REI
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

September 18, 2017

Wisconsin Department of Natural Resources
Attn: Mr. Ralph Smith
101 S. Webster Street
PO Box 7921
Madison, WI 53707-7921

Subject:

Update Report
Burnett Oil Company
26504 Minnow Avenue
Webster, WI
BRRTS #02-07-282564
PECFA #54893-8024-14

Dear Mr. Smith:

Enclosed is the Update Report for the above-mentioned site. REI has identified residual soil contamination on the subject property. Groundwater analytical results document no petroleum related groundwater contamination above detection limits in any of the locations sampled in 2017.

REI is recommending the completion of a soil excavation to remove the documented soil contamination. REI is not recommending further groundwater sampling at this time.

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at dlarsen@reiengineering.com.

Sincerely,
REI Engineering, Inc.

David N. Larsen, P.G.
Hydrogeologist/Project Manager

Enclosure

CC: Burnett County, Attn: Mr. Nathan Ehalt, 7410 County Road K, #116, Webster, WI 54872

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Update Report

Burnett Oil Company
Webster, Wisconsin

WDNR BRRTS #02-07-282564
PECFA #54893-8024-14
REI Project #6962

COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

BRRTS #02-07-282564
PECFA #54893-8024-14

REI #6962

PREPARED FOR:

Burnett County
Attn: Mr. Nathan Ehalt
7410 Cty Road K, #116
Siren, WI 54872

SEPTEMBER 2017

UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

BRRTS #02-07-282564
PECFA #54893-8024-14

REI #6962

The recommendations contained in this report are based on the information obtained from our study of the site and were arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location.

"I, David N. Larsen, hereby certify that I am a registered Professional Geologist in the State of Wisconsin as defined in the Wisconsin Statutes Chapter 470.01. I am also a hydrogeologist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

"I, Scott J. Blado, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Scott J Blado — Environmental Scientist

9/18/17 — Date

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UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

BRRTS #02-07-282564
PECFA #54893-8024-14

REI #6962

1.0 INTRODUCTION

The Burnett Oil Company site is located in the NE ¼ of the SE ¼ of Section 08, Township 39 North, Range 16 West, in the Village of Webster, Burnett County, Wisconsin (Figure l). The site address is 26504 Minnow Avenue, Webster, Wisconsin, 54893. Wisconsin Transverse Mercator (WTM) coordinates are 336177, 603362.

Following the completion of the Environmental Site Investigation Report, it was determined that additional soil and groundwater sampling was required to adequately define the degree and extent of the historic petroleum release. Additionally, the locations identified for soil samples (GP2-GP6) were inadvertently misrepresented on the figures included in the Environmental Site Investigation Report. Actual boring locations are depicted in this report.

2.0 SUMMARY OF ACTIVITIES

2.1 Geoprobe Borings

REI was on-site to oversee the advancement of four (4) Geoprobe push borings (GP7-GP10) on June 12, 2017. Gestra Engineering, Inc., Milwaukee, WI was subcontracted to complete the Geoprobe advancement. Boring depths ranged from fifteen (15) feet to thirty-five (35) feet.

Figure 2 documents the locations of the soil borings advanced during the site investigation. Soil Boring Logs (WDNR Form 4400-122) and Borehole Abandonment Forms (WDNR Form 3300-5) are included in Appendix A. Methods and Procedures are included in Appendix B.

A total of twelve (12) soil samples and one (1) groundwater sample were collected and submitted for laboratory analysis during this scope of services, in addition to the twenty (20) soil samples and one (1) groundwater sample collected in 2016. Soil samples were obtained to describe the lateral and vertical extent of the petroleum contamination in the subsurface. The soil borings performed during the Burnett Oil investigation indicate the site geology consists mainly of gravel and sand fill material overlying layers of clay and sand to a depth of approximately ten (10) feet below land surface (bls) overlying fine to medium grained sands. Groundwater has been observed at a depth of approximately thirty (30) feet bls.

Analytical results were directly compared against the State of Wisconsin's cleanup criteria listed in the Chapter NR720. Numerous soil sample locations document the presence of petroleum compounds exceeding the NR720.09(04) Residual Contaminant Level (RCL). Additionally, direct contact exceedances were identified in many of the shallow soil samples collected at the site. Soil analytical results are summarized on Tables 1a-c. A copy of the laboratory analytical report is included in Appendix C. Figure 3 presents the estimated extent of petroleum related soil contamination.

2.2 Groundwater Sampling Results

A total of six (6) monitoring wells were installed during the investigation. Monitoring wells MW1, MW2 and MW3 were installed specifically for the Burnett Oil investigation. Monitoring wells MW91-1, MW91-2A and MW91-2B were transferred to the Burnett Oil investigation from the Webster State Lead investigation. Additionally, two (2) groundwater samples were collected from temporary wells installed at Geoprobe boring locations GP2 and GP9. Locations of the borings and wells are presented on Figure 2.

Measured depth to groundwater and groundwater elevations are presented in Table 2. A summary of groundwater analytical results are presented in Tables 3a-h. An excess of four (4) well volumes was removed from each well prior to sampling by REI personnel. All purge water was properly disposed of at the City of Wausau waste water treatment facility. Groundwater samples were collected and submitted to a State certified laboratory for chemical analysis. Copies of the analytical chemistry reports are presented in Appendix C.

Groundwater sample results for the July 7, 2017 sampling event document no groundwater contamination in concentrations exceeding the NR 140.10 Groundwater Quality Enforcement Standards (ES) or Preventive Action Limit (PAL) for petroleum compounds at any of the sample locations.

Vertical gradients were also calculated across the MW91-2A and MW91-2B well nest. Measured depths to groundwater across the MW91-2A and MW91-2B well nest document a minimal downward gradient for the September 2016 sample event and a static level for the July 2017 sample event (Table 2b).

A groundwater contour map was prepared for the July 7, 2017 groundwater sampling event for the water table wells (Figure 4). The westerly groundwater flow direction is consistent with historical groundwater flow directions.

3.0 Conclusion

REI is recommending the completion of a soil excavation at the Burnett Oil site to remove the known contaminant mass and limit any potential contaminant loading to groundwater. Additional groundwater sampling is not recommended at this time.

Table 1a
Summary of Soil Analytical Results
Geoprobe Borings
Burnett Oil Company
Webster, Wisconsin

	Sample Location-->		GP1		GP2			GP3		GP4		GP5			GP6	
		Date-->	8/10/16		8/10/16			8/10/16		8/10/16		8/10/16			8/10/16	
	Sample Depth--(Feet)>		2-4	6-7	2-3	8-9	14-15	2-4	14-15	2-4	14-15	2-4	9-10	19-20	2-4	14-*15
	Percent Moisture-->		17.70%	17.70%	24.20%	19.30%	20.40%	18.00%	12.30%	9.40%	7.00%	10.40%	8.70%	3.40%	30.60%	4.90%
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)														
Lead (mg/kg)	400	13.50	**40.3**	3.8	8.7	**20.3**	1.2*	4.0	1.2*	2.3	0.93*	11.1	4.2	0.95*	**34.3**	1.0*
Petroleum VOC's (µg/kg)																
Benzene	1,490	5.1	< 2,560	**1,410**	< 556	< 247	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	***4,670***	**13,300**	< 26.0	< 40.3	< 37.3
Ethylbenzene	7,470	1,570	***33,700***	**6,450**	1,530	993	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	***24,800***	**51,100**	< 26.0	< 40.3	< 37.3
Toluene	818,000	1,107	< 2,560	**1,240**	< 556	< 247	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	**2,140**	**68,100**	< 26.0	< 40.3	< 37.3
Xylenes (Total)	258,000	3,940	**210,900**	**35,200**	**6,150**	3,590	< 55.6	< 54.3	< 50.0	< 68.5	< 82.0	**192,500**	**308,400**	< 52.1	< 80.6	< 74.6
Methly tert Butyl Ether	59,400	27	< 2,560	< 200	< 556	< 247	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	< 906	< 1,710	< 26.0	< 40.3	< 37.3
1,2,4-Trimethylbenzene	89,800	NS	***250,000***	23,900	18,400	11,100	36.4*	< 27.2	< 25.0	< 34.2	< 41.0	***120,000***	179,000	< 26.0	< 40.3	< 37.3
1,3,5-Trimethylbenzene	182,000	NS	***118,000***	10,500	10,100	5,090	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	44,600	64,900	< 26.0	< 40.3	< 37.3
Trimethylbenzenes (Total)	NS	1,379	**368,000**	**34,400**	**28,500**	**16,190**	36.4*	< 27.2	< 25.0	< 34.2	< 41.0	**164,600**	**243,900**	< 26.0	< 40.3	< 37.3
Naphthalene	5,150	658.7	***110,000***	**9,150**	***26,300***	**14,100**	306	< 27.2	< 25.0	< 34.2	< 41.0	***37,600***	**66,800**	< 26.0	< 40.3	< 37.3
PAH Compounds (µg/kg)																
Acenaphthene	3,440,000	NS	1,890*	< 253	199*	240	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	NS	< 1,450	< 227	< 98.4	108*	< 9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,200,000	197,744.2	< 1,680	< 262	< 114	< 107	< 10.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene	148	NS	< 1,120	< 175	< 72.6	< 71.6	< 7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	15	470	< 1,160	< 181	< 78.6	< 73.9	< 7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene	148	480	< 1,620	< 253	< 110	< 103	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)Perylene	NS	NS	< 1,230	< 193	< 83.8	< 78.7	< 8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	1,480	NS	< 1,790	< 280	< 122	< 114	< 11.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	14,800	145.1	< 1,500	< 234	< 102	< 95.5	< 9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	15	NS	< 1,190	< 186	< 80.7	< 75.8	< 7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,290,000	88,817.9	< 1,620	< 253	< 110	< 1,032	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,290,000	14,814.8	4,210	< 253	347	408	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	148	NS	< 1,230	< 192	< 83.6	< 78.5	< 8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyl Naphthalene	15,600	NS	***35,500***	4,330	2,260	3,350	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl Naphthalene	229,000	NS	49,000	6,460	2,910	4,230	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5,150	658.7	***26,700***	**3,740**	**897**	**1,310**	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	NS	4,910	388*	407	491	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,720,000	54,472.5	< 1,620	< 253	< 110	< 103	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Number of Individual Exceedances (DC)-->			6	0	1	0						4	0			
Cumulative Hazard Index (DC)-->			4.0165	0.3828	0.432	0.2117						1.861	2.9277			
Cumulative Cancer Risk (DC)-->			1.10E-04	3.60E-06	5.70E-06	3.00E-06						1.40E-05	2.90E-05			

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence **Bold**

NTEDC RCL exceedance ***Bold***

NS - No Standard

NA - Not Analyzed

* = Estimated Value between detection limit and quantification limit

Table 1b
Summary of Soil Analytical Results
Geoprobe Borings
Burnett Oil Company
Webster, Wisconsin

	Sample Location-->		GP7			GP8			GP9			GP10		
		Date-->	6/12/17			6/12/17			6/12/17			6/12/17		
	Sample Depth--(Feet)>		2.5-3.0	13-15	18-20	2-4	6-8	18-20	0.5-1.0	5-6	19-20	2-4	7.5	9-10
		PID-->	75.3	0.0	0.0	0.0	0.0	0.0	67.2	0.0	0.0	0.0	305	1.6
	Percent Moisture-->		16.4	3.9	4.0	14.9	11.9	23.3	19.6	16.7	3.6	10	10.7	11.8
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)												
Lead (mg/kg)	400	13.50	4.3	0.88[J]	1.0*	3.2	1.9	0.73*	**66.7**	4.8	0.75*	2.7	2.8	0.84*
Petroleum VOC's (µg/kg)														
Benzene	1,600	5.1	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	< 820	< 37.9
Ethylbenzene	8,020	1,570	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	**9,550**	< 37.9
Toluene	818,000	1,107	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	< 820	< 37.9
Xylenes (Total)	260,000	3,940	< 250	< 50	< 50	< 58.1	< 50	< 50	1,897*	< 50	< 53.2	< 53.2	**20,800**	< 75.8
Methly tert Butyl Ether	63,800	27	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	< 820	< 37.9
1,2,4-Trimethylbenzene	219,000	NS	< 125	< 25	< 25	< 29.1	< 25	< 25	3,440	< 25	< 26.6	< 26.6	24,000	< 37.9
1,3,5-Trimethylbenzene	182,000	NS	< 125	< 25	< 25	< 29.1	< 25	< 25	2,210	< 25	< 26.6	< 26.6	12,200	< 37.9
Trimethylbenzenes (Total)	NS	1,379	< 125	< 25	< 25	< 29.1	< 25	< 25	**5,650**	< 25	< 26.6	< 26.6	**36,200**	< 37.9
Naphthalene	5,520	658.7	***6,870***	< 25	26.9*	< 29.1	< 25	< 25	***14,800***	< 25	< 26.6	< 26.6	**41,400**	< 37.9

Notes:

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GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence **Bold**

NTEDC RCL exceedance ***Bold***

NS - No Standard

NA - Not Analyzed

* = Estimated Value between detection limit and quantification limit

Table 1c
Summary of Soil Analytical Results
Monitoring Wells
Burnett Oil Company
Webster, Wisconsin

	Sample Location-->		MW1			MW4		
		Date-->	9/14/16			9/15/16		
	Sample Depth--(Feet)>		2-4	14-16	26-28	2-3	12-14	24-26
	Percent Moisture-->		13.10%	4.70%	5.40%	10.90%	4.10%	4.50%
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)						
Lead (mg/kg)	400	13.50	2.8	0.57*	0.94*	25.6	1.9	1.1*
Petroleum VOC's (µg/kg)								
Benzene	1,490	5.1	< 25.0	< 25.0	< 25.0	***2,560****	< 25.0	< 25.0
Ethylbenzene	7,470	1,570	< 25.0	< 25.0	< 25.0	***13,100***	< 25.0	< 25.0
Toluene	818,000	1,107	< 25.0	< 25.0	< 25.0	**2,510***	< 25.0	< 25.0
Xylenes (Total)	258,000	3,940	< 50.0	< 50.0	< 50.0	**133,100**	< 50.0	< 50.0
Methly tert Butyl Ether	59,400	27	< 25.0	< 25.0	< 25.0	< 1,000	< 25.0	< 25.0
1,2,4-Trimethylbenzene	89,800	NS	< 25.0	< 25.0	< 25.0	***128,000***	< 25.0	< 25.0
1,3,5-Trimethylbenzene	182,000	NS	< 25.0	< 25.0	< 25.0	52,500	< 25.0	< 25.0
Trimethylbenzenes (Total)	NS	1,379	< 25.0	< 25.0	< 25.0	**180,500**	< 25.0	< 25.0
Naphthalene	5,150	658.7	< 25.0	< 25.0	< 25.0	***53,500***	< 25.0	< 25.0
Number of Individual Exceedances (DC)-->						4		
Cumulative Hazard Index (DC)-->						1.9554		
Cumulative Cancer Risk (DC)-->						1.40E-05		

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence	**Bold**
NTEDC RCL exceedance	***Bold***

NS - No Standard

NA - Not Analyzed

* = Estimated Value between detection limit and quantification limit

Table 2a
Burnett Oil Company
Depth to Water and Water Level Elevations
Webster, WI

Depth to Water (feet) below Reference Elevation

Date	MW1	MW2	MW3	MW4	MW91-1	MW91-2A	MW91-2B
9/14/2016					31.90	32.84	32.25
9/20/2016	33.63	32.46	32.20	29.11			
7/7/2017	33.44	32.26	32.00	28.99	31.59	32.62	32.01

Measuring Point Elevations (top of well casing)

Initial Survey	985.84	984.80	984.56	981.90	984.35	985.65	985.04

Ground Surface Elevation

Initial Survey	982.71	982.26	981.75	981.97	981.76	983.31	983.31

Depth to Water (feet) below Top of Casing

Average	33.54	32.36	32.10	29.05	31.75	32.73	32.13
Maximum	33.63	32.46	32.20	29.11	31.90	32.84	32.25
Minimum	33.44	32.26	32.00	28.99	31.59	32.62	32.01
Range	0.19	0.20	0.20	0.12	0.31	0.22	0.24

Water Level Elevation (feet MSL)

Date	MW1	MW2	MW3	MW4	MW91-1	MW91-2A	MW91-2B
9/14/2016					952.45	952.81	952.79
9/20/2016	952.21	952.34	952.36	952.79			
7/7/2017	952.40	952.54	952.56	952.91	952.76	953.03	953.03

Table 2b
Vertical Gradient Documentation
Burnett Oil Company
Webster, WI

	Piezometer Depth (ft)	Water Level Elevation	Elevation Difference	Vertical Difference	Vertical Gradient ft/ft (+/-)
September 14, 2016					
MW91-2A		952.81	0.02	36.00	-0.0006
MW91-2B	69	952.79			
July 7, 2017					
MW91-2A		953.03	0.00	987.28	0.0000
MW91-2B	69	953.03			

Piezometer midpoint calculated from center of well screen

Table 3a
Summary of Groundwater Analytical Results
Geoprobe Borings
Burnett Oil Company
Webster, WI

		Location --->		GP2	GP9
	ES	PAL	Units	5/27/1993	05/27/93
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.40	< 0.40
Ethylbenzene	700	140	µg/l	0.62*	< 0.39
Toluene	800	160	µg/l	1.1	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	1.5	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	1.4*	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	4.6	< 0.42
Naphthalene	100	10	µg/l	7	< 0.42

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded	**BOLD**
Preventive Action Limit exceeded	*Italics*

Table 3b
Summary of Groundwater Analytical Results
MW1
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/20/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 0.30	NA
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.50	< 0.40
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39
Toluene	800	160	µg/l	< 0.50	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42
Naphthalene	100	10	µg/l	< 2.5	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.22	NA
n-Propylbenzene			µg/l	< 0.50	NA
Isopropylbenzene			µg/l	< 0.14	NA
n-Butylbenzene			µg/l	< 0.50	NA
tert-Butylbenzene			µg/l	< 0.18	NA
PAH Parameters					
Acenaphthene			µg/l	0.0060*	NA
Acenaphthylene			µg/l	< 0.0045	NA
Anthracene	3,000	600	µg/l	< 0.0094	NA
Benzo(a)Anthracene			µg/l	< 0.0068	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	< 0.0095	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	< 0.0052	NA
Benzo(ghi)Perylene			µg/l	< 0.0061	NA
Benzo(k)Fluoranthene			µg/l	< 0.0068	NA
Chrysene	0.2	0.02	µg/l	< 0.012	NA
Dibenzo(a,h)anthracene			µg/l	< 0.0090	NA
Fluoranthene	400	80	µg/l	< 0.0096	NA
Fluorene	400	80	µg/l	< 0.0072	NA
Indeno(1,2,3-cd)Pyrene			µg/l	< 0.013	NA
1-Methyl Naphthalene			µg/l	0.4	NA
2-Methyl Naphthalene			µg/l	0.36	NA
Naphthalene	100	10	µg/l	0.040*	NA
Phenanthrene			µg/l	< 0.012	NA
Pyrene	250	50	µg/l	0.0089*	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded	**BOLD**
Preventive Action Limit exceeded	*Italics*

Table 3c
Summary of Groundwater Analytical Results
MW2
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/20/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 0.30	NA
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.50	< 0.40
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39
Toluene	800	160	µg/l	< 0.50	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42
Naphthalene	100	10	µg/l	< 2.5	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.22	NA
n-Propylbenzene			µg/l	< 0.50	NA
Isopropylbenzene			µg/l	< 0.14	NA
n-Butylbenzene			µg/l	< 0.50	NA
tert-Butylbenzene			µg/l	< 0.18	NA
PAH Parameters					
Acenaphthene			µg/l	0.0060*	NA
Acenaphthylene			µg/l	0.028	NA
Anthracene	3,000	600	µg/l	0.013*	NA
Benzo(a)Anthracene			µg/l	< 0.0069	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	*0.026**	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	*0.029*	NA
Benzo(ghi)Perylene			µg/l	0.016*	NA
Benzo(k)Fluoranthene			µg/l	0.014*	NA
Chrysene	0.2	0.02	µg/l	*0.041**	NA
Dibenzo(a,h)anthracene			µg/l	< 0.0092	NA
Fluoranthene	400	80	µg/l	0.014*	NA
Fluorene	400	80	µg/l	< 0.0073	NA
Indeno(1,2,3-cd)Pyrene			µg/l	< 0.016	NA
1-Methyl Naphthalene			µg/l	0.025*	NA
2-Methyl Naphthalene			µg/l	0.031	NA
Naphthalene	100	10	µg/l	0.019*	NA
Phenanthrene			µg/l	0.031*	NA
Pyrene	250	50	µg/l	0.021*	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation

Enforcement Standard exceeded	**BOLD**
Preventive Action Limit exceeded	*Italics*

Table 3d
Summary of Groundwater Analytical Results
MW3
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/20/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 0.30	NA
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.50	< 0.40
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39
Toluene	800	160	µg/l	< 0.50	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42
Naphthalene	100	10	µg/l	< 2.5	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.22	NA
n-Propylbenzene			µg/l	< 0.50	NA
Isopropylbenzene			µg/l	< 0.14	NA
n-Butylbenzene			µg/l	< 0.50	NA
tert-Butylbenzene			µg/l	< 0.18	NA
PAH Parameters					
Acenaphthene			µg/l	< 0.0056	NA
Acenaphthylene			µg/l	< 0.0046	NA
Anthracene	3,000	600	µg/l	< 0.0096	NA
Benzo(a)Anthracene			µg/l	< 0.0069	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	< 0.0097	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	< 0.0053	NA
Benzo(ghi)Perylene			µg/l	< 0.0062	NA
Benzo(k)Fluoranthene			µg/l	< 0.0069	NA
Chrysene	0.2	0.02	µg/l	< 0.012	NA
Dibenzo(a,h)anthracene			µg/l	< 0.0092	NA
Fluoranthene	400	80	µg/l	< 0.0098	NA
Fluorene	400	80	µg/l	< 0.0073	NA
Indeno(1,2,3-cd)Pyrene			µg/l	< 0.016	NA
1-Methyl Naphthalene			µg/l	0.022*	NA
2-Methyl Naphthalene			µg/l	0.0049*	NA
Naphthalene	100	10	µg/l	< 0.017	NA
Phenanthrene			µg/l	< 0.013	NA
Pyrene	250	50	µg/l	< 0.0070	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 3e
Summary of Groundwater Analytical Results
MW4
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/20/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 3.0	NA
VOC Parameters					
Benzene	5	0.5	µg/l	0.069*	< 0.40
Ethylbenzene	700	140	µg/l	1.6	< 0.39
Toluene	800	160	µg/l	1.6	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	26.6	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	32.1	< 0.42
Naphthalene	100	10	µg/l	4.3*	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.22	NA
n-Propylbenzene			µg/l	0.57*	NA
Isopropylbenzene			µg/l	0.24*	NA
n-Butylbenzene			µg/l	< 0.50	NA
tert-Butylbenzene			µg/l	< 0.18	NA
PAH Parameters					
Acenaphthene			µg/l	0.18	NA
Acenaphthylene			µg/l	0.057	NA
Anthracene	3,000	600	µg/l	0.045*	NA
Benzo(a)Anthracene			µg/l	< 0.0068	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	< 0.0095	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	< 0.0052	NA
Benzo(ghi)Perylene			µg/l	< 0.0061	NA
Benzo(k)Fluoranthene			µg/l	< 0.0068	NA
Chrysene	0.2	0.02	µg/l	< 0.012	NA
Dibenzo(a,h)anthracene			µg/l	< 0.0090	NA
Fluoranthene	400	80	µg/l	0.013*	NA
Fluorene	400	80	µg/l	0.47	NA
Indeno(1,2,3-cd)Pyrene			µg/l	< 0.016	NA
1-Methyl Naphthalene			µg/l	3.5	NA
2-Methyl Naphthalene			µg/l	4.1	NA
Naphthalene	100	10	µg/l	2.7	NA
Phenanthrene			µg/l	0.59	NA
Pyrene	250	50	µg/l	0.041	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 3f
Summary of Groundwater Analytical Results
MW91-1
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/14/16	09/21/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 3.0	NA	NA
VOC Parameters						
Benzene	5	0.5	µg/l	< 0.50	NA	< 0.40
Ethylbenzene	700	140	µg/l	< 0.50	NA	< 0.39
Toluene	800	160	µg/l	< 0.50	NA	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	NA	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	NA	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	NA	< 0.42
Naphthalene	100	10	µg/l	< 2.5	NA	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.50	NA	NA
n-Propylbenzene			µg/l	< 0.50	NA	NA
Isopropylbenzene			µg/l	< 0.14	NA	NA
n-Butylbenzene			µg/l	< 0.50	NA	NA
tert-Butylbenzene			µg/l	< 0.18	NA	NA
PAH Parameters						
Acenaphthene			µg/l	NA	< 0.0057	NA
Acenaphthylene			µg/l	NA	< 0.0047	NA
Anthracene	3,000	600	µg/l	NA	< 0.0099	NA
Benzo(a)Anthracene			µg/l	NA	< 0.0071	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	NA	< 0.0099	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	NA	< 0.0054	NA
Benzo(ghi)Perylene			µg/l	NA	< 0.064	NA
Benzo(k)Fluoranthene			µg/l	NA	< 0.0071	NA
Chrysene	0.2	0.02	µg/l	NA	< 0.012	NA
Dibenzo(a,h)anthracene			µg/l	NA	< 0.0095	NA
Fluoranthene	400	80	µg/l	NA	< 0.010	NA
Fluorene	400	80	µg/l	NA	< 0.0075	NA
Indeno(1,2,3-cd)Pyrene			µg/l	NA	< 0.017	NA
1-Methyl Naphthalene			µg/l	NA	< 0.0056	NA
2-Methyl Naphthalene			µg/l	NA	< 0.0046	NA
Naphthalene	100	10	µg/l	NA	< 0.017	NA
Phenanthrene			µg/l	NA	< 0.013	NA
Pyrene	250	50	µg/l	NA	< 0.0072	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 3g
Summary of Groundwater Analytical Results
MW91-2A
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/14/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 3.0	NA
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.50	< 0.40
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39
Toluene	800	160	µg/l	< 0.50	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42
Naphthalene	100	10	µg/l	< 2.5	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.50	NA
n-Propylbenzene			µg/l	< 0.50	NA
Isopropylbenzene			µg/l	< 0.14	NA
n-Butylbenzene			µg/l	< 0.50	NA
tert-Butylbenzene			µg/l	< 0.18	NA
PAH Parameters					
Acenaphthene			µg/l	< 0.0055	NA
Acenaphthylene			µg/l	< 0.0045	NA
Anthracene	3,000	600	µg/l	< 0.0095	NA
Benzo(a)Anthracene			µg/l	< 0.0069	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	< 0.0096	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	< 0.0052	NA
Benzo(ghi)Perylene			µg/l	< 0.0062	NA
Benzo(k)Fluoranthene			µg/l	< 0.0069	NA
Chrysene	0.2	0.02	µg/l	< 0.012	NA
Dibenzo(a,h)anthracene			µg/l	< 0.0091	NA
Fluoranthene	400	80	µg/l	< 0.0097	NA
Fluorene	400	80	µg/l	< 0.0072	NA
Indeno(1,2,3-cd)Pyrene			µg/l	< 0.016	NA
1-Methyl Naphthalene			µg/l	< 0.0054	NA
2-Methyl Naphthalene			µg/l	< 0.0045	NA
Naphthalene	100	10	µg/l	< 0.017	NA
Phenanthrene			µg/l	< 0.013	NA
Pyrene	250	50	µg/l	< 0.0070	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

Table 3h
Summary of Groundwater Analytical Results
MW91-2B
Burnett Oil Company
Webster, WI

Detected Parameters	ES	PAL	Units	09/14/16	07/07/17
Lead (Dissolved)	15	1.5	µg/l	< 0.30	NA
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.50	< 0.40
Ethylbenzene	700	140	µg/l	< 0.50	< 0.39
Toluene	800	160	µg/l	< 0.50	< 0.39
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	< 0.48
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	< 0.80
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	< 0.42
Naphthalene	100	10	µg/l	< 2.5	< 0.42
Dibromochloromethane	60	6	µg/l	< 0.50	NA
n-Propylbenzene			µg/l	< 0.50	NA
Isopropylbenzene			µg/l	< 0.14	NA
n-Butylbenzene			µg/l	< 0.50	NA
tert-Butylbenzene			µg/l	< 0.18	NA
PAH Parameters					
Acenaphthene			µg/l	< 0.0071	NA
Acenaphthylene			µg/l	< 0.0059	NA
Anthracene	3,000	600	µg/l	< 0.012	NA
Benzo(a)Anthracene			µg/l	< 0.0089	NA
Benzo(a)Pyrene	0.2	0.02	µg/l	< 0.012	NA
Benzo(b)Fluoranthene	0.2	0.02	µg/l	< 0.0068	NA
Benzo(ghi)Perylene			µg/l	< 0.0080	NA
Benzo(k)Fluoranthene			µg/l	< 0.0089	NA
Chrysene	0.2	0.02	µg/l	< 0.015	NA
Dibenzo(a,h)anthracene			µg/l	< 0.012	NA
Fluoranthene	400	80	µg/l	< 0.013	NA
Fluorene	400	80	µg/l	< 0.0094	NA
Indeno(1,2,3-cd)Pyrene			µg/l	< 0.021	NA
1-Methyl Naphthalene			µg/l	< 0.0069	NA
2-Methyl Naphthalene			µg/l	< 0.0091*	NA
Naphthalene	100	10	µg/l	< 0.022	NA
Phenanthrene			µg/l	< 0.016	NA
Pyrene	250	50	µg/l	< 0.0090	NA

Notes:
ES = NR140.10 Enforcement Standards
PAL = NR140.10 Preventive Action Limits
ND = Not Detected
NA = Not Analyzed
* = Estimated value, concentration between the Limit of Detection and the Limit of Quantitation
Enforcement Standard exceeded **BOLD**
Preventive Action Limit exceeded *Italics*

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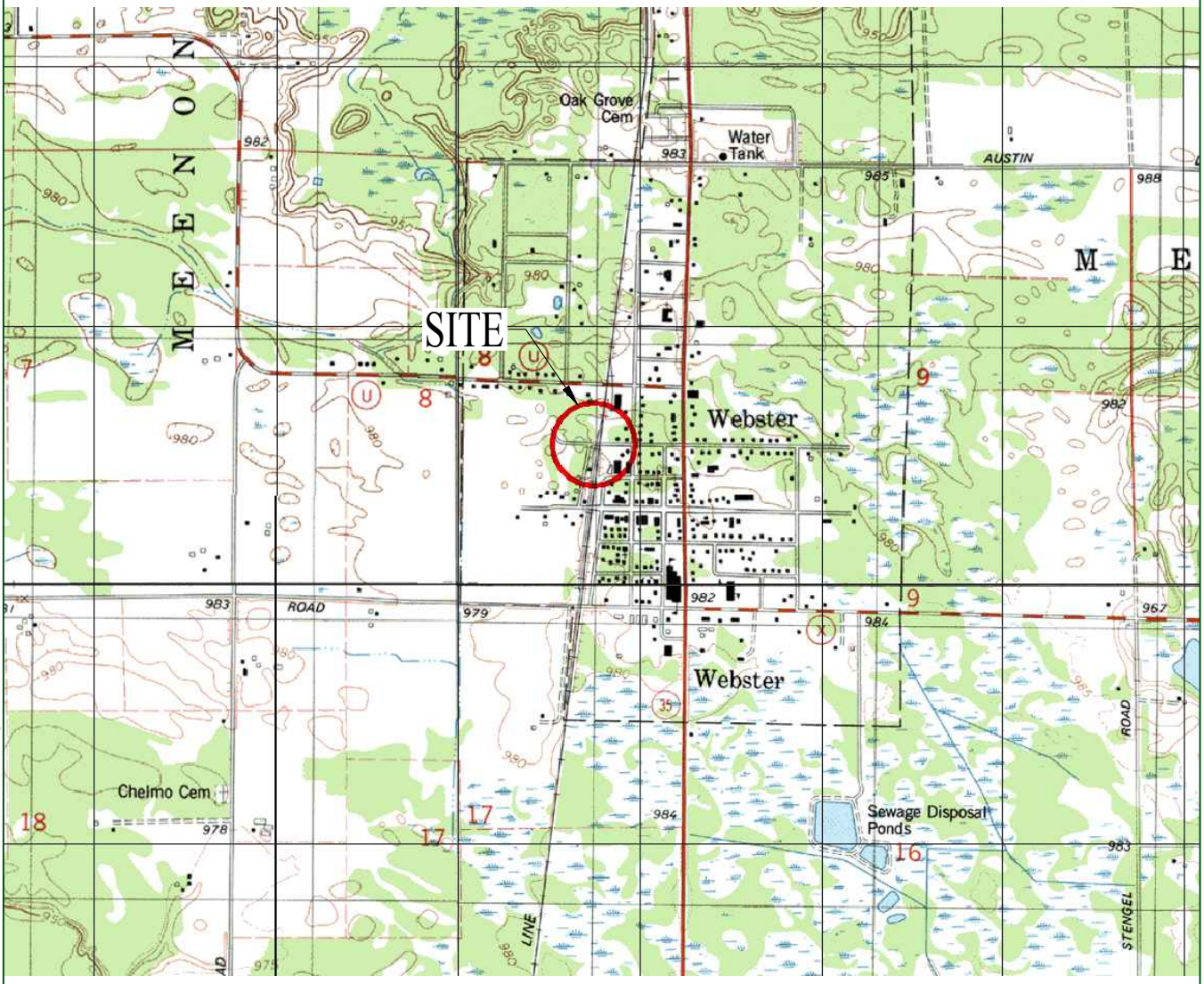
ENGINEERING, SURVEYING



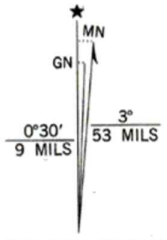
SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1982 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

WEBSTER, WIS.
NE/4 WEBSTER 15' QUADRANGLE
N4552.5–W9215/7.5

1982

DMA 2575 IV NE–SERIES V861

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	AJG	3/10/2017

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-VICN.DWG LAYOUT: 6962-VICN PLOTTED: MAR 10, 2017 - 9:24AM PLOTTED BY: ALANG

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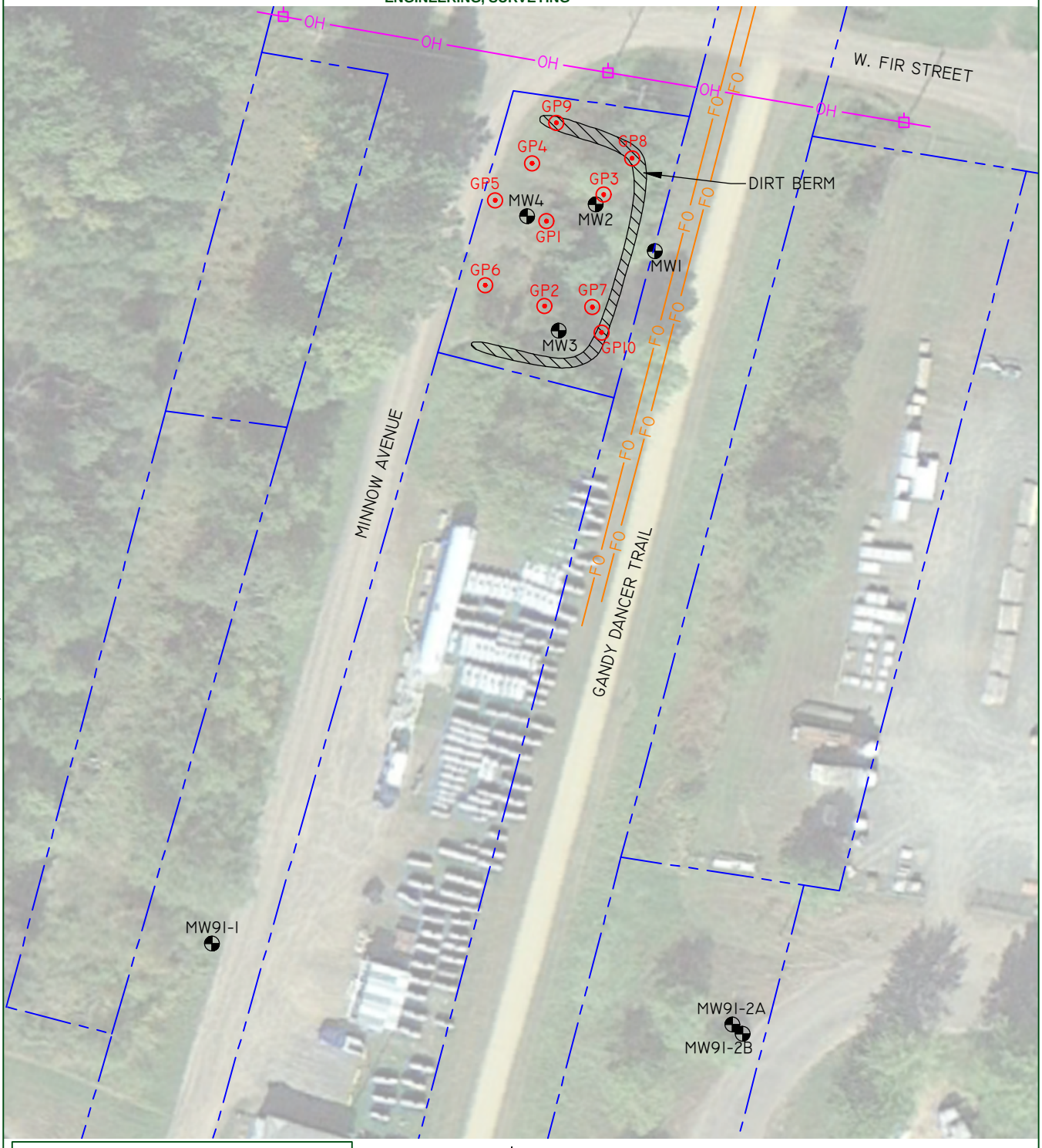

LEGEND

0 60

SCALE: 1" = 60'

- GEOPROBE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 2 : DETAILED SITE MAP

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	8/21/2017

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SITE.DWG LAYOUT: SITE PLOTTED: AUG 21, 2017 - 2:53PM PLOTTED BY: TODDW

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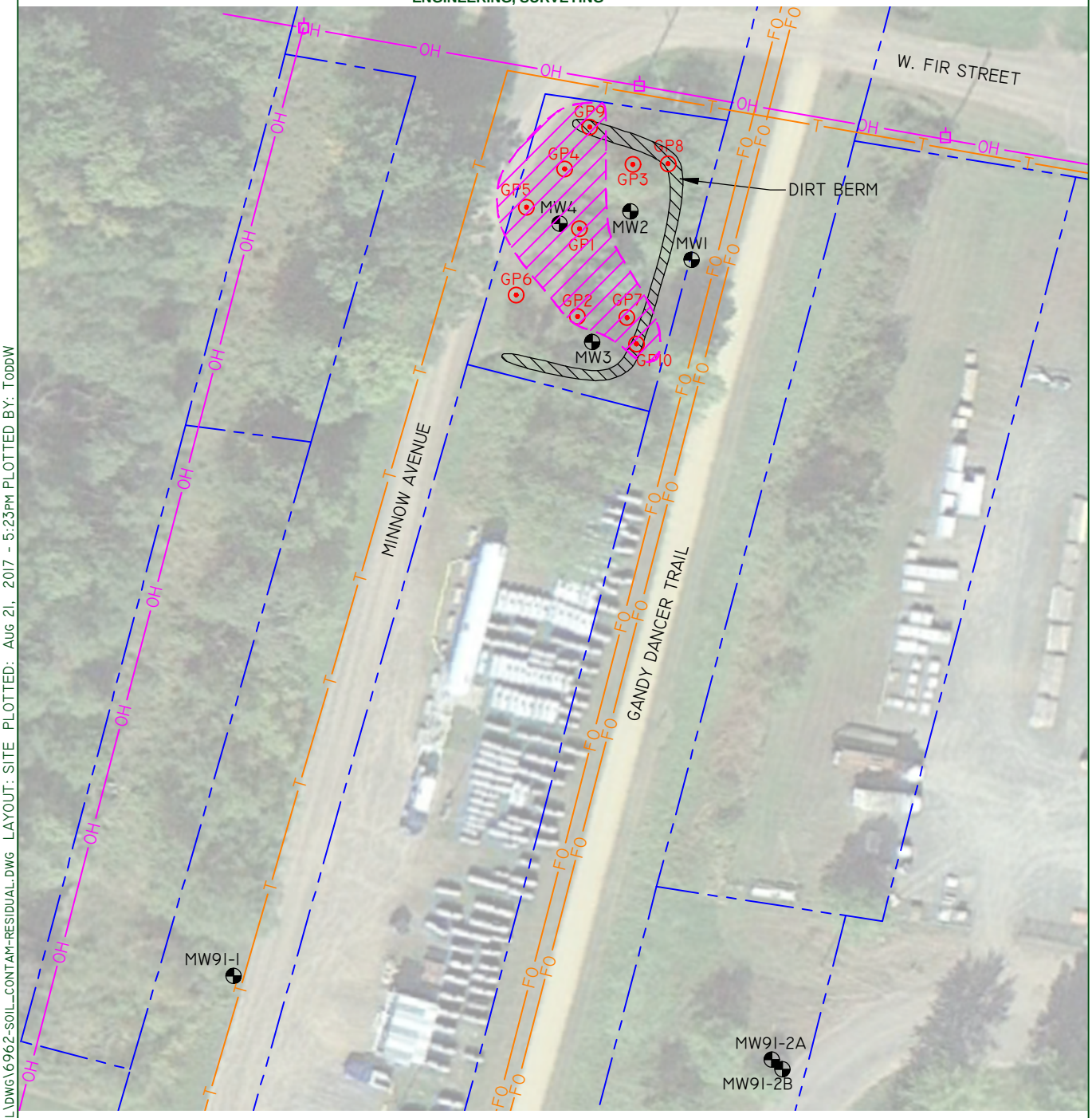

LEGEND

0 60

SCALE: 1" = 60'

- GEOPROBE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- T — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)
- AREA OF RESIDUAL PETROLEUM CONTAMINATED SOIL

N

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BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 3 : AREA OF RESIDUAL SOIL CONTAMINATION

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	8/21/2017

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SOIL_CONTAM-RESIDUAL.DWG LAYOUT: SITE PLOTTED: AUG 21, 2017 - 5:23PM PLOTTED BY: TODDW

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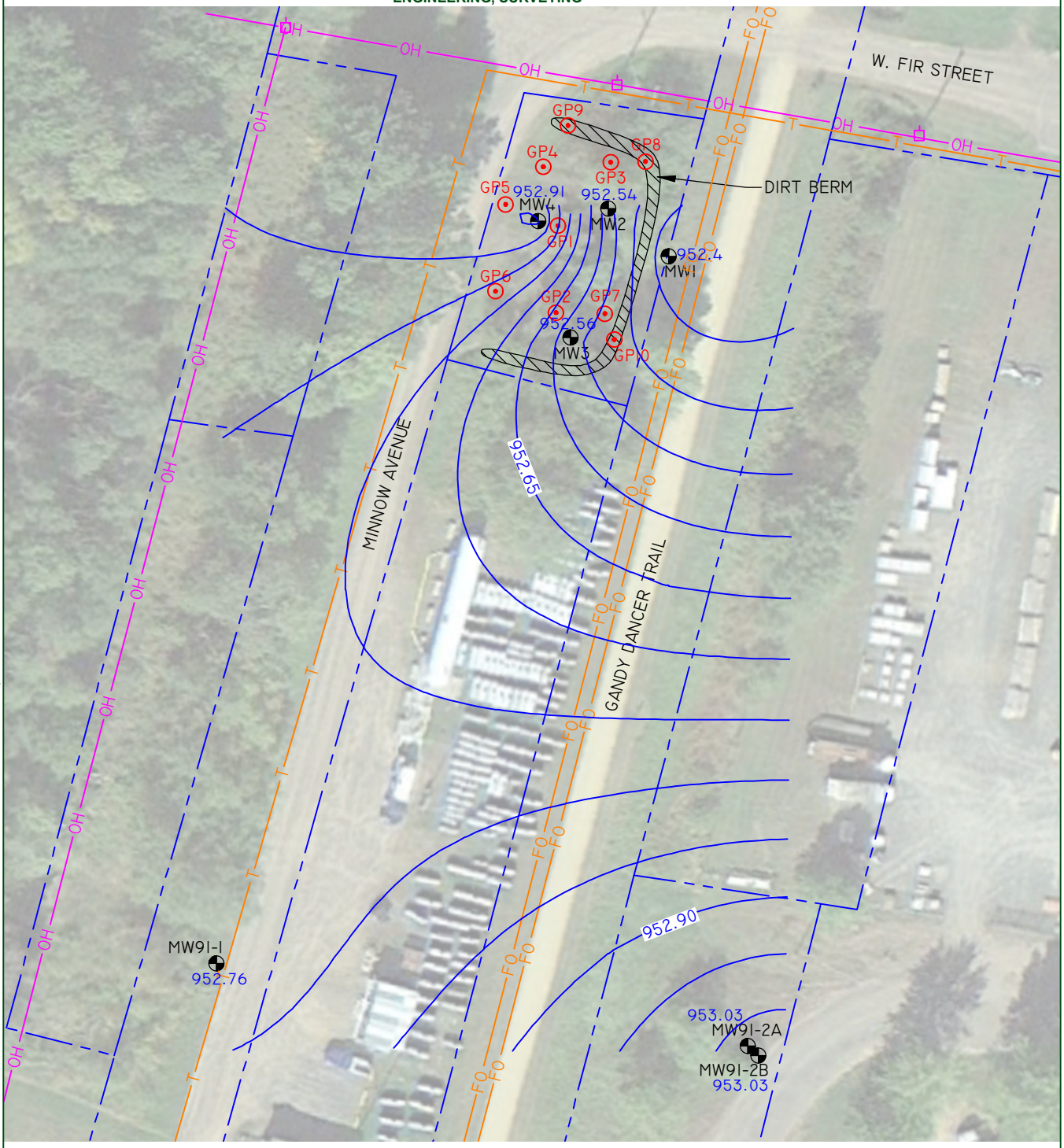

LEGEND

0 60

SCALE: 1" = 60'

- GROUNDWATER CONTOUR LINE
- GEOPROBE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- T — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 4 : GROUNDWATER CONTOUR MAP (7/7/2017)

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	8/21/2017

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-GW-070717.DWG LAYOUT: GW PLOTTED: AUG 21, 2017 - 5:06PM PLOTTED BY: TODDW

APPENDIX A

SOIL BORING LOGS AND ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	6/12/2017	6/12/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1		48		1–3	Topsoil Fine to medium sands odorous	SW			75.3		M				
				3–5	Gray clay	CL									
2		60		5–9	Fine gray sand odorous Fine brown/tan sand Fine gray/brown sand	SM			28.2 116.7						
				9–10	Gray clay Wet	CL									
3		60		10–13	Fine to medium brown sand Moist	SW			0.0						
				13–15	Saturated sand	SP									
4		42		15–20	Fine to medium brown sand Wet	SW									
				20	EOB @ 20'										

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

Signature	Firm	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes 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

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice. Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report 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 this form 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 this form is not intended to be used for any other purpose. NOTE: See the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: Burnett

Common Well Name: GP7 | Gov't Lot (If applicable): ☐ E ☐ W

Grid Location: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N; R. ____

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. ____ ° ____ ____ Long ____ ° ____ ____ or

St. Plane ____ ft. N. ____ ft. E. ☐☐☐ Zone (S C N)

Reason For Abandonment: Soil and groundwater sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Burnett County Oil

Facility ID | License/Permit/Monitoring No.: BRRTS #02-07-282564

Street Address of Well:

City, Village, or Town: Webster

Present Well Owner | Original Owner

Street Address or Route of Owner:

City, State, Zip Code:

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 6/12/2017

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify): Hydraulic push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.): 20 (From groundsurface)
Casing Diameter (in.): ____
Casing Depth (ft.): ____
Lower Drillhole Diameter (in.): 2.25

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown

If Yes, To What Depth? ____ Feet

Depth to Water (Feet): Not encountered

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☒ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ NO
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

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

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

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☒ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No Yards, Sacks Sealent or Volume (Circle One)	Mix Ratio or Mud Weight
Granular bentonite	Surface	20	0.64 bags	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work: Gestra Engineering/ REI - Dave Larsen

Date of Abandonment: 6/12/2017

Signature of Person Doing Work

Date Signed: 6/28/2017

Street or Route: 4080 N. 20th Avenue, Wausau, WI

Telephone Number: (715) 675-9784

City, State, Zip Code

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP8

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	6/12/2017	6/12/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat / Long	Local Grid Location
State Plane		N ☐ S ☐ E ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1		24		0–5	Topsoil; Sandy brown/gray clay	SC			0.0		M				
2		36		5–10	Fine grained brown sand	SM			0.0						
3		48		10–15											
4		48		15–20											
				20	EOB @ 20'										

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

Signature: [signature] Firm: REI Engineering, Inc.
4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes 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

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

Notice. Please complete Form 3300-5 and return it to the appropriate DNR office and bureau. Completion of this report 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 this form may result in a forteiture 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 the instructions for more information.

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: Burnett

Common Well Name: GP8 | Gov't Lot (If applicable)

Grid Location: ____ 1/4 of ____ 1/4 of Sec. ____ , T. ____ N; R. ____ ☐ E ☐ W

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. ° ____ ____ Long ° ____ ____ or

St. Plane ____ ft. N. ____ ft. E. S C N Zone ☐☐☐

Reason For Abandonment: Soil and groundwater sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Burnett County Oil

Facility ID | License/Permit/Monitoring No.: BRRTS #02-07-282564

Street Address of Well

City, Village, or Town: Webster

Present Well Owner | Original Owner

Street Address or Route of Owner

City, State, Zip Code

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 6/12/2017

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Hydraulic push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 20 (From groundsurface) | Casing Diameter (in.) | Casing Depth (ft.)

Lower Drillhole Diameter (in.) 2.25

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown

If Yes, To What Depth? ____ Feet

Depth to Water (Feet) Not encountered

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☒ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ NO
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

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

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

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☒ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealent or Volume (Circle One)	Mix Ratio or Mud Weight
Granular bentonite	Surface	20	0.64 bags	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work: Gestra Engineering/ REI - Dave Larsen | Date of Abandonment: 6/12/2017

Signature of Person Doing Work | Date Signed: 6/28/2017

Street or Route: 4080 N. 20th Avenue, Wausau, WI | Telephone Number: (715) 675-9784

City, State, Zip Code

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP9

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	6/12/2017	6/12/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
1		36		1–4	**Topsoil** Black organic matter **Fine grained brown sand** **Gray clay w/ orange mottling**	SM CL			67.2		M				
2		60		5–10	**Fine grained brown sand**	SM			0.0 0.0						
3		48		10–15					0.0 0.0						
4		60		15–20					0.0						
				20–35	**Blind drilled to 35' to collect water sample** EOB @ 35'						W				

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

Signature	Firm	
	REI Engineering, Inc.	4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: Burnett

Common Well Name: GP9 | Gov't Lot (If applicable) | ☐ E ☐ W

Grid Location: ____ 1/4 of ____ 1/4 of Sec. ____ , T. ____ N; R.

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. ____ ° ____ ' ____ " Long ____ ° ____ ' ____ " or

St. Plane ____ ft. N. ____ ft. E. S C N Zone ☐☐☐

Reason For Abandonment: Soil and groundwater sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Burnett County Oil

Facility ID | License/Permit/Monitoring No.: BRRTS #02-07-282564

Street Address of Well

City, Village, or Town: Webster

Present Well Owner | Original Owner

Street Address or Route of Owner

City, State, Zip Code

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 6/12/2017

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Hydraulic push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 35 (From groundsurface) | Casing Diameter (in.) | Casing Depth (ft.)

Lower Drillhole Diameter (in.) 2.25

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown

If Yes, To What Depth? _____ Feet

Depth to Water (Feet) 30

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☒ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	

Was Casing Cut Off Below Surface?	☐ Yes	☐ No
Did Sealing Material Rise to Surface?	☒ Yes	☐ NO
Did Material Settle After 24 Hours?	☐ Yes	☒ No
If Yes, Was Hole Retopped?	☐ Yes	☐ No

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

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

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☒ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No Yards, Sacks Sealent or Volume (Circle One)	Mix Ratio or Mud Weight
Granular bentonite	Surface	35	1.12 bags	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work: Gestra Engineering/ REI - Dave Larsen | Date of Abandonment: 6/12/2017

Signature of Person Doing Work | Date Signed: 6/28/2017

Street or Route: 4080 N. 20th Avenue, Wausau, WI | Telephone Number: (715) 675-9784

City, State, Zip Code

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	6/12/2017	6/12/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0	**Topsoil** Black organic matter						M				
				1	**Fine grained brown sand**	SM									
				2	**Gray clay**	CL									
1		36		2	**Fine grained brown sand**	SM									
				3	**Gray clay**	CL									
				4											
				5	**Fine grained brown sand**	SM									
				6	**Gray clay**	CL									
				7											
2		60		7					305						
				8	**Gray/brown fine grained sand** odorous	SM									
				9	**Fine grained brown sand**				1.6						
				10											
				11		SM			0.0						
				12											
3		48		13											
				14	**Mixed grained sands** w/ gravel at depth	SW									
				15	**EOB @ 15'**										
				16											
				17											

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

Signature	Firm	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5 2/2000

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

(1) GENERAL INFORMATION

WI Unique Well No. _ _ _ _ _ _ | DNR Well ID No. | County: Burnett

Common Well Name: GP10 | Gov't Lot (If applicable): ☐ E ☐ W

Grid Location: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N; R. ____

____ ft. ☐ N. ☐ S., ____ ft. ☐ E. ☐ W.

Local Grid Origin ☐ (estimated: ☐) or Well Location ☐

Lat. ____ ° ____ ____ Long ____ ° ____ ____ or

St. Plane ____ ft. N. ____ ft. E. ☐ S ☐ C ☐ N Zone

Reason For Abandonment: Soil and groundwater sampling complete

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

(2) FACILITY/ OWNER INFORMATION

Facility Name: Burnett County Oil

Facility ID | License/Permit/Monitoring No.: BRRTS #02-07-282564

Street Address of Well

City, Village, or Town: Webster

Present Well Owner | Original Owner

Street Address or Route of Owner

City, State, Zip Code

(3) WELL/DRILLHOLE/BOREHOLE INFORMATION

Original Construction Date: 6/12/2017

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Hydraulic push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth (ft.) 15 (From groundsurface)

Casing Diameter (in.) ____

Casing Depth (ft.) ____

Lower Drillhole Diameter (in.) 2.25

Was Well Annular Space Grouted? ☐ Yes ☒ No ☐ Unknown

If Yes, To What Depth? ____ Feet

Depth to Water (Feet) Not encountered

(4) PUMP, LINER, SCREEN, CASING, & SEALING MATERIAL

Pump & Piping Removed?	☐ Yes	☐ No	☒ Not Applicable
Liner(s) Removed?	☒ Yes	☐ No	☐ Not Applicable
Screen Removed?	☐ Yes	☐ No	☒ Not Applicable
Casing Left in Place?	☐ Yes	☒ No	
Was Casing Cut Off Below Surface?	☐ Yes	☐ No	
Did Sealing Material Rise to Surface?	☒ Yes	☐ NO	
Did Material Settle After 24 Hours?	☐ Yes	☒ No	
If Yes, Was Hole Retopped?	☐ Yes	☐ No	

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

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

For monitoring wells and monitoring well boreholes only
☐ Bentonite Chips
☒ Granular Bentonite
☐ Bentonite - Cement Grout
☐ Bentonite - Sand Slurry

(5) Material Used To Fill Well/Drillhole	From (Ft.)	To (Ft.)	No Yards, Sacks Sealent or Volume (Circle One)	Mix Ratio or Mud Weight
Granular bentonite	Surface	15	0.48 bags	

(6) Comments: _____

(7) Name of Person or Firm Doing Sealing Work: Gestra Engineering/ REI - Dave Larsen

Date of Abandonment: 6/12/2017

Signature of Person Doing Work

Date Signed: 6/28/2017

Street or Route: 4080 N. 20th Avenue, Wausau, WI

Telephone Number: (715) 675-9784

City, State, Zip Code

FOR DNR OR COUNTY USE ONLY

Date Received | Noted By

Comments

APPENDIX B

METHODS AND PROCEDURES

METHODS AND PROCEDURES

FOR

GEOPROBE SOIL SAMPLING

The Geoprobe unit hydraulically advances threaded, two-inch diameter, four-foot long, steel rod sections into the subsurface. A four-foot sampler, consisting of a drive shoe, a steel tube with a clean acetate liner, and a drive-head retractable piston, is attached to the leading Geoprobe rod. The sampler is driven down to the top of the interval to be sampled. The stop-pin is removed to release the drive head piston, which retracts as the sampler is advanced. When the sampler has been advanced four feet, the rods are retracted from the hole and the soil in the acetate liner is recovered. The acetate liner is split open and the soil is visually and manually classified by the field geologist/technician in accordance with **ASTM:D2488-84**. Logs of the borings are filled out indicating the depth and identification of the various strata, water level information, and pertinent information regarding the method of maintaining and advancing the borings.

Immediately after identification, the soil is quickly divided into two portions. One portion is prepared for potential laboratory analysis. The other portion is placed into a clean one-quart Ziploc bag for field screening. See the section "Soil Headspace Analysis" for field screening procedures.

HEADSPACE ANALYSIS

The soils were screened with a Mini-RAE photoionization detector (PID) equipped with an 10.6 eV lamp. The detector was calibrated in instrument units for Total Organic Vapors using an isobutylene standard. The soil sample, sealed in a Ziploc bag, was shaken vigorously to promote volatilization of the contaminant into the headspace of the bag. The sample was allowed to rest for at least ten minutes and then shaken again before screening. When ambient temperatures were below 60 degrees F, soil samples were allowed to warm for a minimum of 10 minutes in a heated environment prior to headspace development. The Ziploc bag was punctured with the PID probe and the resulting meter reading was recorded.

SAMPLING AND CHAIN OF CUSTODY

Soil samples for laboratory analysis were collected into laboratory prepared vials. Each vial was labeled and placed directly into a cooler pending delivery to the laboratory. Latex gloves were worn during all sample collection procedures.

An entry on a Chain of Custody log was completed as each sample was collected. The Chain of Custody included the following information: project name, work order number, shipped by, shipped to, sampling point, location, field ID number, date and time taken, sample type, number of containers, analysis required, sampler (s) signature (s), etc. As few people as possible handled the samples. The Chain of Custody log was sent to the laboratory with each cooler of samples.

DECONTAMINATION

Sampling equipment was decontaminated prior to sampling. Steel rod sections were washed after every sample collected.

APPENDIX C

LABORATORY ANALYTICAL RESULTS

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

June 28, 2017

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

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: 6962 BURNETT OIL
Pace Project No.: 40151983

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151983001	**GP7 @ 2.5-3.0**	Solid	06/12/17 13:00	06/20/17 09:00
40151983002	**GP7 @ 13-15**	Solid	06/12/17 13:15	06/20/17 09:00
40151983003	**GP7 @ 18-20**	Solid	06/12/17 13:30	06/20/17 09:00
40151983004	**GP8 @ 2-4**	Solid	06/12/17 13:35	06/20/17 09:00
40151983005	**GP8 @ 6-8**	Solid	06/12/17 13:40	06/20/17 09:00
40151983006	**GP8 @ 18-20**	Solid	06/12/17 14:00	06/20/17 09:00
40151983007	**GP9 @ 0.5-1.0**	Solid	06/12/17 14:10	06/20/17 09:00
40151983008	**GP9 @ 5-6**	Solid	06/12/17 14:15	06/20/17 09:00
40151983009	**GP9 @ 19-20**	Solid	06/12/17 14:30	06/20/17 09:00
40151983010	**GP10 @ 2-4**	Solid	06/12/17 15:25	06/20/17 09:00
40151983011	**GP10 @ 9-10**	Solid	06/12/17 15:25	06/20/17 09:00
40151983012	**GP10 @ 7.5**	Solid	06/12/17 15:20	06/20/17 09:00
40151983013	**GP9**	Water	06/12/17 15:15	06/20/17 09:00

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SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40151983001	**GP7 @ 2.5-3.0**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983002	**GP7 @ 13-15**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983003	**GP7 @ 18-20**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983004	**GP8 @ 2-4**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983005	**GP8 @ 6-8**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983006	**GP8 @ 18-20**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983007	**GP9 @ 0.5-1.0**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983008	**GP9 @ 5-6**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983009	**GP9 @ 19-20**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983010	**GP10 @ 2-4**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983011	**GP10 @ 9-10**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983012	**GP10 @ 7.5**	WI MOD GRO	ALD	10
		EPA 6010	AJT	1
		ASTM D2974-87	AH	1
40151983013	**GP9**	WI MOD GRO	ALD	10

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP7 @ 2.5-3.0 **Lab ID: 40151983001** Collected: 06/12/17 13:00 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	71-43-2	W
Ethylbenzene	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	100-41-4	W
Methyl-tert-butyl ether	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	1634-04-4	W
Naphthalene	**6870**	ug/kg	359	150	5	06/22/17 07:45	06/22/17 15:50	91-20-3	
Toluene	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	108-88-3	W
1,2,4-Trimethylbenzene	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	95-63-6	W
1,3,5-Trimethylbenzene	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	108-67-8	W
m&p-Xylene	**<250**	ug/kg	600	250	5	06/22/17 07:45	06/22/17 15:50	179601-23-1	W
o-Xylene	**<125**	ug/kg	300	125	5	06/22/17 07:45	06/22/17 15:50	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		5	06/22/17 07:45	06/22/17 15:50	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**4.3**	mg/kg	1.5	0.49	1	06/22/17 13:38	06/26/17 13:05	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.4**	%	0.10	0.10	1		06/27/17 15:14		

Sample: GP7 @ 13-15 **Lab ID: 40151983002** Collected: 06/12/17 13:15 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/22/17 07:45	06/22/17 14:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:08	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	06/22/17 07:45	06/22/17 14:08	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.88J**	mg/kg	1.2	0.41	1	06/22/17 13:38	06/26/17 13:07	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.9**	%	0.10	0.10	1		06/27/17 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP7 @ 18-20 **Lab ID: 40151983003** Collected: 06/12/17 13:30 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	1634-04-4	W
Naphthalene	**26.9J**	ug/kg	62.5	26.0	1	06/22/17 07:45	06/22/17 14:33	91-20-3	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/22/17 07:45	06/22/17 14:33	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 14:33	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	06/22/17 07:45	06/22/17 14:33	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.0J**	mg/kg	1.3	0.44	1	06/22/17 13:38	06/26/17 13:10	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.0**	%	0.10	0.10	1		06/27/17 15:14		

Sample: GP8 @ 2-4 **Lab ID: 40151983004** Collected: 06/12/17 13:35 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	71-43-2	W
Ethylbenzene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	100-41-4	W
Methyl-tert-butyl ether	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	1634-04-4	W
Naphthalene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	91-20-3	W
Toluene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	108-88-3	W
1,2,4-Trimethylbenzene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	95-63-6	W
1,3,5-Trimethylbenzene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	108-67-8	W
m&p-Xylene	**<58.1**	ug/kg	140	58.1	1	06/22/17 07:45	06/22/17 18:24	179601-23-1	W
o-Xylene	**<29.1**	ug/kg	69.8	29.1	1	06/22/17 07:45	06/22/17 18:24	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	06/22/17 07:45	06/22/17 18:24	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**3.2**	mg/kg	1.5	0.50	1	06/22/17 13:38	06/26/17 13:17	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		06/27/17 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP8 @ 6-8 **Lab ID: 40151983005** Collected: 06/12/17 13:40 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/22/17 07:45	06/22/17 18:49	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 18:49	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	06/22/17 07:45	06/22/17 18:49	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.9**	mg/kg	1.3	0.44	1	06/22/17 13:38	06/26/17 13:19	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.9**	%	0.10	0.10	1		06/27/17 15:14		

Sample: GP8 @ 18-20 **Lab ID: 40151983006** Collected: 06/12/17 14:00 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/22/17 07:45	06/22/17 19:15	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:15	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	06/22/17 07:45	06/22/17 19:15	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.73J**	mg/kg	1.7	0.55	1	06/22/17 13:38	06/26/17 13:21	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**23.3**	%	0.10	0.10	1		06/27/17 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP9 @ 0.5-1.0 **Lab ID: 40151983007** Collected: 06/12/17 14:10 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<290**	ug/kg	696	290	8	06/22/17 07:45	06/22/17 16:41	71-43-2	W
Ethylbenzene	**<290**	ug/kg	696	290	8	06/22/17 07:45	06/22/17 16:41	100-41-4	W
Methyl-tert-butyl ether	**<290**	ug/kg	696	290	8	06/22/17 07:45	06/22/17 16:41	1634-04-4	W
Naphthalene	**14800**	ug/kg	866	361	8	06/22/17 07:45	06/22/17 16:41	91-20-3	
Toluene	**<290**	ug/kg	696	290	8	06/22/17 07:45	06/22/17 16:41	108-88-3	W
1,2,4-Trimethylbenzene	**3440**	ug/kg	866	361	8	06/22/17 07:45	06/22/17 16:41	95-63-6	
1,3,5-Trimethylbenzene	**2210**	ug/kg	866	361	8	06/22/17 07:45	06/22/17 16:41	108-67-8	
m&p-Xylene	**1350J**	ug/kg	1730	721	8	06/22/17 07:45	06/22/17 16:41	179601-23-1	
o-Xylene	**547J**	ug/kg	866	361	8	06/22/17 07:45	06/22/17 16:41	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		8	06/22/17 07:45	06/22/17 16:41	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**66.7**	mg/kg	1.5	0.51	1	06/22/17 13:38	06/26/17 13:24	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.6**	%	0.10	0.10	1		06/27/17 15:14		

Sample: GP9 @ 5-6 **Lab ID: 40151983008** Collected: 06/12/17 14:15 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	06/22/17 07:45	06/22/17 19:40	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	06/22/17 07:45	06/22/17 19:40	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	06/22/17 07:45	06/22/17 19:40	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**4.8**	mg/kg	1.6	0.52	1	06/22/17 13:38	06/26/17 13:26	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.7**	%	0.10	0.10	1		06/27/17 15:14		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP9 @ 19-20 **Lab ID: 40151983009** Collected: 06/12/17 14:30 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	71-43-2	W
Ethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	100-41-4	W
Methyl-tert-butyl ether	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	1634-04-4	W
Naphthalene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	91-20-3	W
Toluene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	108-88-3	W
1,2,4-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	95-63-6	W
1,3,5-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	108-67-8	W
m&p-Xylene	**<53.2**	ug/kg	128	53.2	1	06/22/17 07:45	06/22/17 20:06	179601-23-1	W
o-Xylene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:06	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	06/22/17 07:45	06/22/17 20:06	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.75J**	mg/kg	1.3	0.43	1	06/22/17 13:38	06/26/17 13:28	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.6**	%	0.10	0.10	1		06/27/17 15:14		

Sample: GP10 @ 2-4 **Lab ID: 40151983010** Collected: 06/12/17 15:25 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	71-43-2	W
Ethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	100-41-4	W
Methyl-tert-butyl ether	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	1634-04-4	W
Naphthalene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	91-20-3	W
Toluene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	108-88-3	W
1,2,4-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	95-63-6	W
1,3,5-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	108-67-8	W
m&p-Xylene	**<53.2**	ug/kg	128	53.2	1	06/22/17 07:45	06/22/17 20:31	179601-23-1	W
o-Xylene	**<26.6**	ug/kg	63.8	26.6	1	06/22/17 07:45	06/22/17 20:31	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	06/22/17 07:45	06/22/17 20:31	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**2.7**	mg/kg	1.4	0.48	1	06/22/17 13:38	06/26/17 13:31	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10**	%	0.10	0.10	1		06/27/17 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP10 @ 9-10 **Lab ID: 40151983011** Collected: 06/12/17 15:25 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	71-43-2	W
Ethylbenzene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	100-41-4	W
Methyl-tert-butyl ether	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	1634-04-4	W
Naphthalene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	91-20-3	W
Toluene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	108-88-3	W
1,2,4-Trimethylbenzene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	95-63-6	W
1,3,5-Trimethylbenzene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	108-67-8	W
m&p-Xylene	**<75.8**	ug/kg	182	75.8	1	06/22/17 07:45	06/22/17 20:57	179601-23-1	W
o-Xylene	**<37.9**	ug/kg	90.9	37.9	1	06/22/17 07:45	06/22/17 20:57	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	06/22/17 07:45	06/22/17 20:57	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.84J**	mg/kg	1.4	0.48	1	06/22/17 13:38	06/26/17 13:33	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.8**	%	0.10	0.10	1		06/27/17 15:14		

Sample: GP10 @ 7.5 **Lab ID: 40151983012** Collected: 06/12/17 15:20 Received: 06/20/17 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<820**	ug/kg	1970	820	20	06/22/17 07:45	06/22/17 16:16	71-43-2	W
Ethylbenzene	**9550**	ug/kg	2200	918	20	06/22/17 07:45	06/22/17 16:16	100-41-4	
Methyl-tert-butyl ether	**<820**	ug/kg	1970	820	20	06/22/17 07:45	06/22/17 16:16	1634-04-4	W
Naphthalene	**41400**	ug/kg	2200	918	20	06/22/17 07:45	06/22/17 16:16	91-20-3	
Toluene	**<820**	ug/kg	1970	820	20	06/22/17 07:45	06/22/17 16:16	108-88-3	W
1,2,4-Trimethylbenzene	**24000**	ug/kg	2200	918	20	06/22/17 07:45	06/22/17 16:16	95-63-6	
1,3,5-Trimethylbenzene	**12200**	ug/kg	2200	918	20	06/22/17 07:45	06/22/17 16:16	108-67-8	
m&p-Xylene	**18600**	ug/kg	4410	1840	20	06/22/17 07:45	06/22/17 16:16	179601-23-1	
o-Xylene	**2200J**	ug/kg	2200	918	20	06/22/17 07:45	06/22/17 16:16	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		20	06/22/17 07:45	06/22/17 16:16	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**2.8**	mg/kg	1.5	0.48	1	06/22/17 13:38	06/26/17 13:35	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.7**	%	0.10	0.10	1		06/27/17 15:14		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Sample: GP9 **Lab ID: 40151983013** Collected: 06/12/17 15:15 Received: 06/20/17 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		06/22/17 12:29	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		06/22/17 12:29	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		06/22/17 12:29	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		06/22/17 12:29	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		06/22/17 12:29	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/22/17 12:29	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		06/22/17 12:29	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		06/22/17 12:29	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		06/22/17 12:29	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		06/22/17 12:29	98-08-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

QC Batch: 259412 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40151983001, 40151983002, 40151983003, 40151983004, 40151983005, 40151983006, 40151983007, 40151983008, 40151983009, 40151983010, 40151983011, 40151983012

METHOD BLANK: 1527963 Matrix: Solid
Associated Lab Samples: 40151983001, 40151983002, 40151983003, 40151983004, 40151983005, 40151983006, 40151983007, 40151983008, 40151983009, 40151983010, 40151983011, 40151983012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	06/22/17 09:01	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	06/22/17 09:01	
Benzene	ug/kg	<25.0	50.0	06/22/17 09:01	
Ethylbenzene	ug/kg	<25.0	50.0	06/22/17 09:01	
m&p-Xylene	ug/kg	<50.0	100	06/22/17 09:01	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	06/22/17 09:01	
Naphthalene	ug/kg	<25.0	50.0	06/22/17 09:01	
o-Xylene	ug/kg	<25.0	50.0	06/22/17 09:01	
Toluene	ug/kg	<25.0	50.0	06/22/17 09:01	
a,a,a-Trifluorotoluene (S)	%	105	80-120	06/22/17 09:01	

LABORATORY CONTROL SAMPLE & LCSD: 1527964 1527965

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1050	1080	105	108	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1020	1050	102	105	80-120	3	20	
Benzene	ug/kg	1000	1020	1050	102	105	80-120	3	20	
Ethylbenzene	ug/kg	1000	1030	1060	103	106	80-120	3	20	
m&p-Xylene	ug/kg	2000	2060	2100	103	105	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	991	1050	99	105	80-120	6	20	
Naphthalene	ug/kg	1000	1040	1150	104	115	80-120	9	20	
o-Xylene	ug/kg	1000	1030	1060	103	106	80-120	2	20	
Toluene	ug/kg	1000	1020	1050	102	105	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				107	107	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

QC Batch: 259410
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40151983013

METHOD BLANK: 1527957
Matrix: Water
Associated Lab Samples: 40151983013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	06/22/17 08:39	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	06/22/17 08:39	
Benzene	ug/L	<0.40	1.0	06/22/17 08:39	
Ethylbenzene	ug/L	<0.39	1.0	06/22/17 08:39	
m&p-Xylene	ug/L	<0.80	2.0	06/22/17 08:39	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	06/22/17 08:39	
Naphthalene	ug/L	<0.42	1.0	06/22/17 08:39	
o-Xylene	ug/L	<0.45	1.0	06/22/17 08:39	
Toluene	ug/L	<0.39	1.0	06/22/17 08:39	
a,a,a-Trifluorotoluene (S)	%	105	80-120	06/22/17 08:39	

LABORATORY CONTROL SAMPLE & LCSD: 1527958 1527959

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	21.1	21.6	106	108	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	20.5	20.8	102	104	80-120	2	20	
Benzene	ug/L	20	20.9	20.9	104	105	80-120	0	20	
Ethylbenzene	ug/L	20	20.8	21.0	104	105	80-120	1	20	
m&p-Xylene	ug/L	40	41.2	41.5	103	104	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.3	20.2	102	101	80-120	1	20	
Naphthalene	ug/L	20	19.7	20.0	99	100	80-120	2	20	
o-Xylene	ug/L	20	20.6	20.8	103	104	80-120	1	20	
Toluene	ug/L	20	20.7	20.8	103	104	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				105	105	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528255 1528256

Parameter	Units	40151907003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	20.6	21.0	103	105	11-200	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	20.3	20.6	102	103	54-142	1	20	
Benzene	ug/L	<0.40	20	20	21.3	21.1	106	105	66-140	1	20	
Ethylbenzene	ug/L	<0.39	20	20	21.7	21.9	108	109	66-143	1	20	
m&p-Xylene	ug/L	<0.80	40	40	42.1	42.5	105	106	60-141	1	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	20.2	20.0	101	100	70-129	1	20	
Naphthalene	ug/L	<0.42	20	20	20.4	20.7	102	104	64-129	1	20	
o-Xylene	ug/L	<0.45	20	20	21.0	21.2	105	106	68-132	1	20	
Toluene	ug/L	<0.39	20	20	21.4	21.5	107	108	76-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528255 1528256

Parameter	Units	40151907003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
a,a,a-Trifluorotoluene (S)	%						105	105	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

QC Batch: 259488 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40151983001, 40151983002, 40151983003, 40151983004, 40151983005, 40151983006, 40151983007, 40151983008, 40151983009, 40151983010, 40151983011, 40151983012

METHOD BLANK: 1528334 Matrix: Solid
Associated Lab Samples: 40151983001, 40151983002, 40151983003, 40151983004, 40151983005, 40151983006, 40151983007, 40151983008, 40151983009, 40151983010, 40151983011, 40151983012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.3	06/26/17 12:39	

LABORATORY CONTROL SAMPLE: 1528335

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1528336 1528337

Parameter	Units	40152001001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	2.2	51.6	51.6	52.8	52.6	98	98	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

QC Batch: 259922 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40151983001, 40151983002, 40151983003, 40151983004, 40151983005, 40151983006, 40151983007, 40151983008, 40151983009, 40151983010, 40151983011, 40151983012

SAMPLE DUPLICATE: 1530990

Parameter	Units	40152319001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.8	5.9	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

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.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962 BURNETT OIL
Pace Project No.: 40151983

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151983001	**GP7 @ 2.5-3.0**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983002	**GP7 @ 13-15**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983003	**GP7 @ 18-20**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983004	**GP8 @ 2-4**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983005	**GP8 @ 6-8**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983006	**GP8 @ 18-20**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983007	**GP9 @ 0.5-1.0**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983008	**GP9 @ 5-6**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983009	**GP9 @ 19-20**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983010	**GP10 @ 2-4**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983011	**GP10 @ 9-10**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983012	**GP10 @ 7.5**	TPH GRO/PVOC WI ext.	259412	WI MOD GRO	259450
40151983013	**GP9**	WI MOD GRO	259410		
40151983001	**GP7 @ 2.5-3.0**	EPA 3050	259488	EPA 6010	259604
40151983002	**GP7 @ 13-15**	EPA 3050	259488	EPA 6010	259604
40151983003	**GP7 @ 18-20**	EPA 3050	259488	EPA 6010	259604
40151983004	**GP8 @ 2-4**	EPA 3050	259488	EPA 6010	259604
40151983005	**GP8 @ 6-8**	EPA 3050	259488	EPA 6010	259604
40151983006	**GP8 @ 18-20**	EPA 3050	259488	EPA 6010	259604
40151983007	**GP9 @ 0.5-1.0**	EPA 3050	259488	EPA 6010	259604
40151983008	**GP9 @ 5-6**	EPA 3050	259488	EPA 6010	259604
40151983009	**GP9 @ 19-20**	EPA 3050	259488	EPA 6010	259604
40151983010	**GP10 @ 2-4**	EPA 3050	259488	EPA 6010	259604
40151983011	**GP10 @ 9-10**	EPA 3050	259488	EPA 6010	259604
40151983012	**GP10 @ 7.5**	EPA 3050	259488	EPA 6010	259604
40151983001	**GP7 @ 2.5-3.0**	ASTM D2974-87	259922		
40151983002	**GP7 @ 13-15**	ASTM D2974-87	259922		
40151983003	**GP7 @ 18-20**	ASTM D2974-87	259922		
40151983004	**GP8 @ 2-4**	ASTM D2974-87	259922		
40151983005	**GP8 @ 6-8**	ASTM D2974-87	259922		
40151983006	**GP8 @ 18-20**	ASTM D2974-87	259922		
40151983007	**GP9 @ 0.5-1.0**	ASTM D2974-87	259922		
40151983008	**GP9 @ 5-6**	ASTM D2974-87	259922		
40151983009	**GP9 @ 19-20**	ASTM D2974-87	259922		
40151983010	**GP10 @ 2-4**	ASTM D2974-87	259922		
40151983011	**GP10 @ 9-10**	ASTM D2974-87	259922		
40151983012	**GP10 @ 7.5**	ASTM D2974-87	259922		

(Please Print Clearly)

Company Name:	PET
Branch/Location:	
Project Contact:	DARELL LARSON
Phone:	715 675-9781
Project Number:	C0962
Project Name:	Barnett Oil
Project State:	WI
Sampled By (Print):	DARELL LARSON
Sampled By (Sign):	
PO #:	
Regulatory Program:	PECFA

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

SSM

Page 1 of

40151983

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:	
Mail To Company:	
Mail To Address:	
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/N	Dry Weight	Lead	PVOC/N				CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	F	N	A	N	A		B				
001	GP7 @ 2.5-3.0	6-12-17	1:00	SO:1		X	X	X							1-40mlV F, 1-4ozp A	
002	GP7 @ 13-15		1:15			X	X	X								
003	GP7 @ 16-20		1:30			X	X	X								
004	GP8 @ 2-4		1:35			X	X	X								
005	GP8 @ 6-8		1:40			X	X	X								
006	GP8 @ 18-20		2:00			X	X	X								
007	GP9 @ 0.5-1.0		2:10			X	X	X								
008	GP9 @ 5-6		2:15			X	X	X								
009	GP9 @ 19-20		2:30			X	X	X								
010	GP10 @ 2-4		3:25			X	X	X							1-40ozag A	
011	GP10 @ 9-10		3:25			X	X	X								
012	GP10 @ 7.5		3:20			X	X	X								
013	GP9		3:15	GW					X					3-40mlJB		

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

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

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	6-19-17 @ 1:00pm		
Waltco	6/20/17 0900	Kimberly Rathke Pace	6/20/17 0900

PACE Project No.
40151983

Receipt Temp = R01 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Project # WO#: 40151983

40151983

Client Name: REI

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

Tracking #: 1400840-1

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

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

Person examining contents:
Date: 6-20-17
Initials: KR

		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.
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. 009 4ozagA time 12:10. 6-20-17 KR
-Includes date/time/ID/Analysis Matrix: W S		
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):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 6-21-17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

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

July 14, 2017

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 6962 BURNETT OIL
Pace Project No.: 40152988

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on July 11, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 6962 BURNETT OIL
Pace Project No.: 40152988

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: 6962 BURNETT OIL
Pace Project No.: 40152988

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40152988001	**MW1**	Water	07/07/17 12:10	07/11/17 08:40
40152988002	**MW2**	Water	07/07/17 12:20	07/11/17 08:40
40152988003	**MW3**	Water	07/07/17 12:25	07/11/17 08:40
40152988004	**MW4**	Water	07/07/17 12:30	07/11/17 08:40
40152988005	**MW91-1**	Water	07/07/17 12:40	07/11/17 08:40
40152988006	**MW92-A**	Water	07/07/17 12:50	07/11/17 08:40
40152988007	**MW92-B**	Water	07/07/17 13:00	07/11/17 08:40

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SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40152988

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40152988001	**MW1**	WI MOD GRO	PMS	10
40152988002	**MW2**	WI MOD GRO	PMS	10
40152988003	**MW3**	WI MOD GRO	PMS	10
40152988004	**MW4**	WI MOD GRO	PMS	10
40152988005	**MW91-1**	WI MOD GRO	PMS	10
40152988006	**MW92-A**	WI MOD GRO	PMS	10
40152988007	**MW92-B**	WI MOD GRO	PMS	10

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40152988

Sample: MW1 **Lab ID: 40152988001** Collected: 07/07/17 12:10 Received: 07/11/17 08:40 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		07/12/17 14:33	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 14:33	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 14:33	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 14:33	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 14:33	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 14:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 14:33	108-67-8	M1,R1
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 14:33	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 14:33	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		07/12/17 14:33	98-08-8	

Sample: MW2 **Lab ID: 40152988002** Collected: 07/07/17 12:20 Received: 07/11/17 08:40 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		07/12/17 14:59	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 14:59	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 14:59	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 14:59	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 14:59	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 14:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 14:59	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 14:59	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 14:59	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		07/12/17 14:59	98-08-8	

Sample: MW3 **Lab ID: 40152988003** Collected: 07/07/17 12:25 Received: 07/11/17 08:40 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		07/12/17 15:25	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 15:25	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 15:25	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 15:25	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 15:25	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 15:25	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 15:25	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 15:25	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 15:25	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: 6962 BURNETT OIL
Pace Project No.: 40152988

Sample: MW3 **Lab ID: 40152988003** Collected: 07/07/17 12:25 Received: 07/11/17 08:40 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)	104	%	80-120		1		07/12/17 15:25	98-08-8	

Sample: MW4 **Lab ID: 40152988004** Collected: 07/07/17 12:30 Received: 07/11/17 08:40 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		07/12/17 15:51	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 15:51	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 15:51	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 15:51	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 15:51	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 15:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 15:51	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 15:51	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 15:51	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		07/12/17 15:51	98-08-8	

Sample: MW91-1 **Lab ID: 40152988005** Collected: 07/07/17 12:40 Received: 07/11/17 08:40 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		07/12/17 16:16	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 16:16	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 16:16	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 16:16	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 16:16	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 16:16	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 16:16	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 16:16	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 16:16	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		07/12/17 16:16	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: 6962 BURNETT OIL
Pace Project No.: 40152988

Sample: MW92-A **Lab ID: 40152988006** Collected: 07/07/17 12:50 Received: 07/11/17 08:40 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		07/12/17 16:42	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 16:42	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 16:42	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 16:42	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 16:42	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 16:42	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 16:42	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 16:42	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 16:42	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		07/12/17 16:42	98-08-8	

Sample: MW92-B **Lab ID: 40152988007** Collected: 07/07/17 13:00 Received: 07/11/17 08:40 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		07/12/17 17:08	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 17:08	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		07/12/17 17:08	1634-04-4	
Naphthalene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 17:08	91-20-3	
Toluene	**<0.39**	ug/L	1.0	0.39	1		07/12/17 17:08	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 17:08	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		07/12/17 17:08	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		07/12/17 17:08	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		07/12/17 17:08	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		07/12/17 17:08	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: 6962 BURNETT OIL
Pace Project No.: 40152988

QC Batch: 261242 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40152988001, 40152988002, 40152988003, 40152988004, 40152988005, 40152988006, 40152988007

METHOD BLANK: 1538225 Matrix: Water
Associated Lab Samples: 40152988001, 40152988002, 40152988003, 40152988004, 40152988005, 40152988006, 40152988007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	07/12/17 09:51	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	07/12/17 09:51	
Benzene	ug/L	<0.40	1.0	07/12/17 09:51	
Ethylbenzene	ug/L	<0.39	1.0	07/12/17 09:51	
m&p-Xylene	ug/L	<0.80	2.0	07/12/17 09:51	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	07/12/17 09:51	
Naphthalene	ug/L	<0.42	1.0	07/12/17 09:51	
o-Xylene	ug/L	<0.45	1.0	07/12/17 09:51	
Toluene	ug/L	<0.39	1.0	07/12/17 09:51	
a,a,a-Trifluorotoluene (S)	%	105	80-120	07/12/17 09:51	

LABORATORY CONTROL SAMPLE & LCSD: 1538226 1538227

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	19.4	19.0	97	95	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	18.6	18.4	93	92	80-120	1	20	
Benzene	ug/L	20	22.4	21.8	112	109	80-120	2	20	
Ethylbenzene	ug/L	20	21.7	21.2	109	106	80-120	3	20	
m&p-Xylene	ug/L	40	42.0	40.8	105	102	80-120	3	20	
Methyl-tert-butyl ether	ug/L	20	19.8	19.9	99	99	80-120	0	20	
Naphthalene	ug/L	20	19.9	20.6	100	103	80-120	3	20	
o-Xylene	ug/L	20	20.9	20.4	105	102	80-120	2	20	
Toluene	ug/L	20	21.7	21.1	108	106	80-120	3	20	
a,a,a-Trifluorotoluene (S)	%				105	104	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1539048 1539049

Parameter	Units	40152988001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	13.6	11.5	68	58	11-200	16	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	10.2	8.0	51	40	54-142	25	20	M1,R1
Benzene	ug/L	<0.40	20	20	23.3	22.9	117	115	66-140	2	20	
Ethylbenzene	ug/L	<0.39	20	20	21.3	20.2	106	101	66-143	5	20	
m&p-Xylene	ug/L	<0.80	40	40	35.1	31.3	88	78	60-141	11	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	20.4	20.0	102	100	70-129	2	20	
Naphthalene	ug/L	<0.42	20	20	19.2	18.3	96	91	64-129	5	20	
o-Xylene	ug/L	<0.45	20	20	18.0	16.5	90	82	68-132	9	20	
Toluene	ug/L	<0.39	20	20	21.3	20.5	107	103	76-130	4	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: 6962 BURNETT OIL
Pace Project No.: 40152988

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1539048 1539049

Parameter	Units	40152988001 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			

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: 6962 BURNETT OIL
Pace Project No.: 40152988

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.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962 BURNETT OIL
Pace Project No.: 40152988

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40152988001	**MW1**	WI MOD GRO	261242		
40152988002	**MW2**	WI MOD GRO	261242		
40152988003	**MW3**	WI MOD GRO	261242		
40152988004	**MW4**	WI MOD GRO	261242		
40152988005	**MW91-1**	WI MOD GRO	261242		
40152988006	**MW92-A**	WI MOD GRO	261242		
40152988007	**MW92-B**	WI MOD GRO	261242		

40152988

Pace Analytical®
www.pacelabs.com

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

RMW

CHAIN OF CUSTODY

(Please Print Clearly)

Company Name:	RET
Branch/Location:	
Project Contact:	David Carzel
Phone:	715-675-9784
Project Number:	6962
Project Name:	Burnett Oil
Project State:	WI
Sampled By (Print):	David Carzel
Sampled By (Sign):	David Carzel
PO #:	
Regulatory Program:	PECFA

*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:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

FILTERED? (YES/NO): N
PRESERVATION (CODE)*: B
Analyses Requested: RVOC/N

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	RVOC/N	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1	7/7/17	12:10	GW	X	3-40mLvB		
002	MW2	↓	12:20	↓	X	↓		
003	MW3	↓	12:25	↓	X	↓		
004	MW4	↓	12:30	↓	X	↓		
005	MW91-1	↓	12:40	↓	X	↓		
006	MW92-A	↓	12:50	↓	X	↓		
007	MW92-B	↓	1:00	↓	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:
[signature] Larson	7/10/17 @ 2:00pm		
Waltco	7/11/17 0840	Katie Schramm Pace	7/11/17 0840

PACE Project No. 40152988

Receipt Temp = RO1 °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: WO#: 40152988

40152988

Client Name: REI

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

Tracking #: 1421059-1

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

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

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

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

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

Temp Blank Present: ☐ yes ☑ no

Person examining contents: KS
Date: 7/11/17
Initials: KS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 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.
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. 006 ID MW-91-2a, 007 ID MW-91-2b KS 7/11/17
-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):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:** 7-11-17