	101	96	69-150	
Bromomethane	ug/m3	39.5	41.7	106	61-141	
Carbon disulfide	ug/m3	31.6	36.0	114	66-134	
Carbon tetrachloride	ug/m3	64	66.4	104	60-145	
Chlorobenzene	ug/m3	46.8	49.2	105	70-130	
Chloroethane	ug/m3	26.8	28.3	106	65-143	
Chloroform	ug/m3	49.6	49.6	100	70-132	
Chloromethane	ug/m3	21	22.5	107	58-140	
cis-1,2-Dichloroethene	ug/m3	40.3	45.0	112	70-136	
cis-1,3-Dichloropropene	ug/m3	46.1	47.4	103	70-136	
Cyclohexane	ug/m3	35	39.0	112	70-133	
Dibromochloromethane	ug/m3	86.6	88.7	102	68-149	
Dichlorodifluoromethane	ug/m3	50.3	48.7	97	69-130	
Dichlorotetrafluoroethane	ug/m3	71	71.8	101	68-130	
Ethanol	ug/m3	91.6	115	126	65-146	
Ethyl acetate	ug/m3	36.6	38.3	105	68-136	
Ethylbenzene	ug/m3	44.1	49.7	112	70-133	
Hexachloro-1,3-butadiene	ug/m3	108	128	118	59-140	
m&p-Xylene	ug/m3	88.3	99.0	112	70-133	
Methyl-tert-butyl ether	ug/m3	36.6	35.9	98	70-132	
Methylene Chloride	ug/m3	177	177	100	67-132	
n-Heptane	ug/m3	41.6	47.5	114	64-136	
n-Hexane	ug/m3	35.8	37.7	105	70-130	
Naphthalene	ug/m3	53.3	52.1	98	55-136	
o-Xylene	ug/m3	44.1	48.3	109	70-132	
Propylene	ug/m3	17.5	20.4	117	37-150	
Styrene	ug/m3	43.3	43.0	99	70-139	
Tetrachloroethene	ug/m3	68.9	71.0	103	70-133	
Tetrahydrofuran	ug/m3	30	33.7	112	62-141	
Toluene	ug/m3	38.3	42.5	111	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	44.1	109	70-132	
trans-1,3-Dichloropropene	ug/m3	46.1	46.4	101	70-135	
Trichloroethene	ug/m3	54.6	61.6	113	70-135	
Trichlorofluoromethane	ug/m3	57.1	54.6	96	59-140	
Vinyl acetate	ug/m3	35.8	31.9	89	57-150	
Vinyl chloride	ug/m3	26	29.4	113	70-141	

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QUALITY CONTROL DATA

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

SAMPLE DUPLICATE: 2889028

Parameter	Units	10424907001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.53		25	
1,1,2,2-Tetrachloroethane	ug/m3	ND	<0.45		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.35		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<0.57		25	
1,1-Dichloroethane	ug/m3	ND	<0.33		25	
1,1-Dichloroethene	ug/m3	ND	<0.37		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<1.5		25	
1,2,4-Trimethylbenzene	ug/m3	ND	1.3J		25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<0.52		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.51		25	
1,2-Dichloroethane	ug/m3	ND	<0.31		25	
1,2-Dichloropropane	ug/m3	ND	<0.47		25	
1,3,5-Trimethylbenzene	ug/m3	ND	<0.64		25	
1,3-Butadiene	ug/m3	ND	<0.32		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.72		25	
1,4-Dichlorobenzene	ug/m3	ND	<0.34		25	
2-Butanone (MEK)	ug/m3	ND	2.5J		25	
2-Hexanone	ug/m3	ND	<0.95		25	
2-Propanol	ug/m3	ND	3.7J		25	
4-Ethyltoluene	ug/m3	1.7	<0.33		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.55		25	
Acetone	ug/m3	9.6	6.7	36	25	R1
Benzene	ug/m3	0.69	0.71	3	25	
Benzyl chloride	ug/m3	ND	<0.37		25	
Bromodichloromethane	ug/m3	ND	<0.55		25	
Bromoform	ug/m3	ND	<1.1		25	
Bromomethane	ug/m3	ND	<0.32		25	
Carbon disulfide	ug/m3	ND	<0.28		25	
Carbon tetrachloride	ug/m3	ND	<0.49		25	
Chlorobenzene	ug/m3	ND	<0.28		25	
Chloroethane	ug/m3	ND	<0.32		25	
Chloroform	ug/m3	ND	<0.36		25	
Chloromethane	ug/m3	ND	<0.21		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.53		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.38		25	
Cyclohexane	ug/m3	ND	<0.35		25	
Dibromochloromethane	ug/m3	ND	<0.69		25	
Dichlorodifluoromethane	ug/m3	2.2	2.3	1	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.69		25	
Ethanol	ug/m3	16.7	16.1	4	25	
Ethyl acetate	ug/m3	ND	<0.30		25	
Ethylbenzene	ug/m3	ND	0.40J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.3		25	
m&p-Xylene	ug/m3	ND	1.4J		25	
Methyl-tert-butyl ether	ug/m3	ND	<1.0		25	
Methylene Chloride	ug/m3	ND	5.2J		25	
n-Heptane	ug/m3	ND	1.3J		25	

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

QUALITY CONTROL DATA

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

SAMPLE DUPLICATE: 2889028

Parameter	Units	10424907001 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Hexane	ug/m3	1.8	1.9	1	25	
Naphthalene	ug/m3	ND	<0.93		25	
o-Xylene	ug/m3	ND	<0.58		25	
Propylene	ug/m3	ND	<0.24		25	
Styrene	ug/m3	ND	<0.26		25	
Tetrachloroethene	ug/m3	ND	<0.44		25	
Tetrahydrofuran	ug/m3	ND	<0.42		25	
Toluene	ug/m3	4.2	4.2	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.46		25	
trans-1,3-Dichloropropene	ug/m3	ND	<0.65		25	
Trichloroethene	ug/m3	ND	<0.42		25	
Trichlorofluoromethane	ug/m3	ND	<0.65		25	
Vinyl acetate	ug/m3	ND	<0.26		25	
Vinyl chloride	ug/m3	ND	<0.20		25	

SAMPLE DUPLICATE: 2889044

Parameter	Units	10424997001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.49	<0.49		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.42	<0.42		25	
1,1,2-Trichloroethane	ug/m3	<0.32	<0.32		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.53		25	
1,1-Dichloroethane	ug/m3	<0.31	<0.31		25	
1,1-Dichloroethene	ug/m3	<0.34	<0.34		25	
1,2,4-Trichlorobenzene	ug/m3	<1.4	<1.4		25	
1,2,4-Trimethylbenzene	ug/m3	0.67J	0.65J		25	
1,2-Dibromoethane (EDB)	ug/m3	<0.48	<0.48		25	
1,2-Dichlorobenzene	ug/m3	<0.47	<0.47		25	
1,2-Dichloroethane	ug/m3	<0.29	<0.29		25	
1,2-Dichloropropane	ug/m3	<0.44	<0.44		25	
1,3,5-Trimethylbenzene	ug/m3	<0.59	<0.59		25	
1,3-Butadiene	ug/m3	<0.30	<0.30		25	
1,3-Dichlorobenzene	ug/m3	<0.67	<0.67		25	
1,4-Dichlorobenzene	ug/m3	<0.32	<0.32		25	
2-Butanone (MEK)	ug/m3	3.6J	3.8J		25	
2-Hexanone	ug/m3	<0.88	<0.88		25	
2-Propanol	ug/m3	3.9	4.0	5	25	
4-Ethyltoluene	ug/m3	<0.31	<0.31		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.51	<0.51		25	
Acetone	ug/m3	12.3	12.6	3	25	
Benzene	ug/m3	0.44J	0.41J		25	
Benzyl chloride	ug/m3	<0.34	<0.34		25	
Bromodichloromethane	ug/m3	<0.51	<0.51		25	
Bromoform	ug/m3	<1.0	<1.0		25	
Bromomethane	ug/m3	<0.30	<0.30		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

SAMPLE DUPLICATE: 2889044

Parameter	Units	10424997001 Result	Dup Result	RPD	Max RPD	Qualifiers
Carbon disulfide	ug/m3	<0.26	<0.26		25	
Carbon tetrachloride	ug/m3	<0.46	<0.46		25	
Chlorobenzene	ug/m3	<0.26	<0.26		25	
Chloroethane	ug/m3	<0.29	<0.29		25	
Chloroform	ug/m3	<0.33	<0.33		25	
Chloromethane	ug/m3	1.2	1.1	8	25	
cis-1,2-Dichloroethene	ug/m3	<0.49	<0.49		25	
cis-1,3-Dichloropropene	ug/m3	<0.35	<0.35		25	
Cyclohexane	ug/m3	<0.33	<0.33		25	
Dibromochloromethane	ug/m3	<0.64	<0.64		25	
Dichlorodifluoromethane	ug/m3	2.5	2.4	1	25	
Dichlorotetrafluoroethane	ug/m3	<0.64	<0.64		25	
Ethanol	ug/m3	1960	1980	1	25	E
Ethyl acetate	ug/m3	6.2	6.4	3	25	
Ethylbenzene	ug/m3	<0.25	<0.25		25	
Hexachloro-1,3-butadiene	ug/m3	<1.3	<1.3		25	
m&p-Xylene	ug/m3	0.84J	0.87J		25	
Methyl-tert-butyl ether	ug/m3	<0.96	<0.96		25	
Methylene Chloride	ug/m3	<2.2	<2.2		25	
n-Heptane	ug/m3	<0.30	<0.30		25	
n-Hexane	ug/m3	<0.48	<0.48		25	
Naphthalene	ug/m3	<0.86	<0.86		25	
o-Xylene	ug/m3	<0.53	<0.53		25	
Propylene	ug/m3	<0.23	<0.23		25	
Styrene	ug/m3	<0.24	<0.24		25	
Tetrachloroethene	ug/m3	<0.41	<0.41		25	
Tetrahydrofuran	ug/m3	<0.39	<0.39		25	
Toluene	ug/m3	2.2	2.2	1	25	
trans-1,2-Dichloroethene	ug/m3	<0.42	<0.42		25	
trans-1,3-Dichloropropene	ug/m3	<0.60	<0.60		25	
Trichloroethene	ug/m3	<0.39	<0.39		25	
Trichlorofluoromethane	ug/m3	1.4J	1.4J		25	
Vinyl acetate	ug/m3	2.5	2.5	0	25	
Vinyl chloride	ug/m3	<0.18	<0.18		25	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

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

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

R1 RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101399.40 DaSwamp Bar
Pace Project No.: 10424997

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10424997001	**Basement**	TO-15	531822		

Pace Analytical®	Document Name: Air Sample Condition Upon Receipt	Document Revised: 28Dec2017 Page 1 of 1
	Document No.: F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office

Air Sample Condition Upon Receipt

Client Name: Endeavor Env. Services

Project #: **WO#: 10424997**

PM: MEM1 Due Date: 04/09/18

CLIENT: Endeavor

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

Tracking Number: 7476 3006 2266

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: ☐ 151401163 ☐ G87A9155100842

Temp should be above freezing to 6°C Correction Factor: X Date & Initials of Person Examining Contents: 3-27-18 AG

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. Individually Certified Cans Y (N) (list which samples)
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	12.

Samples Received: FFFT Pressure Gauge # 10AIR26

Canisters					Canisters				
Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure	Sample Number	Can ID	Flow Controller	Initial Pressure	Final Pressure
Basement			-2	+5					

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

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Megan McCabe Date: 3/28/18

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)

WO#: 10424997

10424997

Pace Analytical®
www.pacelabs.com

AIR: CHAIN-OF-CUSTODY / A

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant f

31967

Page: 1 of 1

Section A Required Client Information:

Company:	Endeavor Env. Services Inc
Address:	2280-B S. Schneider Ct
	Green Bay WI 54313
Email To:	jramcheck@endeavorenv.com
Phone:	920-437-2997 Fax: 920-437-3066
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Joe Ramcheck
Copy To:	N/A
Purchase Order No.:	
Project Name:	Da Swamp Bar
Project Number:	P10/399.40

Section C Invoice Information:

Attention:	
Company Name:	Same as Client
Address:	
Pace Quote Reference:	
Pace Project Manager/Sales Rep.	
Pace Profile #:	32018

Program: [X] 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: 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 #	AIR SAMPLE ID (Sample IDs MUST BE UNIQUE)	MEDIA CODE	PID Reading (Client only)	Composite Start DATE	Composite Start TIME	Composite - End/Grab DATE	Composite - End/Grab TIME	Canister Pressure (Initial Field - in Hg)	Canister Pressure (Final Field - in Hg)	Summa Can Number	Flow Control Number	PM10	3C - Fixed Gas (%)	TO-3 BTEX	TO-3M (Methane)	TO-14	TO-15 Full List VOCs	TO-15 Short List BTEX	TO-15 Short List Chlorinated	TO-15 Short List (other)	Pace Lab ID
1	Basement		NA	3/23/18	1140	3/23/18	1140	-30	-4	2098	1013						X				001
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments: Reference order # 31582

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	3/26/18	0930	[signature] PACE	3-27-18	1050

SAMPLE CONDITIONS

Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
—	Y/N	Y/N	Y/N
	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: Joe Ramcheck

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 03/24/18

ORIGINAL

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414 Air Technical Phone: 612.607.6386

FC046Rev.01, 03Feb2010