REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

March 15, 2017

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

Subject:

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

Dear Mr. Smith:

Enclosed is the Environmental Site Investigation Report for the above-mentioned site. REI identified significant petroleum related soil contamination and minimal groundwater impact. REI is recommending the completion of a soil excavation to address the residual soil contamination followed by quarterly groundwater sampling through case closure consideration.

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

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Environmental Site Investigation Report

Burnett Oil Company
Webster, Wisconsin

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

COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

ENVIRONMENTAL SITE INVESTIGATION 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

MARCH 2017

ENVIRONMENTAL SITE INVESTIGATION REPORT

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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 — 3/15/17

Environmental Scientist — Date

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ENVIRONMENTAL SITE INVESTIGATION REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

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

REI #6962

1.0 INTRODUCTION

1.1 Purpose of Report

The Burnett Oil Company had operated a bulk fueling facility on the property (leased from the railroad) for many years. This report presents the results of an Environmental Site Investigation performed at the Burnett County Oil site in Webster, Wisconsin. The purpose of the investigation was to determine the source, as well as the degree and extent of petroleum related contamination in soil, groundwater and evaluate soil gases. The Wisconsin Department of Natural Resources (WDNR) was notified of a petroleum release at the Burnett County Oil facility on July 26, 2001. A Site Investigation Workplan was submitted to the WDNR on July 15, 2016.

1.2 Site Background

1.2.1 Site Description

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 1). The site address is 26504 Minnow Avenue, Webster, Wisconsin, 54893. Wisconsin Transverse Mercator (WTM) coordinates are 336177, 603362.

Based on DATCP registration records, six (6) above ground storage tanks (ASTs) were located on the site. All the tanks were reported to have been

removed as of June 20, 2001. AST registration numbers, tank identification numbers, tank size, contents are listed below:

Registration No.	Size (Gallons)	Contents
761191	10,000	Unleaded Gasoline
761205	15,000	Unleaded Gasoline
761206	10,000	Fuel Oil
761207	10,000	Fuel Oil
761208	17,000	Diesel Fuel
813857	15,000	Diesel Fuel

The property lies adjacent to the former railroad grade, which has since been acquired under the "Rails for Trails" program and is part of the Gandy Dancer Trail.

The neighboring properties are as follows:

North:	Fir Street and residential beyond
East:	Gandy Dancer Trail (former railroad grade)
South:	Propane dealer and propane tank storage
West:	Burnett County Forest Land

1.2.2 Current Site Operation

The property is currently vacant, unimproved and gravel covered. Following the removal of the former bulk plant operations in 2001, the rail line was abandoned and eventually converted in to the Gandy Dancer Trail. The Gandy Dancer Trail group did not acquire the former Burnett Oil Company property due to the petroleum contamination. The property was eventually acquired by Burnett County.

1.2.3 Previous Investigations

Other than the release from the PECFA eligible petroleum system no other releases have been reported at this location.

The Village of Webster was the focus of a Webster VOC Contamination investigation for the Webster VOC Contamination (BRRTS 02-07-000337) due to VOC (chlorinated compounds from a dry cleaner release) impact to the

municipal water supply well. This investigation was initiated in 1984 and eventually nineteen (19) environmental monitoring wells were advanced to identify the degree and extent of the release. A figure depicting the locations of the Webster VOC Contamination installed wells and soil borings is in included in Appendix A. Monitoring wells MW92-1, MW92-2A and MW92-2B were transferred from the Webster VOC Contamination project to the Burnett County Oil PECFA investigation.

1.3 Potable Water Survey

The Village of Webster is serviced by municipal sewer and water. Potable water supply wells are located near the subject property. Copies of local potable well construction logs are included in Appendix B.

1.4 Other Sources of Contamination

A review of the Wisconsin Department of Natural Resources (WDNR) Spills and Leaking Underground Storage Tank (LUST) list was performed for the surrounding area. According to the Bureau of Remediation and Redevelopment Tracking System (BRRTS) database this is the only release notification for this property.

2.0 Method of Investigation

2.1 Soil

The borings were placed to aid in the determination of the lateral and vertical extents of the petroleum contamination. A total of ten (10) soil borings were advanced during the site investigation.

The soil boring locations and estimated extent of soil contamination are shown on Figure 2. Additional information regarding site specific soil characteristics and contaminant concentrations will be detailed in later sections of this report.

Soil Boring Logs (WDNR Form 4400-122) are included in Appendix C. Monitoring Well Construction Forms (WDNR Form 4400-133A) are included in Appendix D. Monitoring Well Development Forms (WDNR Form 4400-133B) are included in Appendix E. Borehole Abandonment Forms (WDNR Form 3300-5) are included in

Appendix F. Historical information specific to wells MW91-1, MW91-2A and MW91-2B are included in Appendix G. Investigative waste disposal is included in Appendix H.

2.2 Groundwater

A total of seven (7) groundwater monitoring wells have been advanced to determine if the observed petroleum related soil contamination had impacted the groundwater at the Burnett County Oil site. Four (4) monitoring wells, MW1 to MW4 were installed under the direction of REI. Three (3) additional monitoring wells MW91-1, MW91-2A and MW91-2B were installed as part of the Webster VOC Contamination project and were transferred to the Burnett Oil Company investigation. All three (3) of the transferred wells were redeveloped prior to incorporation into the Burnett Oil project. Well development forms are included in Appendix E. Depths to groundwater and groundwater elevation measurements were collected during each well sampling event. The samples were placed in laboratory provided containers and submitted to a State Certified Laboratory for analysis. Additional information regarding site specific groundwater characteristics are presented in later sections of this report.

3.0 Summary of Field Investigation Results

3.1 Regional Geology and Hydrogeology

Site specific topography is relatively flat with a slight grade to the south. The area is situated within the St. Croix River Basin of Wisconsin, with the Yellow River as the primary drainage feature for the area (Young and Hindall, 1973).

The geology and water resources of the basin were described by Young and Hindall (1973). Briefly, the surficial geology consists of glacially derived sediments ranging from outwash plains to end moraines. The glacial deposits are underlain by Precambrian basaltic lava flows classified by Young and Hindall (1973). The depth to bedrock typically is greater than 100 feet (Trotta and Cotter, 1973).

The geology and water resources of the basin as described by Young and Hindall (1973) indicate that almost the entire St. Croix River basin is covered with

unconsolidated deposits consisting of unpitted outwash, pitted outwash, lake deposits, end moraines and ground moraines. The outwash deposits are typically less than 50 feet in thickness but may be thicker over channels in bedrock. Soil permeability for the soils as described on the site are 0.8 to 2.5 inches per hour. The average annual precipitation in the area is about 29.3 inches. The typical evapotranspiration rate is about 20.3 inches per year, leaving about 9.0 inches per year for both groundwater recharge and surface runoff (Devaul and Green, 1971). The regional groundwater recharge rate will be assumed to be the NR 720.09(3) default rate of 10.0 inches per year. Site specific topography is relatively flat but slopes to the northwest. Land surface elevations in the area are about 980 +/- 5 feet above Mean Sea Level (U.S.G.S. Webster 7 1/2-minute quadrangle map).

3.2 Site Specific Geology and Hydrogeology

The soil borings performed during the Burnett Oil Company investigation indicate the site geology consists mainly of fill material overlying layers of sands and clays, which overly a fine to medium grained sand. The Burnett County Oil soil description is consistent with the soil description from the Webster VOC Contamination project. Much of the site specific hydrologic data was obtained from the previously submitted data for the Webster VOC Contamination Project (02-07-000337). Figure 3 presents the geologic cross section of the soils identified at the site.

The average depth to groundwater is approximately thirty (30) feet bls. Therefore, the physical and hydraulic properties of the red brown silty sand probably are most representative of the material below the water table through which most groundwater contaminant travel occurs.

3.2.1 Site Hydrogeology

Depths to groundwater were measured in the monitoring wells as part of each sampling event. The direction of groundwater flow identified during the Webster VOC Contamination investigation was westerly. REI groundwater flow contour map for September 2016 is presented in Figure 4.

As part of the Webster VOC Contamination project soil samples were collected and submitted for mechanical grain size analysis. Particle size analysis and soil classification using the Unified Soil Classification System (USCS) was performed. The results are presented in Appendix I. The samples collected from OW5 at a depth of 45-46.5 feet and from OW9, 35-36.5 feet, were the only samples collected below the average depth to groundwater. Both were classified as SP soils (poorly sorted sands) using the Unified Soil Classification System (USCS).

Published estimates of typical values for the soils classified as SP in the USCS system indicates the hydraulic conductivity are approximately 1.5 ft./day to 28 ft./day (Schroeder and others, 1994).

Hydraulic conductivities were calculated during the Webster VOC Contamination investigation for wells MW91-1 and MW91-2A. Additionally, hydraulic conductivity values were calculated for many of the other wells associated with the Webster VOC Contamination investigation. Copies of the calculated hydraulic conductivity output is included in Appendix J. Calculated hydraulic conductivity results at MW91-1 and MW91-2A ranged from a low of 38.27 feet/day at MW91-1 to a high of 48.19 feet/day at MW91-2A. The calculated average value was 43.23 feet/day and will be used for estimating clean up time estimates under natural conditions. Contaminant velocities will be less than groundwater velocities, and will depend on the retardation factors for each contaminant.

The natural rate of lateral groundwater movement is estimated to be approximately 717 feet per year, which is based on the estimated horizontal hydraulic conductivity, the horizontal gradients (between MW91-1 and MW91-2) and the assumed porosity observed at the site. Vertical gradients were also calculated across each well nest. Groundwater contaminant concentrations in the piezometer documents a shallow downward vertical component across the MW91-2A and MW91-2B well nest. The calculated gradient was -0.0006 ft./ft. for the September 14, 2016 sample event.

Contaminant velocities are less than groundwater velocities, and depend on the retardation factor of each contaminant.

3.3 Nature and Extent of Soil Contamination

Figure 2 documents the locations of the nine (9) soil borings advanced during the site investigation. Soil samples were obtained to determine the lateral and vertical extent of the petroleum contamination in the subsurface. 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).

A total of twenty (20) soil samples were collected and submitted for laboratory analysis during the investigation. Tables 1a-b present the results from the nine (9) soil borings advanced during the investigation. Copies of the soil laboratory analytical reports are included in Appendix K.

Based on field screening and analytical results, the estimated extent of pre-remedial soil contamination associated with the petroleum release at the Burnett County Oil site encompasses an area of approximately 3,600 square feet. Using this area and an assumed depth of soil contamination of fourteen (14) feet, the estimated in-place volume of petroleum impacted soil in concentrations above the WDNR-RCL is approximately 1,867 cubic yards. The anticipated volume of petroleum impacted soil to be removed for disposal is estimated at approximately 180 cubic yards. Figure 5 presents the estimated extent of petroleum impacted soil contamination at the Burnett County Oil site associated with the petroleum release.

3.4 Nature and Extent of Groundwater Contamination

A single groundwater-sampling event has been conducted during the site investigation. Depth to water and water level elevations for the investigation are presented in Table 2. Analysis of the groundwater samples from the single sampling event indicated no detectable petroleum compounds above NR 140.10 Groundwater Quality Enforcement Standards (ES) and laboratory qualified Preventive Action

Limits (PAL) exceedances in monitoring well MW2 only. A summary of groundwater analytical results is presented in Tables 3a-h. All development and purge water was transported to the Village of Luck for disposal in their waste water treatment system.

3.5 Vapor Intrusion Screening Analysis

Vapor intrusion screening is used to determine the potential for vapor migration from a contaminated property. Vapor intrusion of petroleum compounds most often occurs when free phase petroleum compounds are located near building foundations, where petroleum impacted groundwater has entered a building, or when petroleum contaminated groundwater is in contact with a building foundation.

Vapor intrusion from petroleum releases tend to occur near the source of the petroleum release and are often detected by smelling petroleum odors in the building. When petroleum odors are not detected, vapor intrusion concerns can be dismissed if there is more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building.

An investigation into the potential for vapor migration should be completed in situations when there is not more than five (5) feet of clean unsaturated and aerated (greater than 5% oxygen content) soil separating the residual contamination from the building or any of the following conditions:

- Free phase product that has the potential for off gassing vapors underlies a building or is within 30 feet, horizontally or vertically of a building foundation.
- Petroleum contaminated soils with the potential for off gassing vapors are within 5 feet or less of a building foundation.
- Benzene concentrations in groundwater underlying a building is >1,000 ppb and there is less than 20 feet of unsaturated soil between the groundwater and the building.
- Groundwater contaminated with petroleum product above Wisconsin's groundwater preventive action limit (PAL) is entering a building or in contact

with a buildings foundation or is in water intercepted by the buildings foundation drainage system, including sumps.

- Petroleum vapors are present that may migrate from the petroleum source and move through preferential pathways (utility lines, fractured bedrock, etc.) into a building.

There is no structure on the Burnett Oil Company property, or on any of the immediate adjoining properties. Based depth to groundwater, soil types and contaminants of concern, it can be concluded that the threat for vapor migration from the petroleum release at the Burnett Oil Company site is not a possibility and further investigation into vapor migration is not warranted.

4.0 Evaluation of Environmental Factors

The five environmental factors were evaluated during the site investigation. These factors include:

a. Documented expansion of plume margin,
b. Verified contaminant concentrations in a private or potable well exceeding the PAL,
c. Contamination within bedrock or within 1 meter of bedrock,
d. Free phase petroleum product present with a thickness of 0.01 feet or more, verified by more than one sampling event, or
e. Documented contamination discharges to a surface water or wetland.

Site-specific characteristics indicate or suggest that none of the environmental factors have been triggered by the release at the Burnett Oil Company site.

4.1 Site Risk Classification

According to NR746.03(4) a "high-risk" site is been defined in SS 101.144(aq) as a release from a petroleum storage tank if one or more of the following applies:

1) Repeated tests determined the release has impacted a potable well used for human consumptive use.

2) Petroleum product that is not in a dissolved phase and present in a thickness of greater than 0.01 feet or more in repeated measurements.
3) An enforcement standard exceedance in groundwater within 1,000 feet of a municipal well or within 100 feet of any other well used for human consumptive use.
4) An enforcement standard exceedance in fractured bedrock.

Site-specific characteristics indicate or suggest that none of the high-risk criteria have been triggered by the release at the Burnett Oil Company site.

5.0 Recommended Remedial Action

REI recommends a soil excavation in the area identified in Figure 5. The soil excavation will extend to the limits of the petroleum impact. The maximum assumed depth of petroleum impact is estimated at fourteen (14) feet bls. Soils will be field screened to document headspace concentrations to aid in determining excavation limits. REI conservatively estimates approximately 1,867 cubic yards, or approximately 2,425 tons of soil be removed for offsite disposal at an approved location. REI recommends confirmation soil samples be collected for PVOC and naphthalene compounds.

Additionally, REI also recommends quarterly groundwater sampling of the existing monitoring well network and water level measurements from select wells transferred from the Webster VOC Contamination investigation. REI recommends the monitoring well samples be analyzed for PVOC and naphthalene compounds. In addition to the groundwater sampling, REI also recommends the completion and submittal of a construction documentation report following the soil excavation and an update reports after the completion of the second and fourth proposed groundwater sampling events.

6.0 Conclusions and Recommendations

REI recommends the completion of a soil excavation to remove the petroleum impacted soil from the subject property. The groundwater analytical results from the single sampling event suggest that the impact to groundwater is minimal. REI

also recommends continued groundwater sampling on a quarterly basis for a minimum of four (4) post excavation sampling events to confirm the effectiveness of the recommended remedial action. Case closure should be achievable prior to the PECFA deadline for the Burnett Oil Company investigation.

7.0 REFERENCES

Trotta, L.C., and Cotter, R.D., 1973, Depth to Bedrock in Wisconsin, University of Wisconsin - Extension Geological and Natural History Survey, Madison, Wisconsin.

Young, H.L. and Hindall, S.M., 1973, Water Resources of Wisconsin, St Croix River Basin, U.S. Geologic Survey Hydrologic Investigations Atlas HA-451, Washington D.C.

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
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 2
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			

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	33.63	32.46	32.20	29.11	31.90	32.84	32.25
Maximum	33.63	32.46	32.20	29.11	31.90	32.84	32.25
Minimum	33.63	32.46	32.20	29.11	31.90	32.84	32.25
Range	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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			

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

		Location --->		GP2
	ES	PAL	Units	05/27/93
VOC Parameters				
Benzene	5	0.5	µg/l	< 0.40
Ethylbenzene	700	140	µg/l	0.62*
Toluene	800	160	µg/l	1.1
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	1.5
Xylenes (mixed isomers)	2,000	400	µg/l	1.4*
Trimethylbenzenes (mixed isomers)	480	96	µg/l	4.6
Naphthalene	100	10	µg/l	7.00

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

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

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

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

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
Lead (Dissolved)	15	1.5	µg/l	< 3.0	NA
VOC Parameters					
Benzene	5	0.5	µg/l	< 0.50	NA
Ethylbenzene	700	140	µg/l	< 0.50	NA
Toluene	800	160	µg/l	< 0.50	NA
Methyl tert-Butyl Ether (MTBE)	60	12	µg/l	< 0.17	NA
Xylenes (mixed isomers)	2,000	400	µg/l	< 1.0	NA
Trimethylbenzenes (mixed isomers)	480	96	µg/l	< 0.50	NA
Naphthalene	100	10	µg/l	< 2.5	NA
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	NA	< 0.0057
Acenaphthylene			µg/l	NA	< 0.0047
Anthracene	3,000	600	µg/l	NA	< 0.0099
Benzo(a)Anthracene			µg/l	NA	< 0.0071
Benzo(a)Pyrene	0.2	0.02	µg/l	NA	< 0.0099
Benzo(b)Fluoranthene	0.2	0.02	µg/l	NA	< 0.0054
Benzo(ghi)Perylene			µg/l	NA	< 0.064
Benzo(k)Fluoranthene			µg/l	NA	< 0.0071
Chrysene	0.2	0.02	µg/l	NA	< 0.012
Dibenzo(a,h)anthracene			µg/l	NA	< 0.0095
Fluoranthene	400	80	µg/l	NA	< 0.010
Fluorene	400	80	µg/l	NA	< 0.0075
Indeno(1,2,3-cd)Pyrene			µg/l	NA	< 0.017
1-Methyl Naphthalene			µg/l	NA	< 0.0056
2-Methyl Naphthalene			µg/l	NA	< 0.0046
Naphthalene	100	10	µg/l	NA	< 0.017
Phenanthrene			µg/l	NA	< 0.013
Pyrene	250	50	µg/l	NA	< 0.0072

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

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

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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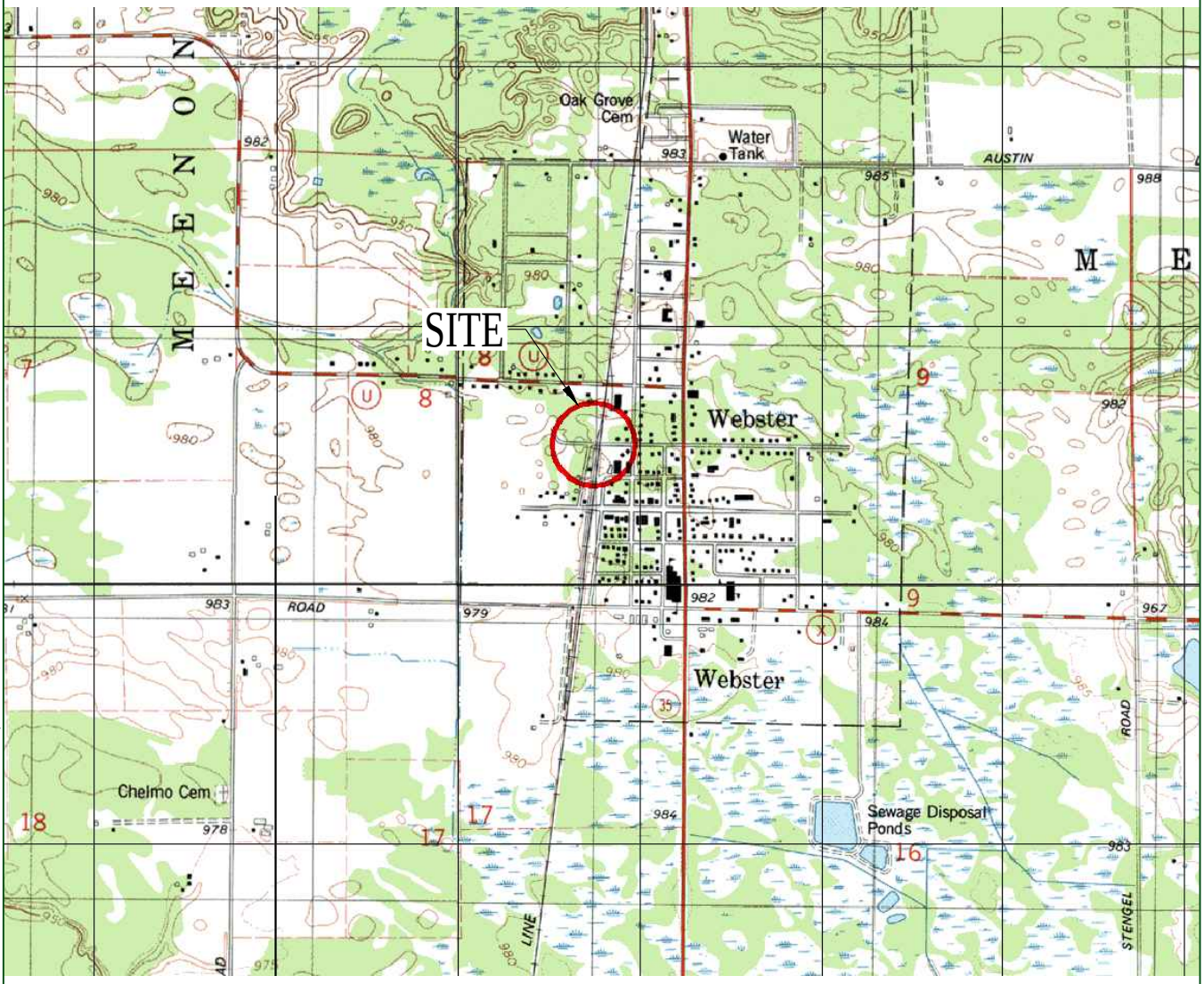
ENGINEERING, SURVEYING



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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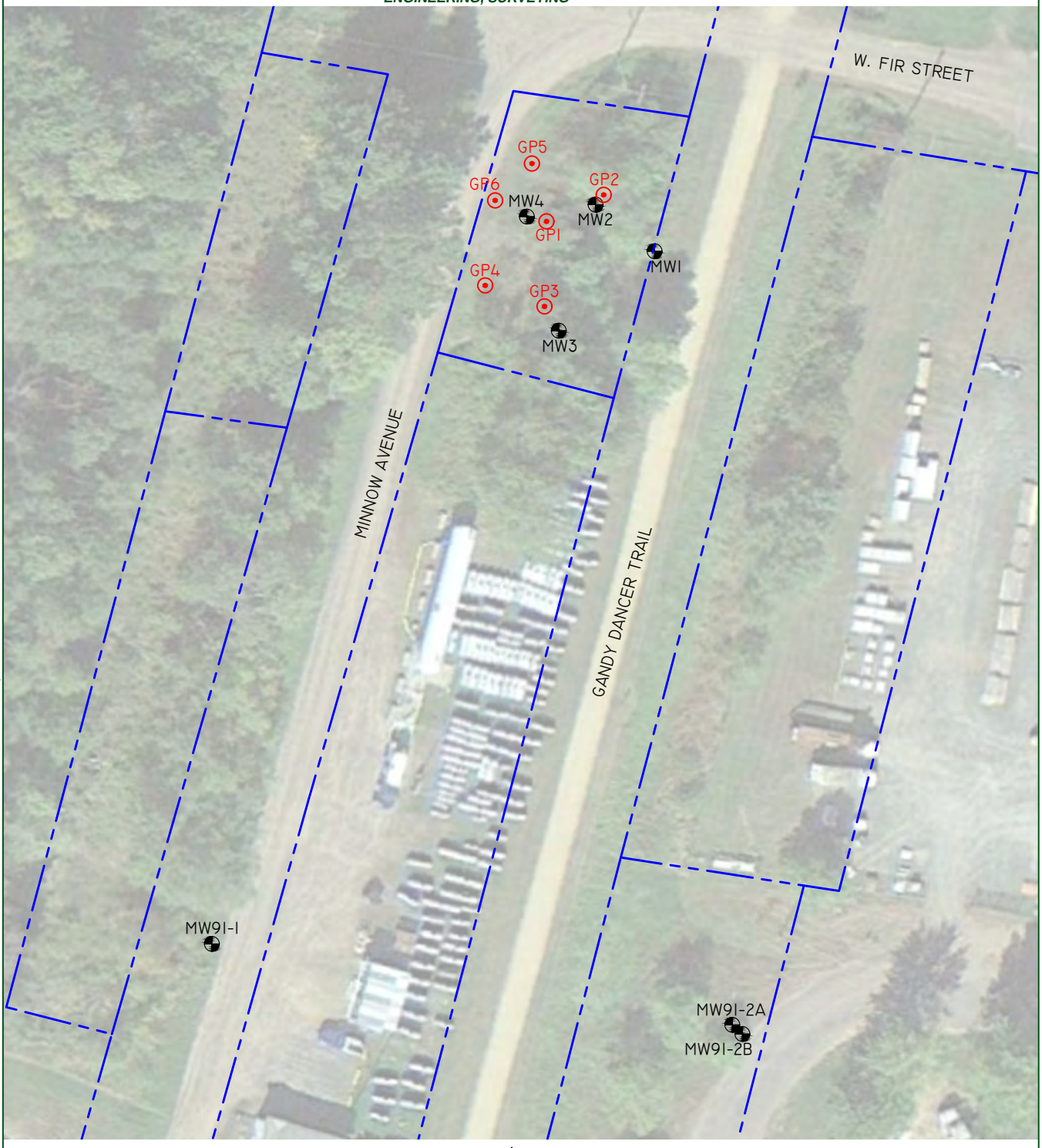


LEGEND

0 60

SCALE: 1" = 60'

GEOPROBE

MONITORING WELL

PROPERTY LINE (APPROXIMATE)

N

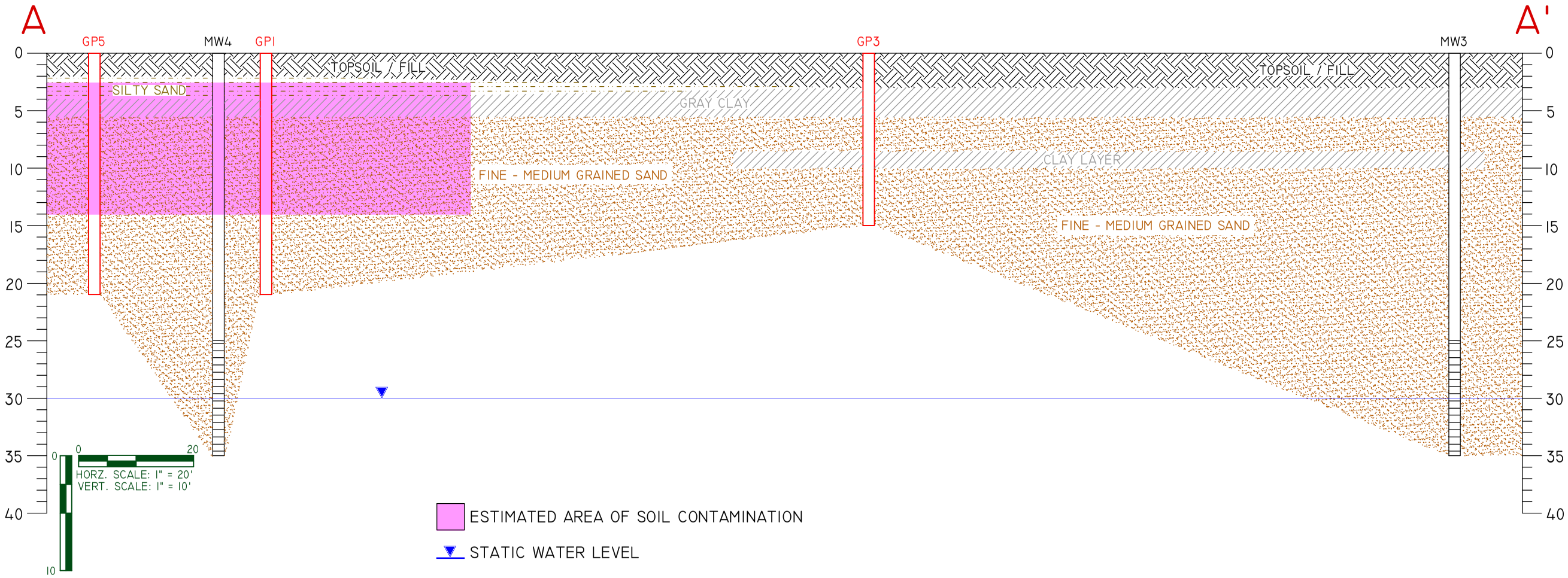
REI Engineering, INC.

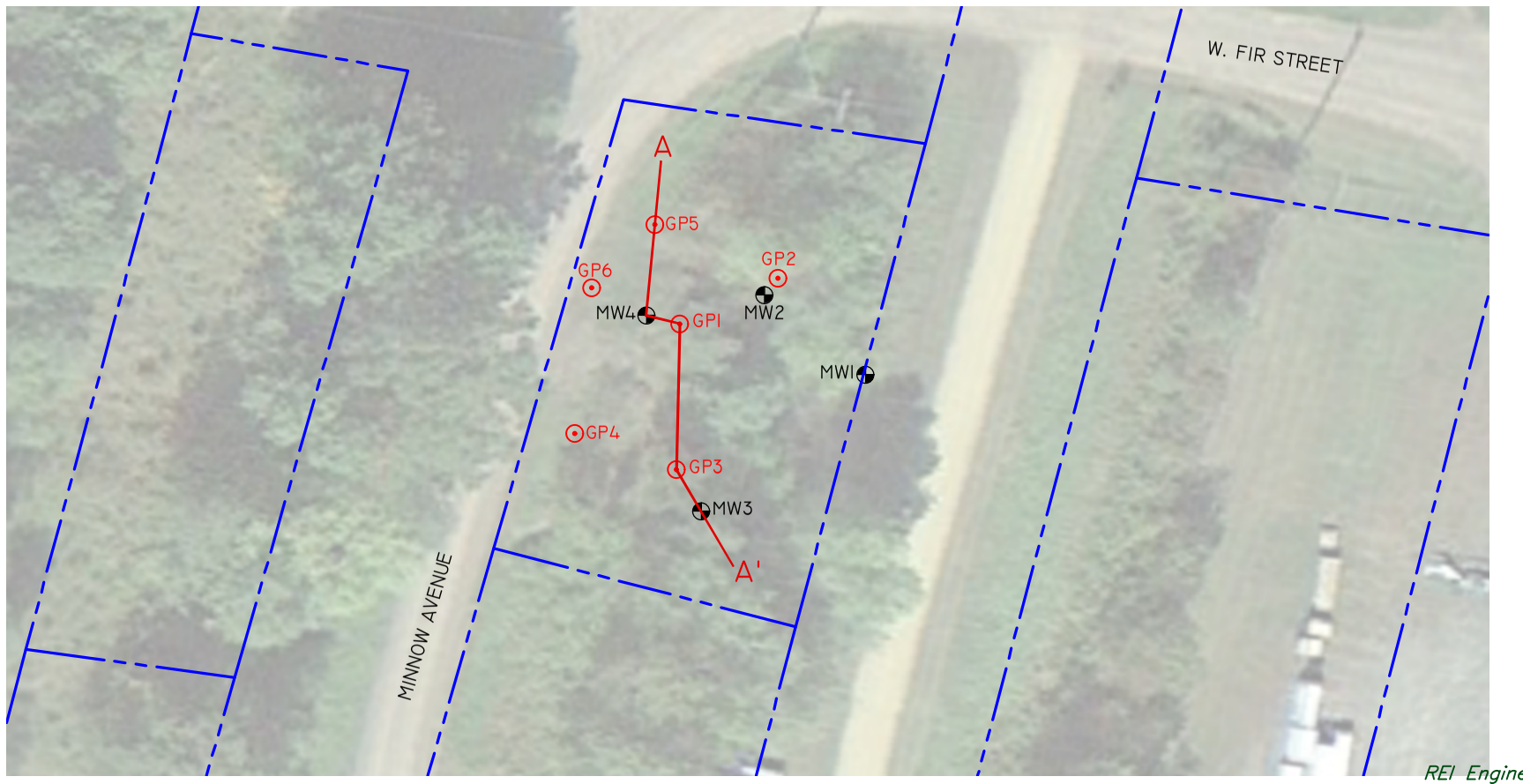
BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 2 : DETAILED SITE MAP

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

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SITE.DWG LAYOUT: SITE PLOTTED: MAR 10, 2017 - 10:04AM PLOTTED BY: ALANG





N

LEGEND

SCALE: 1" = 40'

GEOPROBE

MONITORING WELL

PROPERTY LINE (APPROXIMATE)

REI CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 3 : GEOLOGIC CROSS SECTION A – A'

PROJECT No.	DRAWN BY:	DATE:
6262	TAW	3/13/2017

REI Engineering, INC.

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-XS.DWG LAYOUT: XS PLOTTED: MAR 13, 2017 - 11:22AM PLOTTED BY: TODDW

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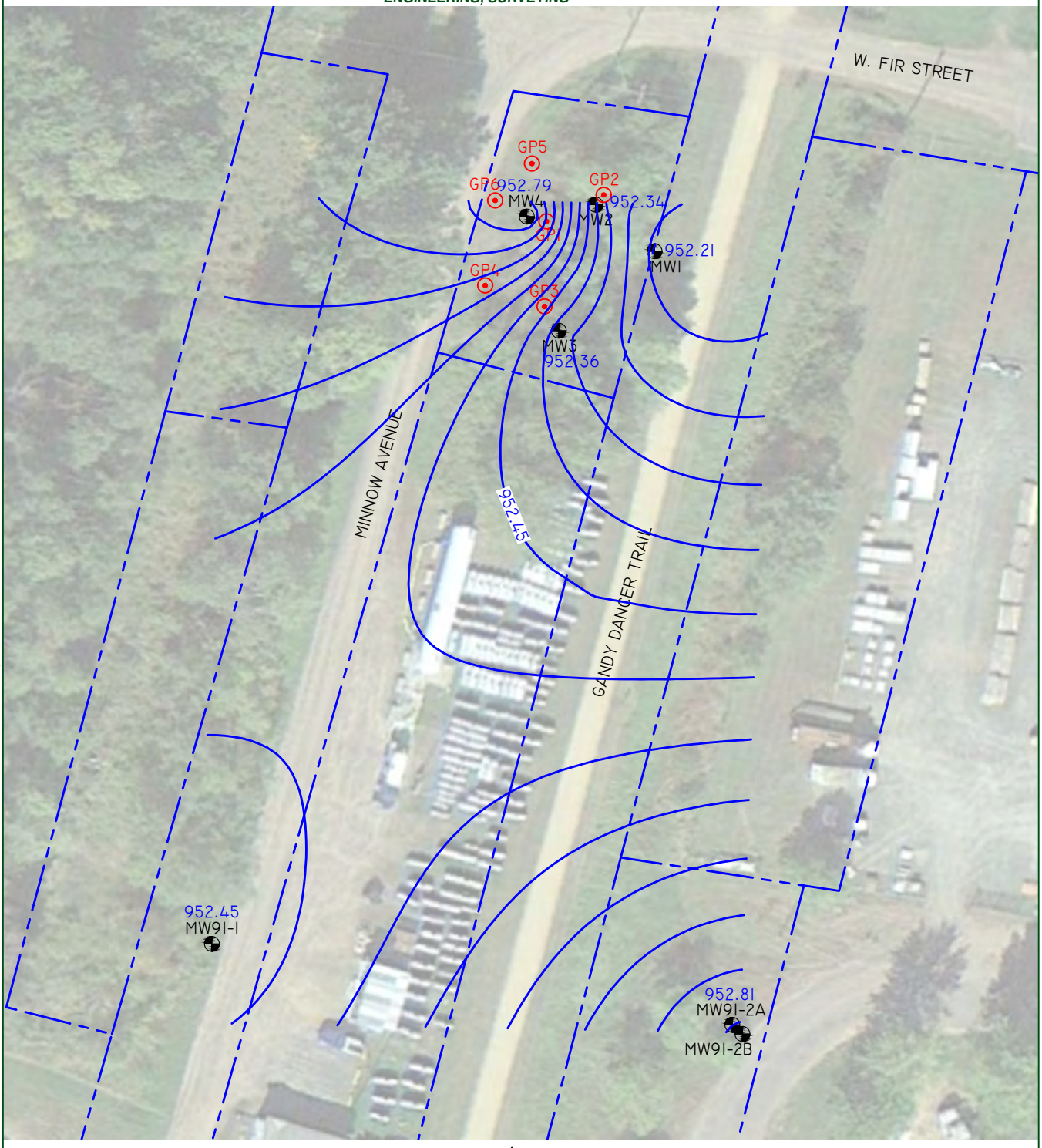

LEGEND

0 60

SCALE: 1" = 60'

GROUNDWATER CONTOUR LINE

MONITORING WELL

PROPERTY LINE (APPROXIMATE)

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 4 : GROUNDWATER CONTOUR MAP (SEPTEMBER 2016)

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

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-GW-0916.DWG LAYOUT: GW PLOTTED: MAR 10, 2017 - 10:12AM PLOTTED BY: ALANG

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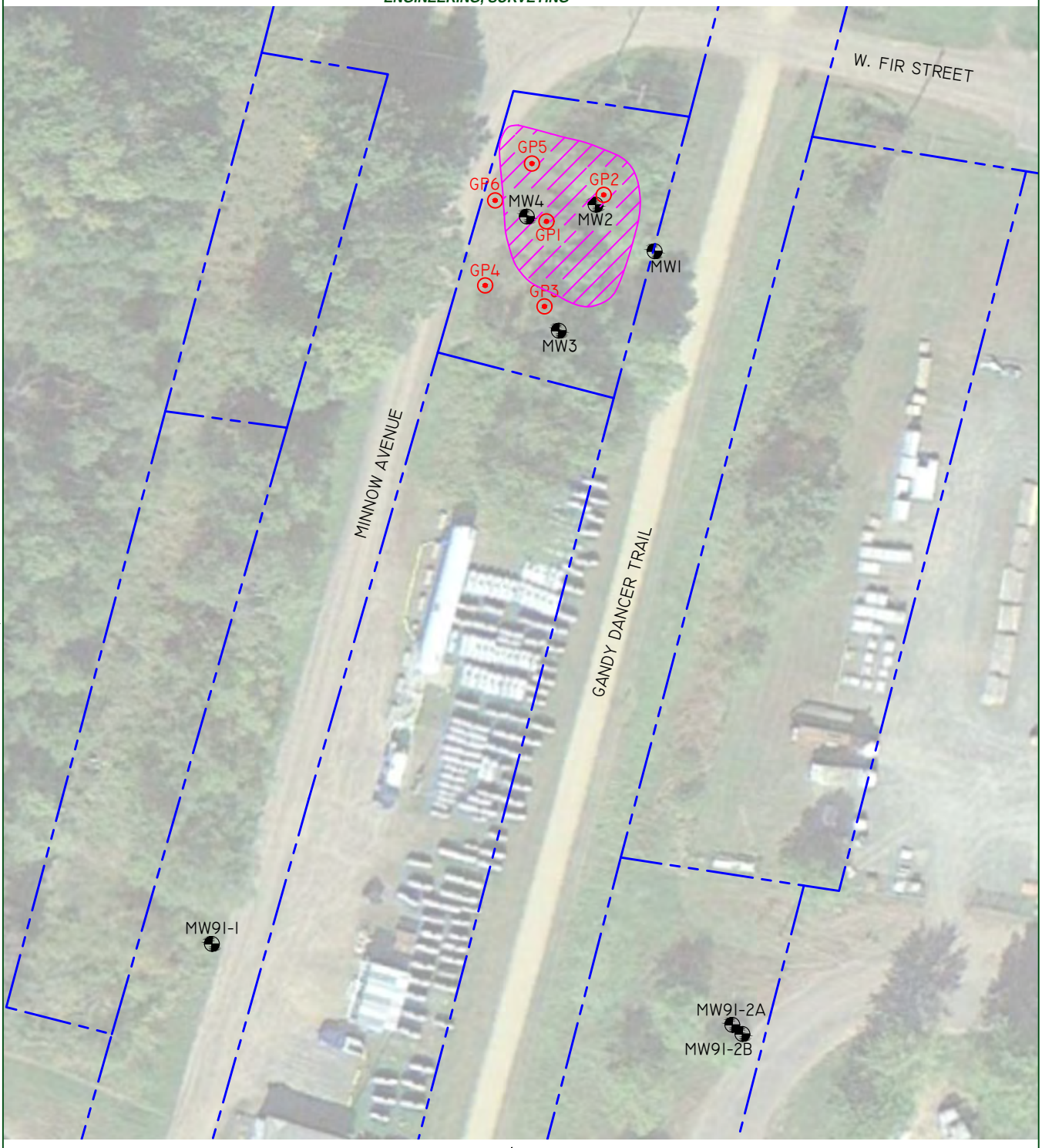


LEGEND

0 60

SCALE: 1" = 60'

GEOPROBE

MONITORING WELL

PROPERTY LINE (APPROXIMATE)

SOIL CONTAMINATION

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

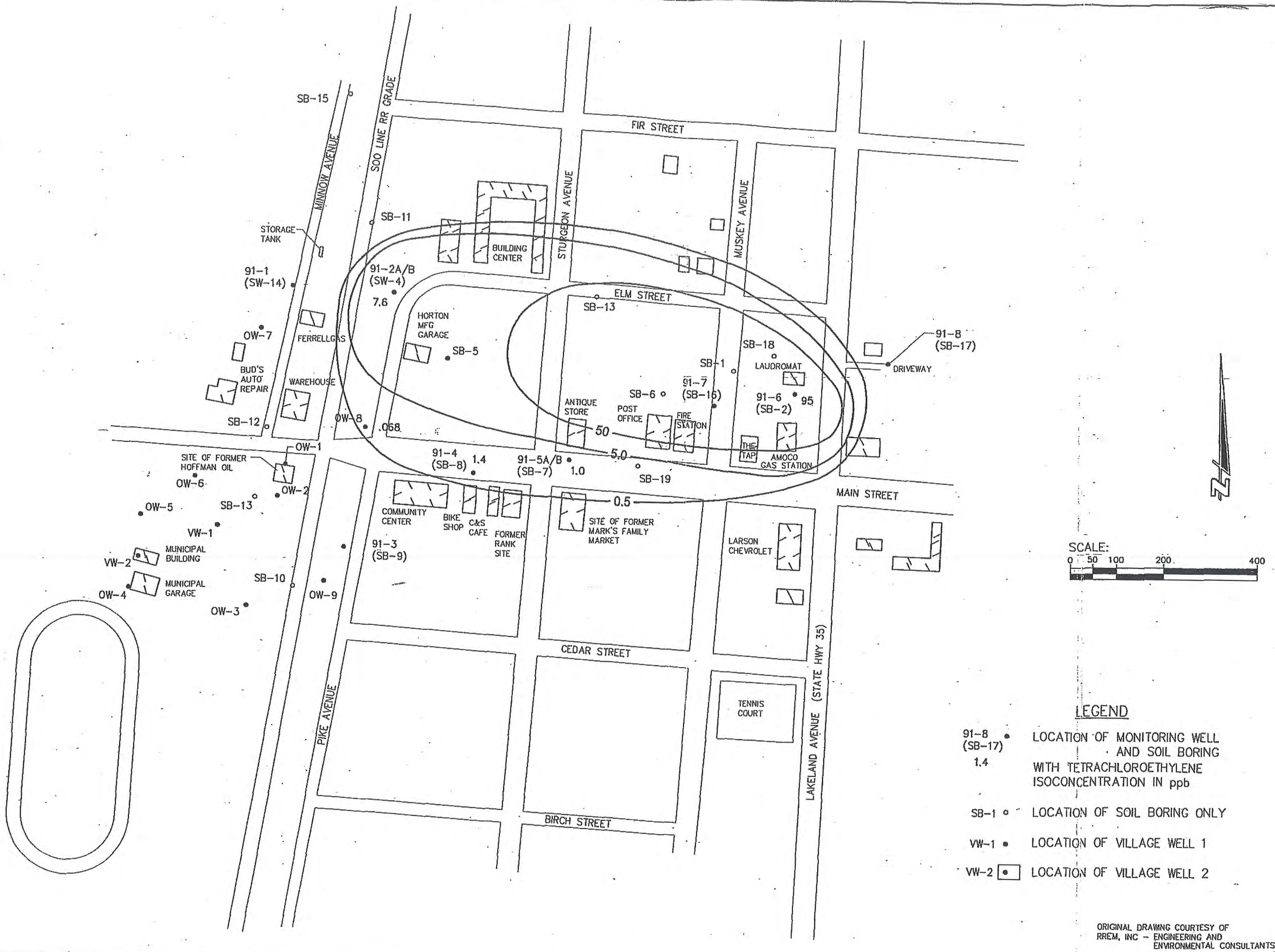
FIGURE 5 : ESTIMATED EXTENT OF SOIL CONTAMINATION

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

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SOIL_CONTAM.DWG LAYOUT: SITE PLOTTED: MAR 10, 2017 - 10:40AM PLOTTED BY: ALANG

APPENDIX A

FIGURE DEPICTING WEBSTER VOC CONTAMINATION WELL LOCATIONS



LEGEND

91-8 (SB-17) 1.4	LOCATION OF MONITORING WELL AND SOIL BORING WITH TETRACHLOROETHYLENE ISOCONCENTRATION IN ppb
SB-1	LOCATION OF SOIL BORING ONLY
VW-1	LOCATION OF VILLAGE WELL 1
VW-2	LOCATION OF VILLAGE WELL 2

ORIGINAL DRAWING COURTESY OF RREM, INC – ENGINEERING AND ENVIRONMENTAL CONSULTANTS

JOB NO.	W0950-021
BOOK NO.	--
DRAWN BY	KAT
CHECKED BY	RJY
DATE	SEP 2004
REVISIONS	
REFERENCE FILE	W019base.dwg
DRAWING FILE	W019base.dwg

Cedar corporation
604 Wilson Avenue
Menomonie, Wisconsin 54751
715-235-9081
800-472-2372
FAX 715-235-2727
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engineers • architects • planners • environmental specialists
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Wis. Dept of Natural Resources
WEBSTER GROUNDWATER MONITORING
WEBSTER, WISCONSIN
TETRACHLOROETHYLENE ISOCONCENTRATION MAP

FIGURE 1

I:\Clients\W0950 WDNR\21 Webster GW Monitoring\dwg\W021base.dwg 9/16/2004 11:54:35 AM CDT

APPENDIX B

POTABLE WELL CONSTRUCTION LOGS

Well Construction Report For *WISCONSIN UNIQUE WELL NUMBER* EJ776

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Form 3300-77A (R 8/00)

Property Owner: **WEBSTER COOP SERVICES** | Telephone Number: **715-866-8681**

Mailing Address: **7461 W HICKORY S**

City: **WEBSTER** | State: **WI** | Zip Code: **54893**

County of Well Location: **Burnett** | County Well Permit No.: **W** | Well Completion Date: **08/01/1995**

1. Well Location: ☐ Town ☐ City ☒ Village of **WEBSTER** | Fire # (if available):

Grid or Street Address or Road Name and Number: **7461 W HICKORY**

Subdivision Name | Lot # | Block #

Well Constructor (Business Name): **TRAUT MARK J WELLS INC** | License #: **5912** | Facility ID Number (Public Wells):

Address: **151 72ND AVE S** | Public Well Plan Approval #: **W--07-6-0005**

City: **ST CLOUD** | State: **MN** | Zip Code: **56301** | Date of Approval (mm/dd/yyyy): **09/04/1996**

Hicap Permanent well #: **1957** | Common Well #: | Specific Capacity: **70** gpm/ft

Gov't Lot # | or **NE** 1/4 of **NE** 1/4 of Section **8** T **39** N; R **16** ☐ E ☒ W

Latitude Deg. Min.
Longitude Deg Min.

2. Well Type: ☒ New ☐ Replacement ☐ Reconstruction
of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

Lat/Long Method: **GPS008**

3. Well serves # of homes and or **RECOVERY WELL** (e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? ☒ Yes ☐ No
Property? ☐ Yes ☐ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? ☒ Yes ☐ No

Well located within 1,200 feet of a quarry? ☐ Yes ☐ No If yes, distance in feet from quarry:

Well located in floodplain? ☐ Yes ☒ No

Distance in Feet from Well to Nearest:

- 1 Landfill
- >50 2. Building Overhang
- 3. Septic ☐ Holding Tank ☐
- 4. Sewage Absorption Unit
- 5. Nonconforming Pit
- 6. Buried Home Heating Oil Tank
- >100 7. Buried Petroleum Tank
- 8. Shoreline ☐ Swimming Pool ☐
- >50 9. Downspout/Yard Hydrant
- 10. Privy
- 11. Foundation Drain to Clearwater
- >50 12. Foundation Drain to Sewer
- >50 13. Building Drain ☒ Cast Iron or Plastic ☐ Other
- >50 14. Building Sewer ☒ Gravity ☐ Pressure ☒ Cast Iron or Plastic ☐ Other
- 15. Collector or Street Sewer: ☐ Sanitary ☐ Storm units ☐ =< 6 ☐ > 6 in. diam.
- 16. Clearwater Sump
- 17. Wastewater Sump
- 18. Paved Animal Barn Pen
- 19. Animal Yard or Shelter
- 20. Silo
- 21. Barn Gutter
- 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
- 23. Other Manure Storage
- 24. Ditch
- 25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)
6	0	60

Upper Enlarged Drillhole / Lower Open Bedrock

- ☐ ☐ ---1. Rotary - Mud Circulation----------
- ☐ ☐ ---2. Rotary - Air----------
- ☐ ☐ ---3. Rotary - Air and Foam----------
- ☐ ---4.Drill-Through Casing Hammer
- ☐ ---5. Reverse Rotary
- ☒ ---6. Cable-tool Bit **6** in. dia------ ☐
- ☐ 7. Dual Rotary ☐
- ☐ 8. Temp. Outer Casing in. dia. depth (ft)
  Removed? ☐ Yes ☐ No
  If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
T-S- BROWN SAND	0	60

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6	SCH 40 BLACK STEEL A53 GRADE B	0	30

Dia. (in.)	Screen type, material & slot size		
6	STEEL SCREEN JOHNSON	30	60

9. Static Water Level
ft. above ground surface
37 ft. below ground surface

10. Pump Test
Pumping Level **38** ft. below surface
Pumping at **70** GPM for **24** hours

11. Well is: ☒ Above Grade ☐ Below Grade **18** in.
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

7. Grout or Other Sealing Material Method
Method: **TREMIE @ PUMPED**

Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT	0	28	21

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
☒ Yes ☐ No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller: **MJT** Date signed: **08/01/1995**

Signature of Drill Rig Operator (Mandatory unless same as above): **BS** Date signed: **08/01/1995**

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued ☐ Yes ☒ No

Department of Natural Resources

Well Construction Report Comment Sheet
Form 3300-77A **Rev. 8/00**

Well Codes and Identifiers

Geologic Log No

SID Number

Common Well Name

Well Notification #

Batch Seq # 437

Abandonment

Abandonment Type	*Date of Abandonment*	*Abandonment Procedure*	*Reason*
Permanent			REMEDIATION

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER EJ777

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions

Form 3300-77A (R 8/00)

Property Owner: WEBSTER COOP SERVICES
Telephone Number: 715-866-8681
Mailing Address: 7461 W HICKORY S
City: WEBSTER
State: WI
Zip Code: 54893
County of Well Location: Burnett
County Well Permit No.: W
Well Completion Date: 08/01/1995

1. Well Location: [ ] Town [ ] City [X] Village of WEBSTER
Fire # (if available):
Grid or Street Address or Road Name and Number: 7461 W HICKORY
Subdivision Name: Lot #: Block #:

Well Constructor (Business Name): TRAUT MARK J WELLS INC
License #: 5912
Facility ID Number (Public Wells):
Address: 151 72ND AVE S
Public Well Plan Approval #: W--07-6-0005
City: ST CLOUD
State: MN
Zip Code: 56301
Date of Approval (mm/dd/yyyy): 09/04/1996
Hicap Permanent well #: 1956
Common Well #:
Specific Capacity: 70 gpm/ft

Gov't Lot #: or NE 1/4 of NE 1/4 of
Section 8 T 39 N; R 16 [ ] E [X] W
Latitude Deg. Min.
Longitude Deg. Min.

2. Well Type: [X] New [ ] Replacement [ ] Reconstruction
Lat/Long Method: GPS008
of previous unique well # constructed in
Reason for replaced or Reconstructed Well?

3. Well serves # of homes and or RECOVERY WELL (e.g. barn, restaurant, church, school, industry, etc.)
High capacity Well? [X] Yes [ ] No
Property? [ ] Yes [ ] No

[X] Drilled [ ] Driven Point [ ] Jetted [ ] Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? [X] Yes [ ] No
Well located within 1,200 feet of a quarry? [ ] Yes [ ] No If yes, distance in feet from quarry:
Well located in floodplain? [ ] Yes [X] No

Distance in Feet from Well to Nearest:
1. Landfill
>50 2. Building Overhang
3. Septic [ ] Holding Tank [ ]
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
>100 7. Buried Petroleum Tank
8. Shoreline [ ] Swimming Pool [ ]
>50 9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
>50 12. Foundation Drain to Sewer
>50 13. Building Drain [X] Cast Iron or Plastic [ ] Other
>50 14. Building Sewer [X] Gravity [ ] Pressure [X] Cast Iron or Plastic [ ] Other
15. Collector or Street Sewer: [ ] Sanitary [ ] Storm units in. diam. [ ] =< 6 [ ] > 6
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)
6	0	60

Upper Enlarged Drillhole / Lower Open Bedrock
[ ] ---1. Rotary - Mud Circulation----------
[ ] ---2. Rotary - Air----------
[ ] ---3. Rotary - Air and Foam----------
[ ] ---4.Drill-Through Casing Hammer
[ ] ---5. Reverse Rotary
[X] ---6. Cable-tool Bit 6 in. dia------
[ ] 7. Dual Rotary
[ ] 8. Temp. Outer Casing in. dia. depth (ft)
Removed? [ ] Yes [ ] No
If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
T-S- BROWN SAND	0	60

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
6	SCH 40 BLACK STEEL A53 GRADE B	0	30

Dia. (in.)	Screen type, material & slot size		
6	STEEL SCREEN JOHNSON	30	60

9. Static Water Level
ft. above ground surface
37 ft. below ground surface

10. Pump Test
Pumping Level 38 ft. below surface
Pumping at 70 GPM for 24 hours

11. Well is: [X] Above Grade 18 in. [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

7. Grout or Other Sealing Material. Method
Method: TREMIE @ PUMPED
Kind of Sealing Material

	From (ft.)	To (ft.)	# Sacks Cement
NEAT CEMENT	0	28	21

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
[X] Yes [ ] No If no, explain:

13. Signature of the Well Constructor or Supervisory Driller: MJT
Date signed: 08/01/1995

Signature of Drill Rig Operator (Mandatory unless same as above): BS
Date signed: 08/01/1995

Make additional comments on reverse side about geology, additional screens, water quality, etc.

Variance issued [ ] Yes [X] No

Department of Natural Resources

Well Construction Report Comment Sheet
Form 3300-77A **Rev. 8/00**

Well Codes and Identifiers

Geologic Log No	
SID Number	
Common Well Name	
Well Notification #	
Batch Seq #	437

Abandonment

Abandonment Type	*Date of Abandonment*	*Abandonment Procedure*	*Reason*
Permanent			REMEDIATION

Well Construction Report For WISCONSIN UNIQUE WELL NUMBER VF797

State of WI - Private Water Systems - DG/2
Department of Natural Resources, Box 7921
Madison, WI 53707
Please type or Print using a black Pen
Please Use Decimals Instead of Fractions.

Form 3300-77A (R 8/00)

Property Owner: **WILEY, ROBERT & DEBBIE** | Telephone Number: **760-735-9890**

Mailing Address: **PO BOX 759**

City: **ESCONDIDO** | State: **CA** | Zip Code: **92033**

County of Well Location: **Burnett** | County Well Permit No.: **W** | Well Completion Date: **07/12/2010**

1. Well Location: [ ] Town [ ] City [X] Village of **WEBSTER** | Fire # (if available): **7488**

Grid or Street Address or Road Name and Number: **7488 W FIR ST**

Subdivision Name | Lot # | Block #

Well Constructor (Business Name): **ROBERT WILEY** | License # | Facility ID Number (Public Wells)

Address: **PO BOX 759** | Public Well Plan Approval #: **W--**

City: **ESCONDIDO** | State: **CA** | Zip Code: **92033** | Date of Approval (mm/dd/yyyy)

Hicap Permanent well # | Common Well # | Specific Capacity gpm/ft

Gov't Lot # | or **SW** 1/4 of **SE** 1/4 of

Section **8** T **39** N; R **16** [ ] E [X] W

Latitude Deg. **45** Min. **52.626**

Longitude Deg. **92** Min. **22.474**

2. Well Type: [X] New [ ] Replacement [ ] Reconstruction | Lat/Long Method: **GPS008**

of previous unique well # constructed in

Reason for replaced or Reconstructed Well?

3. Well serves **1** # of homes and or **SHOP** (e.g. barn, restaurant, church, school, industry, etc.)

High capacity Well? [ ] Yes [X] No

Property? [ ] Yes [X] No

[ ] Drilled [X] Driven Point [ ] Jetted [ ] Other:

4. Is the well located upslope or sideslope and not downslope from any contamination source, including those on neighboring properties? [ ] Yes [ ] No

Well located within 1,200 feet of a quarry? [ ] Yes [X] No If yes, distance in feet from quarry:

Well located in floodplain? [ ] Yes [X] No

Distance in Feet from Well to Nearest:

1. Landfill
2 2. Building Overhang
3. Septic [ ] Holding Tank [ ]
4. Sewage Absorption Unit
5. Nonconforming Pit
6. Buried Home Heating Oil Tank
7. Buried Petroleum Tank
8. Shoreline [ ] Swimming Pool [ ]
9. Downspout/Yard Hydrant
10. Privy
11. Foundation Drain to Clearwater
12. Foundation Drain to Sewer
13. Building Drain [ ] Cast Iron or Plastic [ ] Other
14. Building Sewer [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
15. Collector or Street Sewer: [ ] Sanitary [ ] Storm units in. diam. [ ] =< 6 [ ] > 6
16. Clearwater Sump
17. Wastewater Sump
18. Paved Animal Barn Pen
19. Animal Yard or Shelter
20. Silo
21. Barn Gutter
22. Manure Pipe [ ] Gravity [ ] Pressure [ ] Cast Iron or Plastic [ ] Other
23. Other Manure Storage
24. Ditch
25. Other NR 812 Waste Storage

5. Drillhole Dimensions and Construction Method

Dia (in.)	From (ft.)	To (ft.)

Upper Enlarged Drillhole / Lower Open Bedrock

[ ] ---1. Rotary - Mud Circulation---------- [ ]
[ ] ---2. Rotary - Air---------- [ ]
[ ] ---3. Rotary - Air and Foam---------- [ ]
[ ] ---4. Drill-Through Casing Hammer
[ ] ---5. Reverse Rotary
[ ] ---6. Cable-tool Bit in. dia------ [ ]
[ ] 7. Dual Rotary [ ]
[ ] 8. Temp. Outer Casing in. dia. depth (ft)
Removed? [ ] Yes [ ] No
If no, why not?

8. Geology

Type, Caving/Noncaving, Color, Hardness, etc	From (ft.)	To (ft.)
--S- SAND	0	50

6. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification	From (ft.)	To (ft.)
2	WHEATLAND ASTM A-53 SCH 40 GALV	0	47

9. Static Water Level
ft. above ground surface
35.5 ft. below ground surface

11. Well is: [X] Above Grade **16** in. [ ] Below Grade
Developed? [X] Yes [ ] No
Disinfected? [X] Yes [ ] No
Capped? [X] Yes [ ] No

10. Pump Test
Pumping Level **35.5** ft. below surface
Pumping at **6** GPM for **2** hours

Dia. (in.)	Screen type, material & slot size		
2	80 GA STAINLESS STEEL	47	50

7. Grout or Other Sealing Material. Method

Method: Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
	0		

12. Did you notify the owner of the need to permanently abandon and fill all unused wells on this property?
[ ] Yes [X] No If no, explain: **NONE**

13. Signature of the Well Constructor or Supervisory Driller: **RW** Date signed: **08/04/2010**

Signature of Drill Rig Operator (Mandatory unless same as above) Date signed

Make additional comments on reverse side about geology, additional screens, water quality, etc. **Variance issued** [ ] Yes [X] No

Department of Natural Resources

Well Codes and Identifiers

Well Construction Report Comment Sheet
Form 3300-77A **Rev. 8/00**

Geologic Log No	
SID Number	
Common Well Name	
Well Notification #	37361532
Batch Seq #	1198

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

AUG - 4 1982

1. COUNTY: Burnett

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City Name: Meenon

2. LOCATION: ¼ Section or Gov't. Lot: nw sw | Section: 8 | Township: 39n | Range: 16w

OR – Grid or Street No. | Street or Road Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Denver Peterson

ADDRESS: Rt. 1

POST OFFICE: Webster, Wis. ZIP CODE: 54893

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
4										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other				Seepage Pit	
				Clearwater Dr.	Clearwater Sump						Seepage Bed	
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well									
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin Concrete Floor Only Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	Surface	13	6	13	70-8

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	new black steel 18.97 lbs per ft.	Surface	66-8
	astm a120 Valley Steel		
	Welded joints		
4	stainless steel screen 12 slot	66-2	70-8

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
drill cuttings	Surface	13

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sandy clay & rocks	Surface	13
fine silty sand	13	52
uniform sand	52	70-8

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with Air / Water

Well construction completed on 7-30 19 82

11. MISCELLANEOUS DATA

Yield Test: ½ Hrs. at 30 GPM

Depth from surface to normal water level 40 Ft.

Depth of water level when pumping 50 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to State Lab. of Hygiene laboratory on 8-2 19 82

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Gary Beecroft Registered Well Driller

Business Name and Complete Mailing Address: 3049035
Gary Beecroft Well Drilling
Rt. 1 Box 194-A Siren, Wis. 54872

408 plot

Well Construction Report For CF 807
WISCONSIN UNIQUE WELL NUMBER

State of Wisconsin
Department of Natural Resources
Private Water Supply — WS/2
Box 7921
Madison, WI 53707

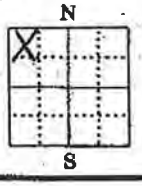
OCT 0 3 1989

Property Owner: Calvin Petersen | Telephone Number: 715 866 - 4313
Mailing Address: 7902 County Rd FF
City: Webster | State: WI | Zip Code: 54893
County of Well Location: Burnett | County Well Permit No.: W | Well Completion Date: 9 20 89 (M M D D Y Y)

07

Well Constructor (Business Name): Gary Beecroft | Registration #: 137
Address: Rt. 1 Box 1073
City: Siren | State: WI | Zip Code: 54872

2. Mark well location in correct 40-acre parcel of section.



1. Location (Please type or print using a black pen.)
☒ Town ☐ City ☐ Village of MEENON | Fire # (if available)
Grid or Street Address or Road Name and Number (if available)
Subdivision Name | Lot # | Block #
Gov't Lot # ____ or NW ¼ of NW ¼ of Section 8 ; T 39 N; R 16 ☐ E ☒ W

3. Well Type ☒ New ☐ Replacement ☐ Reconstruction
of unique well # ____ constructed in 19 ____
Reason for new, replaced or reconstructed well? to get better quality water

4. Well serves 1 # of homes and/or barn (ex: barn, restaurant, church, school, industry, etc.)
High Capacity Well? ☐ Yes ☒ No
High Capacity Property? ☐ Yes ☒ No

☒ Drilled ☐ Driven Point ☐ Jetted ☐ Other ____

5. Well Located on Highest Point of Property, Consistent with the General Layout and Surroundings? ☒ Yes ☐ No If no, explain on back side.
Well Located in Floodplain? ☐ Yes ☒ No
Distance In Feet From Well To Nearest:

____ 1. Landfill	____ 9. Downspout/Yard Hydrant	____ 17. Wastewater Sump
12 2. Building Overhang	____ 10. Privy	____ 18. Paved Animal Barn Pen
73 3. Septic or Holding Tank	____ 11. Foundation Drain to Clearwater	70 19. Animal Yard or Shelter
50 4. Sewage Absorption Unit	____ 12. Foundation Drain to Sewer	____ 20. Silo — Type ____
____ 5. Nonconforming Pit	____ 13. Building Drain ☐ Cast Iron or Plastic ☐ Other	____ 21. Barn Gutter
____ 6. Buried Home Heating Oil Tank	____ 14. Building Sewer ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other	____ 22. Manure Pipe ☐ Gravity ☐ Pressure ☐ Cast Iron or Plastic ☐ Other
____ 7. Buried Petroleum Tank	____ 15. Collector or Street Sewer	____ 23. Other Manure Storage ____ Other NR 112 Waste Source
____ 8. Shoreline/Swimming Pool	____ 16. Clearwater Sump	____ 24. ____

6. Drillhole Dimensions

Dia. (in.)	From (ft.)	To (ft.)
10	surface	6
6	6	~~115~~ 111
		(115.916)

Method of constructing upper enlarged drillhole only.
☐ 1. Rotary — Mud Circulation
☐ 2. Rotary — Air
☐ 3. Rotary — Foam
☐ 4. Reverse Rotary
☒ 5. Cable-tool Bit 10 in. dia.
☐ 6. Temp. Outer Casing ____ in. dia. Removed? ☐ Yes ☐ No
If no, explain ____
☐ 7. Other ____

DNR USE ONLY

9. Geology — Type, Caving/Noncaving, Color, Hardness, Etc.

		From (ft.)	To (ft.)
CS	Sandy clay	surface	4
C	clay	4	6
SG	sand & gravel	6	63
CS	sandy clay	63	~~105~~ 103
S	sand	105	~~115~~ 111
			(115.916)

7. Casing, Liner, Screen

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
6	New Black Steel 18.97 Lbs per Ft.	surface	~~111~~ 111
	Astm A53B .280 Wall thickness		(111.916)
	Sumitomo Metals		
	Welded Joints	(1.5)	(111.916)
Dia. (in.)	screen type and material	From	To
4	Stainless Steel Screen 12 Slot	~~111~~ 111	~~115~~ 111

8. Grout or Other Sealing Material

Method ____ Kind of Sealing Material	From (ft.)	To (ft.)	# Sacks Cement
drill cuttings	surface	6	

10. Static Water Level
____ ft. above ground level
49 ft. below ground surface

11. Pump Test
Pumping Level 105 ft. below surface
Pumping at 6 GPM for 2 hours

12. Well Is:
8 in. ☒ Above ☐ Below Grade
Developed? ☒ Yes ☐ No
Disinfected? ☒ Yes ☐ No
Capped? ☒ Yes ☐ No

13. Did you permanently seal all unused, noncomplying, or unsafe wells? ☐ Yes ☐ No If no, explain ____

14. Signature of Pump Driver or Registered Driller: Gary Beecroft GB | Date Signed: 10-1-89
Signature of Drill Rig Operator: Gary Beecroft GB | Date Signed: 10-1-89

Make additional comments on reverse side about geology, etc.

409

DNR

WELL CONSTRUCTION REPORT
Form 3300-77A Rev. 9-88

OWNERS ORIGINAL

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

MAR 27 1985

1. COUNTY: Burnett
CHECK (✓) ONE: ☑ Town ☐ Village ☐ City
Name: Meenon

2. LOCATION: ¼ Section or Gov't. Lot: NE SW | Section: 5 | Township: 39N | Range: 16W
OR – Grid or Street No. / Street or Road Name: NE, sec. 8
AND – If available subdivision name, lot & block No.

3. NAME ☑ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Harold McCann
ADDRESS: Rt2 Box 1009
POST OFFICE: Siren, Wis. ZIP CODE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
6										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump		Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer		Sewage Sump		C.I.	Other			Seepage Pit	
				Clearwater Dr.		Clearwater Sump				60		Seepage Bed	
												Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	52			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
4	10.79 Newlon steel A120 J.T Welded joint	Surface	49
4	screen	49	52

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	52

10. TYPE OF DRILLING MACHINE USED
☑ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☐ Jetting with Air Water

Well construction completed on 2-21 1985

11. MISCELLANEOUS DATA
Yield Test: 1 Hrs. at 10 GPM
Depth from surface to normal water level 32 Ft.
Depth of water level when pumping 45 Ft. Stabilized ☑ Yes ☐ No

Well is terminated 8 inches ☑ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to Madison laboratory on 3-25 1985

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Clarence Beecroft Registered Well Driller

Business Name and Complete Mailing Address:
Clarence Beecroft & Sons
Well Drilling - Water Systems
Route 2, Box 137
Frederic, Wisconsin 54837

410

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

SEP 5 1973

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Burnett

CHECK ONE: ☐ Town ☒ Village ☐ City

NAME: Webster

2. LOCATION – ¼ Section: NW of SW | Section: 8 | Township: 39n | Range: 16w

3. OWNER AT TIME OF DRILLING: Village of Webster

OR – Grid or street no. | Street name

ADDRESS

AND – If available subdivision name, lot & block no.

POST OFFICE: Webster, Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

5. Well is intended to supply water for: Village Well #2

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
12	Surface	43	8	43	72

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
12		Surface	43
8	25# new black ~~welded~~ Welded J	0 ~~43~~	60
8	Screen	60	72

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
neat cement	Surface	40

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & little clay	Surface	55
Clean sand	55	72

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

Well construction completed on 8-27 19 73

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 24 Hrs. at 50 GPM

Depth from surface to normal water level 50 ft.

Depth to water level when pumping 55 ft.

Water sample sent to Madison laboratory on: 9*4 1973

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Clarence Beecroft Registered Well Driller

COMPLETE MAIL ADDRESS: Frederic, Wis Rt 2 54837

1316

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS
File – 565 – Dist.				

REV. 3–71

Bt-6

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Burnett — Town ☐ Village ☒ Webster, Wis. City ☐ (Check one and give name)

2. Location NE, SE, NE, SW, SE, Sec. 8, T. 39, R. 16W
Name of street and number of premise or Section, Town and Range numbers

RECEIVED SEP 2 1953 ENVIRONMENTAL SANITATION

3. Owner ☐ or Agent ☐ Village of Webster, Wis.
Name of individual, partnership or firm

4. Mail Address Webster, Wisconsin.
Complete address required

5. From well to nearest: Building ____ ft; sewer ____ ft; drain ____ ft; septic tank ____ ft; dry well or filter bed ____ ft; abandoned well ____ ft.

6. Well is intended to supply water for: Village of Webster

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
16" O.D.	0	45			
10" I.D.	45	65			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
16" O.D.	Steel-65#	0	45
10" I.D.	GWI - 35#	+ 3	56'
10"	Johnson EverdurScreen	10'7"	
	Depth of Well	68'	

9. GROUT:

Kind	From (ft.)	To (ft.)
1 to 1	0	45'

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Sand, medium to fine	0	65

Construction of the well was completed on: January 27, 1953

The well is terminated 36 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes X No

Was the well sealed watertight upon completion? Yes X No

11. MISCELLANEOUS DATA:

Yield test: 4 Hrs. at 75 GPM.

Depth from surface to water-level: 32 ft.

Water-level when pumping: 55 ft.

Water sample was sent to the state laboratory at: Madison, Wis. (City) on Dec. 29 1952

KEYS WELL DRILLING COMPANY.

Signature Stanley N. Keys (Registered Well Driller)

413 No. Lexington, St. Paul 4, Minn. (Complete Mail Address)

Please do not write in space below

Rec'd ____ No. ____

Ans'd ____

Interpretation ____

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ____

1317

plot

3050059

treat as original DRY WELL

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

JC 2663 B1-1

1. County BURNETT (Town ☐ Village ☑ City ☐) WEBSTER — Check one and give name

2. Location WEST SIDE of THE VILLAGE — Name of street and number of premise or Section, Town and Range numbers — NE,SE,SE, Sec 8, T39N, R16W

3. Owner ☐ or Agent ☐ VILLAGE of WEBSTER — Name of individual, partnership or firm

4. Mail Address WEBSTER, WIS. — Complete address required

5. From well to nearest: Building 100 ft; sewer ---- ft; drain ---- ft; septic tank 200+ ft; dry well or filter bed X ft; abandoned well 35 ft.

6. Well is intended to supply water for: VILLAGE

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
16"	0	45			
10"	45	274			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind	From (ft.)	To (ft.)
	Casing taken out		

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Sand	0	66
fine sand	66	86
Clay & sand	86	134
Red Soapstone clay	134	205
Hard Rock	205	234
Red Clay	234	247
Gravel	247	248
Red Clay	248	258
Decomposed Trap	258	272
Trap rock	272	274

Construction of the well was completed on: Nov 1 19 52

The well ~~is terminated~~ WAS Abandoned inches ☐ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes ---- No ----

Was the well sealed watertight upon completion? Yes ---- No ----

11. MISCELLANEOUS DATA:

Yield test: NONE Hrs. at ---- GPM.

Depth from surface to water-level: 34 ft.

Water-level when pumping: ---- ft.

Water sample was sent to the state laboratory at: SENT BY OWNER City on ---- 19----

Signature Kemp Well Drilling Co Registered Well Driller — 413 No LEXINGTON AVE ST PAUL 4, MINN Complete Mail Address

Please do not write in space below

Rec'd ---- No ----

Ans'd ----

Interpretation ----

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ----

1318

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

See Instructions on Reverse Side

1. County Burnett — Town [X] Village [ ] City [ ] Meenon (Check one and give name)

2. Location [E½ SE NW] Sec 8 - T39 - R16W (Name of street and number of premise or Section, Town and Range numbers)

3. Owner [X] or Agent [ ] ELISE J. CONVERSE (Name of individual, partnership or firm)

4. Mail Address WEBSTER WIS (Complete address required)

5. From well to nearest: Building 4 ft; sewer 75 ft; drain ___ ft; septic tank ___ ft; ___ dry well or filter bed ___ ft; abandoned well ___ ft.

6. Well is intended to supply water for: home

7. DRILLHOLE:

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	1	113			

8. CASING AND LINER PIPE OR CURBING:

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	Steel	1	113

9. GROUT:

Kind	From (ft.)	To (ft.)

10. FORMATIONS:

Kind	From (ft.)	To (ft.)
Sand	1	50
Clay	50	105
Coarse sand	105	113

RECEIVED ... 15 1960 SANITARY ENGINEERING

Construction of the well was completed on: July 23 1960

The well is terminated 10 inches [X] above, below [ ] the permanent ground surface.

Was the well disinfected upon completion? Yes X No ___

Was the well sealed watertight upon completion? Yes X No ___

11. MISCELLANEOUS DATA:

Yield test: Pont Hrs. at 10 GPM.

Depth from surface to water-level: 60 ft.

Water-level when pumping: 20 ft.

Water sample was sent to the state laboratory at: Madison (City) on July 25 1960

Signature Wm Beecroft (Registered Well Driller) — Clam Falls Wis (Complete Mail Address)

Please do not write in space below

Rec'd ___ No. ___

Ans'd ___

Interpretation ___

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ___

1319

3049036

plot

WELL CONSTRUCTOR'S REPORT

Wel–6

DEC 11 1969

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Barnett

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Meenon

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SW SE NW ¼ Sec. 8 T 39 N R 16 W

3. OWNER AT TIME OF DRILLING: Merrill Benson

4. OWNER'S COMPLETE MAIL ADDRESS: Webster, Wis.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
50	55		None		None		None	

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
None		55	None	75	None	None	None	None	None

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
None

6. Well is intended to supply water for: Private residence

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
8	Surface	22			
4	22	54			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	New / Kind and Weight	From (ft.)	To (ft.)
4	Std. Blk Pipe T&C 11#/ft.	Surface	51
4	Johnson #14 slot S.S. well screen	51	54

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay Slurry	Surface	22

10. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	4
sand + blue clay	4	18
sand + red clay	18	46
sand	46	54

Well construction completed on Dec. 1 1969

Well is terminated 14 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 4 Hrs. at 16 GPM

Depth from surface to normal water level 31 ft.

Depth to water level when pumping 40 ft.

Water sample sent to State Lab. of Hygiene-Madison laboratory on: 12/8 1969

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Rodney Dahl Registered Well Driller

COMPLETE MAIL ADDRESS: Rt. 3 Frederic, Wis.

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
1320				

REV. 11–68

STATE OF WISCONSIN

WELL CONSTRUCTOR'S REPORT — DEPARTMENT OF RESOURCE DEVELOPMENT — Wel 6

1. COUNTY: Burnett

CHECK ONE: ☒ Town ☐ Village ☐ City — NAME: Meenon

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)

SW,SE,S½-NW¼, Sec. 8, Twp. 39 N, R. 16 W

3. OWNER AT TIME OF DRILLING: Merrill Benson

4. OWNER'S COMPLETE MAIL ADDRESS: Webster, Wisconsin

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		30 (steel)		55					

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Private

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	295			

8. CASING, LINER, CURBING, AND SCREEN.

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4	11# new steel, Blk. T & C	Surface	231
2	st'd. gal. new steel	216	247
3	stainless steel, no. 18 slot screen	247	253
2	st'd. gal., new steel	253	289
3	stainless steel, no. 18 slot screen	289	295

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
2 inch pipe sealed to 4 inch by lead packer	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
silty sand	Surface	22
hard pan	22	45
sand	45	50
clay	50	225
hard clay or shale	225	245
gravely shale	245	255
shale	255	288
gravely shale	288	295
trap rock	295	---

Well construction completed on September 21 1968

Well is terminated 8 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: continuous, 3 wks. Hrs. at 4 GPM

Depth from surface to normal water level 35 ft.

Depth to water level when pumping 105 ft.

Water sample sent to Madison laboratory on: Sept. 23 19 68

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Wm. K. Beecroft Registered Well Driller

COMPLETE MAIL ADDRESS: Beecroft Bros. Well Drillers, Rt. 2, Box 109, Frederic, Wisconsin

Please do not write in space below 54837

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS
1321				

APPENDIX C

WDNR SOIL BORING LOGS (FORM 4400-122)

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	02-07-282564	GP1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch)	08/10/2016	08/10/2016	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GP1		0	2 in

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

Facility ID	County	County Code	Civil Town/City/or Village
6962	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 in		1–4	**FILL** Miscellaneous FILL **SAND** Impacted silty SAND **CLAY** Grey CLAY	SW CH			927 ppm							
2		48 in		5–8	**SAND** SAND with sheen **CLAY** Grey CLAY, Moist **SAND** Impacted SAND	SW CH			939 ppm 1938 ppm							
3		48 in		9–12	**SAND** Brown fine SAND, Moist	SW			70.6 ppm 6.2 ppm							
4		60 in		13–18					1.9 ppm 30.7 ppm 1.3 ppm							
				19–21	**EOB** EOB @ 20' BLS											

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

SOIL BORING LOG INFORMATION

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	02-07-282564	GP2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch)	08/10/2016	08/11/2016	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GP2		0	2 in

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
6962	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				1–3	**FILL** Miscellaneous FILL	SW			397 ppm						
				3–5	**SAND** SAND	CL									
2		60 in		5–9	**CLAY** CLAY	SW			376 ppm						
				7–9	**SAND** SAND				303 ppm						
3		60 in		9–11	**SAND** SAND, Saturated	CL			0.7 ppm						
				11–13	**CLAY** CLAY										
4		60 in		13–17	**SAND** Fine brown SAND **SAND** Medium grained SAND	SW			84.6 ppm						
				17–19	**SAND** Fine brown SAND				46.7 ppm						
5				19–23											
				23–25	**CLAY** Clay layer	CL			13.7 ppm						
6		60 in		25–27	**SAND** Fine-medium grained brown SAND	SW			192.6 ppm						
				27–29	**SAND** Tighter SAND				10.4 ppm						
7		60 in		29–33	**SAND** Fine-medium SAND										
				33–35	**SAND** Fine grain SAND				120.6 ppm						
				35–37	**SAND** Fine-medium SAND										
				37–40	**EOB** EOB @ 35' BLS										

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

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	02-07-282564	GP3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch)	08/10/2016	08/10/2016	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GP3		0	2 in

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

Facility ID	County	County Code	Civil Town/City/or Village
6962	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				1–5	**FILL** Miscellaneous FILL				0.6 ppm						
				3–5	**CLAY** CLAY layer	CL			0.5 ppm						
2		60 in		5–9	**SAND** Fine grain SAND, Saturated	SW			0.5 ppm						
				9–10	**CLAY** CLAY layer	CL			0.5 ppm						
3				10–15	**SAND** Fine grain SAND	SW			0.0 ppm 0.0 ppm						
				15	**EOB** EOB @ 15' BLS										

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

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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	02-07-282564	GP4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch)	08/10/2016	08/10/2016	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GP4		0	2 in

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
6962	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		60 in		1	**FILL** Miscellaneous FILL										
				2	**CLAY** Mottled CLAY	CL			0.6 ppm						
				3											
				4	**SAND** Fine grain brown SAND	SW			0.5 ppm						
2		60 in		5											
				6	**CLAY** CLAY layer	CL			0.5 ppm						
				7	**SAND** Fine grain brown SAND										
				8											
				9											
3		60 in		10		SW			0.5 ppm						
				11					0.0 ppm						
				12											
				13	**SAND** Medium grained brown SAND										
				14					0.0 ppm						
				15	**EOB** EOB @ 15' BLS										
				16											
				17											
				18											
				19											
				20											

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

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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	02-07-282564	GP5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch)	08/10/2016	08/10/2016	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GP5		0	2 in

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
6962	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		60 in		1–4	**FILL** Miscellaneous FILL **SAND** Impacted grey SAND	SW			1154 ppm						
				4–5	**CLAY** Grey mottled CLAY	CL			398 ppm						
2		60 in		5–10	**SAND** Fine grain brown SAND, moist with odor				1179 ppm 927 ppm						
3		60 in		10–15		SW			216 ppm 176 ppm						
4	SS	60 in		15–20					1.6 ppm						
				20	**EOB** EOB @ 20' BLS				0.9 ppm						

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

SOIL BORING LOG INFORMATION

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	02-07-282564	GP6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch)	08/10/2016	08/10/2016	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		GP6		0	2 in

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

Facility ID	County	County Code	Civil Town/City/or Village
6962	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		60 in		1	**FILL** Miscellaneous FILL										
				2	**SAND** SAND	SW			0.9 ppm						
				3	**CLAY** Grey mottled CLAY	CL			0.4 ppm						
				4											
2		60 in		5	**SAND** SAND	SW			0.5 ppm						
				6	**CLAY** CLAY	CL			0.4 ppm						
				7	**SAND** Fine grain brown SAND, Moist											
				8											
				9					0.6 ppm						
3		60 in		10					0.7 ppm						
				11		SW									
				12											
				13											
				14					0.6 ppm						
				15	**EOB** EOB @ 20' BLS										
				16											
				17											
				18											

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

SOIL BORING LOG INFORMATION

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

Facility/Project Name Burnett Oil	License/Permit/Monitoring Number 02-07-282564	Boring Number MW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch & Joe)	9/14/2016	9/14/2016	hollow stem

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-1		0	2 in

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

Facility ID 6962	County Burnett	County Code 07	Civil Town/City/or Village Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Sample 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		14"	4	1	Topsoil Grassy topsoil				0.4 ppm						
2		18"	3	3	SAND Brown fine sand	SW			0.0 ppm						
3		18"	6	5	CLAY Hard grey clay	CL			101 ppm						
4		18"	18	7	SAND Fine brown sand				16.8 ppm						
5		16"	23	9					10.3 ppm						
6		16"	20	11	SAND Brown/black fine sand				90.6 ppm						
7		14"	15	13	SAND Brown fine/medium sand				0.6 ppm						
8		14"	7	15	SAND Brown coarse sand				44.8 ppm						
9		14"	15	17					1.7 ppm						
10		14"	14	19		SW			0.4 ppm						
11		10"	9	21					0.8 ppm						
12		18"	8	23					0.4 ppm						
13		10"	27	25	SAND Brown coarse sand with gravel				0.4 ppm						
14		12"	15	27					1.1 ppm						
15		12"	10	29					2.3 ppm						
16		12"	7	31					0.4 ppm						
17		14"	15	33					0.8 ppm						
				35	END OF BORING EOB @ 35' BLS										
				37											
				39											

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

SOIL BORING LOG INFORMATION

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	02-07-282564	MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch & Joe)	9/14/2016	9/14/2016	hollow stem

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-3		0	2 in

MW-3

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
6962	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	BLIND DRILL										
				35	END OF BORING EOB @ 35' BLS										

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

SOIL BORING LOG INFORMATION

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

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	02-07-282564	MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch & Joe)	9/14/2016	9/14/2016	hollow stem

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-2		0	2 in

MW-2

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
6962	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	BLIND DRILL										
				35	EOB @ 35' BLS										

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

SOIL BORING LOG INFORMATION

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

Facility/Project Name Burnett Oil	License/Permit/Monitoring Number 02-07-282564	Boring Number MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Gestra Engineering (Mitch & Joe)	9/15/2016	9/15/2016	hollow stem

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-4		0	2 in

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

Facility ID 6962	County Burnett	County Code 07	Civil Town/City/or Village 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		16"	9	1	TOPSOIL Grassy topsoil				1438 ppm						
2		18"	7	3	SAND Grey clayey sand				1485 ppm						
3		18"	20	5	SAND Grey fine sand				1930 ppm						
4		14"	18	7					2110 ppm						
5		18"	21	9					371 ppm						
6		14"	22	11	SAND Medium/fine grey/brown sand				1177 ppm						
7		14"	16	13					113 ppm						
8		12"	14	15	SAND Fine brown sand				33.4 ppm						
9		14"	19	17		SW			7.9 ppm						
10		12"	16	19					22.1 ppm						
11		16"	12	21					4.0 ppm						
12		12"	15	23	SAND Brown gravelly sand				10.0 ppm						
13		14"	15	25	SAND Fine brown sand				3.0 ppm						
14		12"	15	27					15.8 ppm						
15		14"	13	29	SAND Fine/medium brown sand SATURATED @ 30' BLS				24.2 ppm						
16		14"	9	31					21.3 ppm						
17		12"	10	33					130 ppm						
				35	END OF BORING EOB @ 35' BLS										

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

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

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APPENDIX D

WDNR MONITORING WELL CONSTRUCTION FORMS

(FORM 4400-133A)

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Burnett Oil	**Local Grid Location of Well** _____ ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-1
Facility License Permit or Monitoring Number BRRTS# 02-07-282564	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☐ E ___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐ W	**Date Well Installed** 9/14/16
Distance Well Is From Waste/Source Boundary Ft.	**Location of Well Relative to Waste/Source** u ☐ *Upgradient* s ☐ *Sidegradient* d ☐ *Downgradient* n ☐ *Not Known*	**Well Installed By (Person's Name and Firm)** Gestra Engineering (Mitch and Mike)
Is Well A Point of Enforcement Std. Application ☐ Yes ☐ No		

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

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

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

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

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

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

17. Source of water (attach analysis):
_____

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

F. Fine sand, top _____ ft. MSL or 21 ft.

G. Filter pack, top _____ ft. MSL or 23 ft.

H. Screen joint, top _____ ft. MSL or 25 ft.

I. Well bottom _____ ft. MSL or 35 ft.

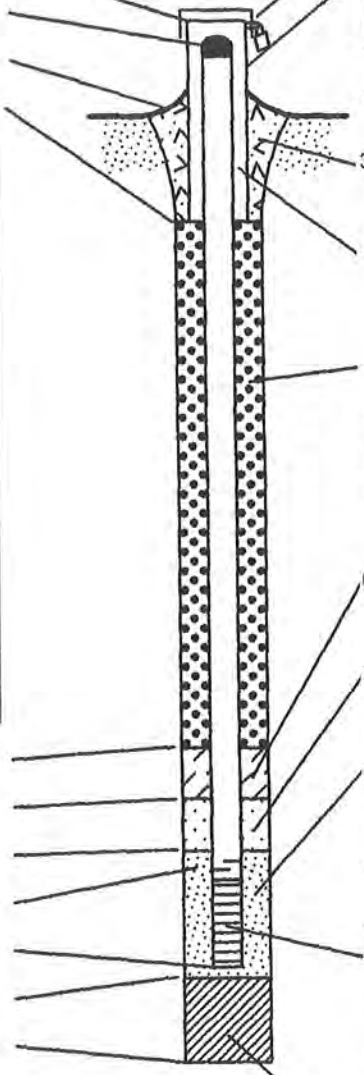
J. Filter pack, bottom _____ ft. MSL or 25 ft.

K. Borehole, bottom _____ ft. MSL or 35 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.32 in.

N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No

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

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

4. Material between well casing and protective pipe:
Bentonite ☒ 30
_____ Annular space seal ☐ Other ☐

5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight .... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ %Bentonite ..... Bentonite-cement grout ☐ 50
e. 2.6 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08

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

7. Fine sand material Manufacturer, product name and mesh size
a. #15
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. #40
b. Volume added _____ ft³

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

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter Pack): None ☒ 14
_____ Other ☐

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

Signature	Firm	
		REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only, see instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Burnett Oil	**Local Grid Location of Well** _____ ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-2
Facility License Permit or Monitoring Number BRRTS# 02-07-282564	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☐ E ___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N; R. ___ ☐ W	**Date Well Installed** 9/14/16
Distance Well Is From Waste/Source Boundary Ft.	**Location of Well Relative to Waste/Source** u ☐ *Upgradient* s ☐ *Sidegradient* d ☐ *Downgradient* n ☐ *Not Known*	**Well Installed By (Person's Name and Firm)** Gestra Engineering (Mitch and Mike)
Is Well A Point of Enforcement Std. Application ☐ Yes ☐ No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom 1 ft. MSL or _____ ft.

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

13. Sieve analysis attached? ☐ Yes ☒ No

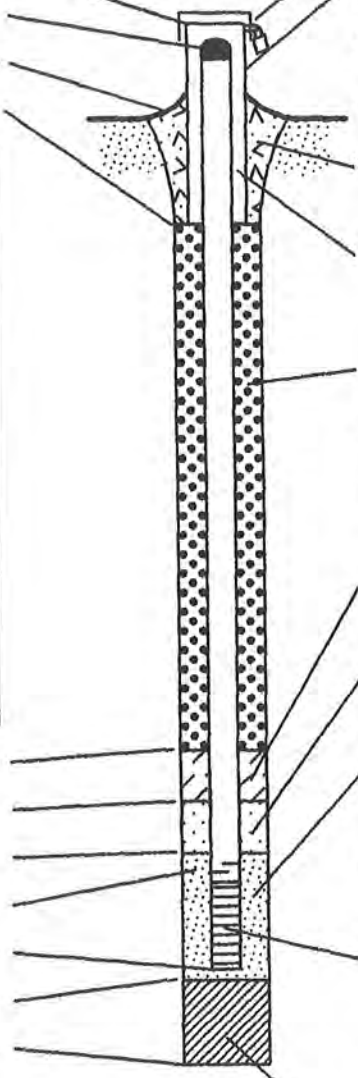
14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

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

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

17. Source of water (attach analysis):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 21 ft.
G. Filter pack, top _____ ft. MSL or 23 ft.
H. Screen joint, top _____ ft. MSL or 25 ft.
I. Well bottom _____ ft. MSL or 35 ft.
J. Filter pack, bottom _____ ft. MSL or 25 ft.
K. Borehole, bottom _____ ft. MSL or 35 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.32 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 4 ft.
c. Material: Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30 Annular space seal ☐ Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. ___ Lbs/gal mud weight .... Bentonite-sand slurry ☐ 35
c. ___ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ___ %Bentonite ..... Bentonite-cement grout ☐ 50
e. 2.6 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40
b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
_____ Other ☐

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

Signature	Firm
	REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to tile this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	Local Grid Location of Well	Well Name
Burnett Oil	___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	MW-3
Facility License Permit or Monitoring Number	**Grid Origin Location**	**Wis. Unique Well Number** / **DNR Well Number**
BRRTS# 02-07-282564		
Type of Well Water Table Observation Well ☒ 11		**Date Well Installed**
Piezometer ☐ 12	**Section Location of Waste/Source** ☐ E	9/14/16
Distance Well Is From Waste/Source Boundary Ft.	___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N; R. ___ ☐ W	**Well Installed By (Person's Name and Firm)** Gestra Engineering (Mitch and Mike)
Is Well A Point of Enforcement Std. Application ☐ Yes ☐ No	**Location of Well Relative to Waste/Source** u ☐ *Upgradient* s ☐ *Sidegradient* d ☐ *Downgradient* n ☐ *Not Known*	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom 1 ft. MSL or _____ ft.

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

13. Sieve analysis attached? ☐ Yes ☒ No

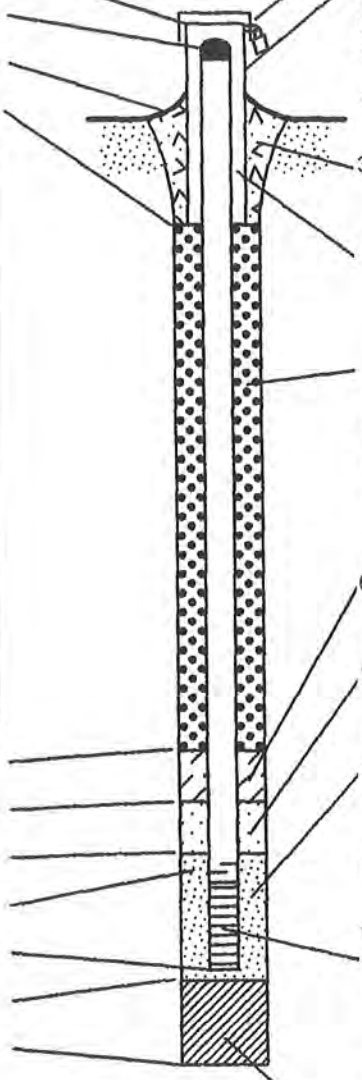
14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

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

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

17. Source of water (attach analysis):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 21 ft.
G. Filter pack, top _____ ft. MSL or 23 ft.
H. Screen joint, top _____ ft. MSL or 25 ft.
I. Well bottom _____ ft. MSL or 35 ft.
J. Filter pack, bottom _____ ft. MSL or 25 ft.
K. Borehole, bottom _____ ft. MSL or 35 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.32 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 4 ft.
c. Material: _____ Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 Concrete ☐ 01 _____ Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30 Annular space seal ☐ _____ Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight .... Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. _____ %Bentonite ..... Bentonite-cement grout ☐ 50
e. 2.6 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40
b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 _____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14 _____ Other ☐

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

Signature	Firm
	REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to tile this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4.90

Route To Solid Haste ☐ Haz. Haste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

Facility/Project Name Burnett Oil	**Local Grid Location of Well** _____ ___ Feet S. ___ Feet W ___ Feet N. ___ Feet E	**Well Name** MW-4
Facility License Permit or Monitoring Number BRRTS# 02-07-282564	**Grid Origin Location**	**Wis. Unique Well Number** **DNR Well Number**
Type of Well Water Table Observation Well ☒ 11 Piezometer ☐ 12	**Section Location of Waste/Source** ☐ E	**Date Well Installed** 9/15/16
Distance Well Is From Waste/Source Boundary Ft.	___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N; R. ___ ☐ W	**Well Installed By (Person's Name and Firm)** Gestra Engineering (Mitch and Mike)
Is Well A Point of Enforcement Std. Application ☐ Yes ☐ No	**Location of Well Relative to Waste/Source** u ☐ *Upgradient* s ☐ *Sidegradient* d ☐ *Downgradient* n ☐ *Not Known*	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom 1 ft. MSL or _____ ft.

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

13. Sieve analysis attached? ☐ Yes ☒ No

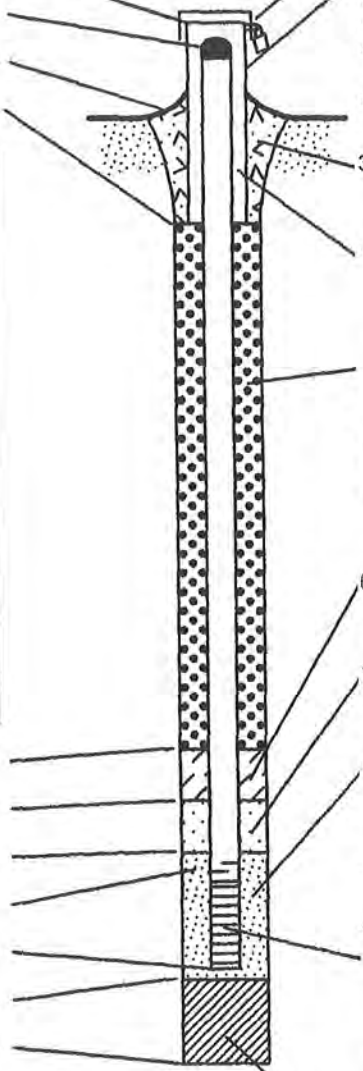
14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

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

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

17. Source of water (attach analysis):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 21 ft.
G. Filter pack, top _____ ft. MSL or 23 ft.
H. Screen joint, top _____ ft. MSL or 25 ft.
I. Well bottom _____ ft. MSL or 35 ft.
J. Filter pack, bottom _____ ft. MSL or 25 ft.
K. Borehole, bottom _____ ft. MSL or 35 ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.32 in.
N. I.D. well casing 2.07 in.



1. Cap and lock? ☐ Yes ☒ No
2. Protective cover pipe:
a. Inside diameter: 9 in.
b. Length: 1 ft.
c. Material: _____ Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐
4. Material between well casing and protective pipe:
Bentonite ☒ 30 Annular space seal ☐ Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. ___ Lbs/gal mud weight .... Bentonite-sand slurry ☐ 35
c. ___ Lbs/gal mud weight ..... Bentonite slurry ☐ 31
d. ___ %Bentonite ..... Bentonite-cement grout ☐ 50
e. 2.6 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40
b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer Johnson Screen
c. Slot size: 0.10 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
_____ Other ☐

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

Signature	Firm	
		REI Engineering, Inc. 4080 N. 20th Ave. Wausau, WI 5440'

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144,147 and 160 Wis. Stats. and ch NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

APPENDIX E

WDNR MONITORING WELL DEVELOPMENT FORMS

(FORM 4400-133A)

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW1	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 33.63 ft.	33.61 ft.
Data mm/dd/yy	b. 9/20/16	9/20/16
Time	c. 2:15 ☒ p.m. ☐ a.m.	4:40 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 inches	0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)
		Clear at 15 gallons

3. Time spent developing well	145 min.	
4. Depth of well (from top of Casing)	38.15 ft.	
5. Inside diameter of well	2.07 in.	
6. Volume of water in filter pack and well casing	4.3 gal.	
7. Volume of water removed from well	75 gal.	
8. Volume of water added (If any)	0 gal.	
9. Source of water added	_____	
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No	

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above information is true and correct to the best of my knowledge

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW2	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 32.46 *ft.*	32.44 *ft.*
Data *mm/dd/yy*	b. 9/20/16	9/20/16
Time	c. 1:57 ☒ p.m. ☐ a.m.	3:35 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)
		Clear at 15 gallons

3. Time spent developing well	92 *min.*	
4. Depth of well (from top of Casing)	37.28 *ft.*	
5. Inside diameter of well	2.07 *in.*	
6. Volume of water in filter pack and well casing	4.57 *gal.*	
7. Volume of water removed from well	75 *gal.*	
8. Volume of water added (If any)	0 *gal.*	

9. Source of water added _____

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

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DWL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW3	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 32.20 *ft.*	32.28 *ft.*
Data *mm/dd/yy*	b. 9/20/16	9/20/16
Time	c. 2:06 ☒ p.m. ☐ a.m.	4:22 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 10 Turbid ☐ 15
(Describe)		Clear at 15 gallons

3. Time spent developing well	138 *min.*	
4. Depth of well (from top of Casing)	36.97 *ft.*	
5. Inside diameter of well	2.07 *in.*	
6. Volume of water in filter pack and well casing	4.53 *gal.*	
7. Volume of water removed from well	75 *gal.*	
8. Volume of water added (If any)	0 *gal.*	
9. Source of water added		
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No	

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

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

Signature: [signature]

Print Initials: D NL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW4	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 29.11 *ft.*	29.31 *ft.*
Data *mm/dd/yy*	b. 9/20/16	9/20/16
Time	c. 1:44 ☒ p.m. ☐ a.m.	3:25 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 10 Turbid ☐ 15
(Describe)		Clear at 15 gallons

3. Time spent developing well	101 *min*	
4. Depth of well (from top of Casing)	34.24 *ft*	
5. Inside diameter of well	2.07 *in.*	
6. Volume of water in filter pack and well casing	4.87 *gal.*	
7. Volume of water removed from well	90 *gal.*	
8. Volume of water added (If any)	0 *gal.*	
9. Source of water added	_____	
10. Analysis performed on water added? (If yes. attach results)	☐ Yes ☐ No	

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DWL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW91-1	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

		Before Development	After Development
11. Depth to Water (from top of well casing	a.	31.90 ft.	32.08 ft.
Data *mm/dd/yy*	b.	9/14/16	9/14/16
Time	c.	11:50 ☐ p.m. ☒ a.m.	1:05 ☒ p.m. ☐ a.m.
12. Sediment in well bottom		6 *inches*	0 *inches*
13. Water clarity		Clear ☐ 10 Turbid ☒ 15	Clear ☒ 10 Turbid ☐ 15
(Describe)			Clear at 10 gallons

3. Time spent developing well	75	*min.*
4. Depth of well (from top of Casing)	42.5	*ft.*
5. Inside diameter of well	2.07	*in.*
6. Volume of water in filter pack and well casing	10	*gal.*
7. Volume of water removed from well	65	*gal.*
8. Volume of water added (If any)	0	*gal.*

9. Source of water added _____

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

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

	Before Development	After Development
14. Total suspended solids	*mg/l*	*mg/l*
15. COD	*mg/l*	*mg/l*

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW91-2A	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

	Before Development	After Development
11. Depth to Water (from top of well casing	a. 32.84 *ft.*	32.91 *ft.*
Data *mm/dd/yy*	b. 9/14/16	9/14/16
Time	c. 1:56 ☒ p.m. ☐ a.m.	3:50 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe)
		Clear at 15 gallons

3. Time spent developing well	115 *min.*	
4. Depth of well (from top of Casing)	42 26 *ft.*	
5. Inside diameter of well	2.07 *in.*	
6. Volume of water in filter pack and well casing	10 *gal.*	
7. Volume of water removed from well	75 *gal.*	
8. Volume of water added (If any)	0 *gal.*	
9. Source of water added	_____	
10. Analysis performed on water added? (If yes, attach results)	☐ Yes ☐ No	

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

State of Wisconsin
Department of Natural Resources

Route To: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐ _____

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4.90

Facility/Project Name	County Name	Well Name	
Burnett Oil	Polk	MW91-2B	
Facility Licence, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
	48		

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

2. Well development method

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

	Before Development	After Development
3. Time spent developing well	118 *min*	
4. Depth of well (from top of Casing)	71.14 *ft*	
5. Inside diameter of well	2.07 *in.*	
6. Volume of water in filter pack and well casing	9.4 *gal.*	
7. Volume of water removed from well	85 *gal.*	
8. Volume of water added (If any)	0 *gal.*	
9. Source of water added		
10. Analysis performed on water added? (If yes. attach results) ☐ Yes ☐ No		
11. Depth to Water (from top of well casing) a.	32.25 *ft*	33.17 *ft*
Data *mm/dd/yy* b.	9/14/16	9/14/16
Time c.	2:04 ☒ p.m. ☐ a.m.	4:00 ☒ p.m. ☐ a.m.
12. Sediment in well bottom	6 *inches*	0 *inches*
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 10 Turbid ☐ 15 (Describe) Clear at 15 gallons

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: David Larsen (REI)

Firm: REI Engineering, Inc.
4020 N 20th Ave.
Wausau, WI 54401

I hereby certify that the above Information is true and correct to the best of my knowledge.

Signature: [signature]

Print Initials: DNL

Firm: REI Engineering, Inc.

NOTE: Shaded areas are for DNR use only. See instructions for more Information Including a list of county codes.

APPENDIX F

WDNR BOREHOLE ABANDONMENT FORMS

(FORM 3300-5)

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Burnett	GP1	

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Wester	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP1

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett CO
Present Well Owner: Burnett CO
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/10/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Geoprobe

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20'	2"

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

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite Chips	Surface	20'	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		08/10/2016

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		8/24/16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Burnett	GP2	

Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Wester	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP2

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett CO
Present Well Owner: Burnett CO
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/10/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Geoprobe

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
35'	2"

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

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite Chips	Surface	35'	1 & 2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		08/11/2016

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		8/24/16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Burnett	GP3	

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Wester	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP3

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett CO
Present Well Owner: Burnett CO
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/10/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Geoprobe

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15'	2"

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

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite Chips	Surface	15'	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		08/10/2016

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		8/24/16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Burnett	GP4	

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Wester	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP4

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett CO
Present Well Owner: Burnett CO
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/10/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☑ Other (specify): Geoprobe

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15'	2"

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

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite Chips	Surface	15'	2/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		08/10/2016

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		8/24/16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Burnett	GP5	

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP5

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett Co
Present Well Owner: Burnett Co
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/10/2016

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☑ Other (specify): Geoprobe

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20'	2"

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

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite Chips	Surface	20'	1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		08/10/2016

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		8/24/16

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Burnett	GP6	

Latitude / Longitude (see instructions): ____ N ____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP6

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett County
Present Well Owner: Burnett County
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/10/2016

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☑ Other (specify): Geoprobe

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
20'	2"

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

Was well annular space grouted? ☐ Yes ☑ No ☐ Unknown

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

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

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

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

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

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

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite Chips	Surface	20'	1 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		08/10/2016

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401		8/24/16

DNR Use Only

Date Received	Noted By

Comments:

APPENDIX G

SELECT SECTIONS FROM PREVIOUS REPORTS

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: VILLAGE OF WEBSTER - WATER SUPPLY

Facility License, Permit or Monitoring Number: _____

Type of Well: Water Table Observation Well ☒ 11 Piezometer ☐ 12

Distance Well Is From Waste/Source Boundary: _____ ft.

Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No

Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.

WELL LOCATION

Lat. _____ Long. _____ or

St. Plane 268547.297 ft. N. 1316684.11 ft. E.

Section Location of Waste/Source

___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N. R. ___ ☐ E. ☐ W.

Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known

Well Name: MW-91-1

Wis. Unique Well Number: DL-001 DNR Well Number: _____

Date Well Installed: 06/19/91 (m m / d d / y y)

Well Installed By: (Person's Name and Firm)
Jamie Tuura
GME Consultants, Inc.

A. Protective pipe, top elevation 983.42 ft. MSL

B. Well casing, top elevation 983.22 ft. MSL

C. Land surface elevation 980.2 ft. MSL

D. Surface seal, bottom _____ ft. MSL or 27.5 ft.

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

13. Sieve analysis attached? ☒ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☒ 41 Other ☐ __

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

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):
WEBSTER CITY GARAGE or County Fairgrounds

E. Bentonite seal, top 25.5 ft. MSL or _____ ft.

F. Fine sand, top 27.5 ft. MSL or _____ ft.

G. Filter pack, top 27.5 ft. MSL or _____ ft.

H. Screen joint, top 30.0 ft. MSL or _____ ft.

I. Well bottom 40.0 ft. MSL or _____ ft.

J. Filter pack, bottom 42.0 ft. MSL or _____ ft.

K. Borehole, bottom 42.0 ft. MSL or _____ ft.

L. Borehole, diameter 8.0 in.

M. O.D. well casing 2.39 in.

N. I.D. well casing 2.09 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 4.0 ft.
c. Material: Steel ☒ 04 Other ☐ __
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 3- 4"x7' STEEL GUARD POSTS

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

4. Material between well casing and protective pipe: Bentonite ☐ 30 Annular space seal ☐ __ CONCRETE Other ☒ __

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

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

7. Fine sand material: Manufacturer, product name & mesh size
a. None Used
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name and mesh siz
a. RED FLINT SAND 45-55
b. Volume added 5 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23 Flush threaded PVC schedule 80 ☒ 24 Other ☐ __

10. Screen material: [redacted] Schedule 80 PVC
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ __
b. Manufacturer Johnson
c. Slot size: 0.010 in
d. Slotted length: 10.0 ft

11. Backfill material (below filter pack): None ☒ 14 Other ☐ __

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

Signature: [signature] Firm: GME CONSULTANTS INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $10,000 for each

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-9(

Facility/Project Name: VILLAGE OF WEBSTER - WATER SUPPLY	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-91-2A
Facility License, Permit or Monitoring Number: _____	WELL LOCATION Lat. ____ Long. ____ or	Wis. Unique Well Number: DL-007 DNR Well Number: ____
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	St. Plane 268538.63 ft. N, 1396897.47 ft. E.	Date Well Installed: 06/20/91 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Section Location of Waste/Source: ___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E. ☐W.	Well Installed By: (Person's Name and Firm) JAMIE TUURA; GME Consultants, Inc.
Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation 983.79 ft. MSL
B. Well casing, top elevation 983.69 ft. MSL
C. Land surface elevation 980.7 ft. MSL
D. Surface seal, bottom ____ ft. MSL or 27.0 ft.

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

13. Sieve analysis attached? ☒ Yes ☐ No

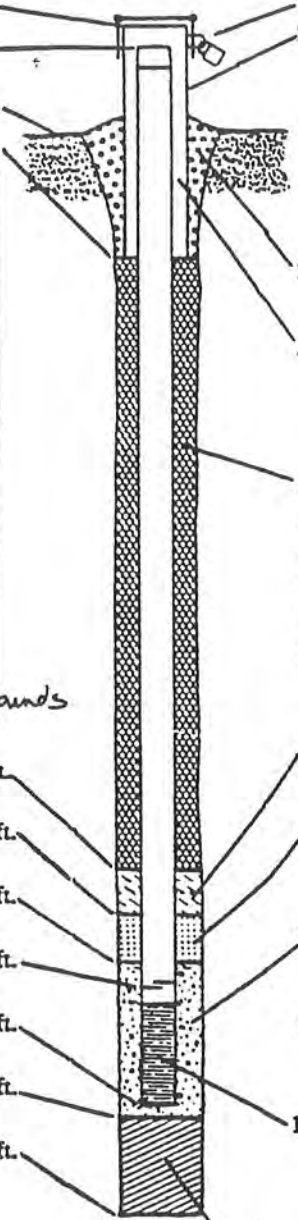
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ __ _____

15. Drilling fluid used: Water ☐ 02; Air ☐ 01; Drilling Mud ☐ 03; None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):
WEBSTER CITY GARAGE or County Fairgrounds

E. Bentonite seal, top 24.0 ft. MSL or ____ ft.
F. Fine sand, top 27.0 ft. MSL or ____ ft.
G. Filter pack, top 27.0 ft. MSL or ____ ft.
H. Screen joint, top 29.5 ft. MSL or ____ ft.
I. Well bottom 39.5 ft. MSL or ____ ft.
J. Filter pack, bottom 40.0 ft. MSL or ____ ft.
K. Borehole, bottom 40.0 ft. MSL or ____ ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.39 in.
N. I.D. well casing 2.09 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 4.0 ft.
c. Material: Steel ☒ 04; Other ☐ __ _____
d. Additional protection? ☒ Yes ☐ No
If yes, describe: 3 - 4" STEEL GUARD POSTS
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ __ _____
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ __; Other ☒ __ Concrete
5. Annular space seal: a. Granular Bentonite ☐ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☒ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01; Tremie pumped ☐ 02; Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite pellets ☐ 32
c. _____ Other ☐ __ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. None Used
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh siz
a. REO Flint Sand 45-55
b. Volume added 5 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23; Flush threaded PVC schedule 80 ☒ 24; Other ☐ __ _____
10. Screen material: Schedule 80 PVC
a. Screen type: Factory cut ☒ 11; Continuous slot ☐ 01; Other ☐ __ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in
d. Slotted length: 10.0 ft
11. Backfill material (below filter pack): None ☒ 14; Other ☐ __ _____

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

Signature _____ PE | Firm GME CONSULTANTS, INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: VILLAGE OF WEBSTER - WATER SUPPLY

Facility License, Permit or Monitoring Number: _____

Type of Well: Water Table Observation Well ☐ 11 / Piezometer ☒ 12

Distance Well Is From Waste/Source Boundary: _____ ft.

Is Well A Point of Enforcement Std. Application? ☒ Yes ☐ No

Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W

~~Grid Origin~~ WELL LOCATION

Lat. _____ Long. _____ or

St. Plane 268539.35 ft. N, 1396893.28 ft. E.

Section Location of Waste/Source: ___1/4 of ___ 1/4 of Sec. ___, T. ___ N, R. ___ ☐E ☐W.

Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known

Well Name: MW-91-2B

Wis. Unique Well Number: DL-003 DNR Well Number: _____

Date Well Installed: 07/12/91 (m m / d d / y y)

Well Installed By: (Person's Name and Firm)
JAMIE TUURA
GME Consultants, Inc.

A. Protective pipe, top elevation 984.48 ft. MSL
B. Well casing, top elevation 984.28 ft. MSL
C. Land surface elevation 982.0 ft. MSL
D. Surface seal, bottom _____ ft. MSL or 59.0 ft.

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

13. Sieve analysis attached? ☒ Yes ☐ No

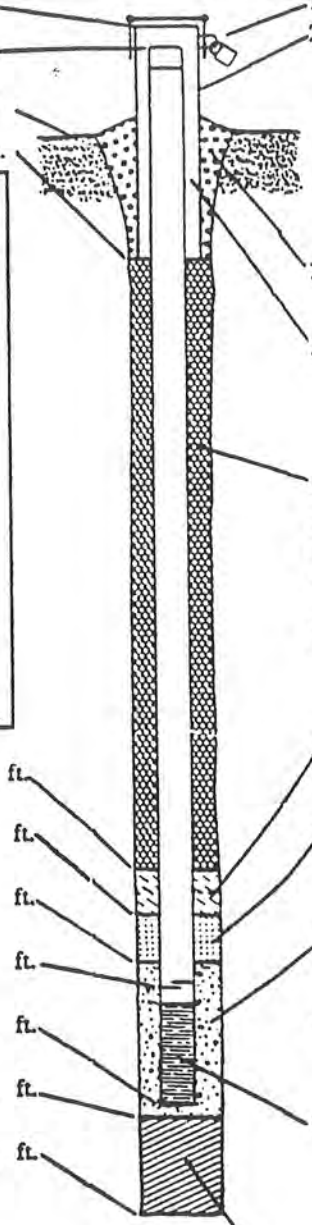
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ __

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

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):
WEBSTER City GARAGE or County Fairgrounds

E. Bentonite seal, top 49.0 ft. MSL or _____ ft.
F. Fine sand, top 59.0 ft. MSL or _____ ft.
G. Filter pack, top 59.0 ft. MSL or _____ ft.
H. Screen joint, top 69.0 ft. MSL or _____ ft.
I. Well bottom 69.0 ft. MSL or _____ ft.
J. Filter pack, bottom 71.0 ft. MSL or _____ ft.
K. Borehole, bottom 71.0 ft. MSL or _____ ft.
L. Borehole, diameter 8.0 in.
M. O.D. well casing 2.39 in.
N. I.D. well casing 2.09 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4.0 in.
b. Length: 4.0 ft.
c. Material: Steel ☒ 04 / Other ☐ __
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ __
4. Material between well casing and protective pipe: Bentonite ☐ 30 / Annular space seal ☐ __ / Concrete / Other ☒ __
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☒ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☒ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite pellets ☐ 32
c. _____ Other ☐ __
7. Fine sand material: Manufacturer, product name & mesh size
a. None Used
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name and mesh size
a. Red Flint Sand - 45-55
b. Volume added 5 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☐ 23 / Flush threaded PVC schedule 80 ☒ 24 / Other ☐ __
10. Screen material: Schedule 80 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ __
b. Manufacturer Johnson
c. Slot size: 0.01 in.
d. Slotted length: 5.0 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ __

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

Signature: _____ Firm: GME CONSULTANTS INC.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch.144, Wis Stats., failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than $10,000 for each

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT
Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
WEBSTER	BURNETT	91-2B
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	07	DL-0003 / ____

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

2. Well development method

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

3. Time spent developing well 62 min.

4. Depth of well (from top of well casisng) 71.8 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 10.7 gal.

7. Volume of water removed from well 60.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 36.33 ft.	36.31 ft.
Date	b. 09/05/91 (m m d d y y)	09/05/91 (m m d d y y)
Time	c. 11:57 ☒ a.m. ☐ p.m.	1:40 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.5 inches	0.2 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	CLEAR WATER BUT 0.5-1.0 INCHES OF SAND CONSISTENTLY ON BOTTOM OF BAILER	CLEAR - LITTLE OR NO SAND OBSERVED

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: GEORGE J. HUDAK

Firm: RREM, INC

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

Signature: _____ DO

Print Initials: GJH

Firm: GME CONSULTANTS, INC

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name	
WEBSTER	BURNETT	91-2A	
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well Number**
_____	07	DL-002	____

	Before Development	After Development
1. Can this well be purged dry?	☐ Yes ☒ No	
11. Depth to Water (from top of well casing)	a. 36.94 ft.	36.93 ft.
Date	b. 09/05/91 (m m d d y y)	09/05/91 (m m d d y y)
Time	c. 10:27 ☒ a.m. ☐ p.m.	11:45 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.2 inches	0.1 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	CLEAR W/ MINOR FINE GRAINED SAND	CLEAR - SEDIMENT FREE AFTER 2 MINUTES OF PUMPING

2. Well development method

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

3. Time spent developing well 45 min.

4. Depth of well (from top of well casing) 42.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 6.3 gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

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

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

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

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: GEORGE J. HUDAK

Firm: KREM, INC.

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

Signature: _____ PE

Print Initials: WCK

Firm: GME CONSULTANTS, INC

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 4-90

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☒ Underground Tanks ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
WEBSTER	BURNETT	MW-91-1
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **DNR Well Number**
_____	07	_____ / _____

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

2. Well development method

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

3. Time spent developing well 45 min.

4. Depth of well (from top of well casisng) 43.0 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 6.5 gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0.0 gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 36.02 ft.	36.03 ft.
Date	b. 09/05/91 (m m d d y y)	09/05/91 (m m d d y y)
Time	c. 7:50 ☒ a.m. ☐ p.m.	9:20 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.4 inches	0.1 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)	LIGHT BROWN DUE TO SUSPENDED FINE TO VERY FINE SILT	CLEAR WATER AFTER 3 MINUTES OF PUMPING
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	_____.__ mg/l	_____.__ mg/l
15. COD	_____.__ mg/l	_____.__ mg/l

16. Additional comments on development:

Well developed by: Person's Name and Firm

Name: GEORGE J. HUDAK

Firm: RREM, INC.

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

Signature: _____, PE

Print Initials: WCK

Firm: GME CONSULTANTS, INC.

NOTE: Shaded areas are for DNR use only. See instructions for more information including a list of county codes.

Table 5
Water Table Elevations
Village of Webster, Wisconsin

(Wells Installed During RREM, Inc., Investigation)

RREM Well No.	Wisconsin Unique Well No.	Top of Riser Elevation	Date of Elevation Measurement (measured in feet)					
			7/24/91	8/7/91	8/26/91	9/10/91	10/16/91	10/28/91
91-1	DL-001	983.22	946.70	947.00	947.20	947.23	947.39	947.40
91-2A	DL-002	984.28	946.97	947.25	947.37	947.44	947.56	947.56
91-2B	DL-003	983.69	946.69	947.21	947.37	947.42	947.55	947.56
91-3	DL-004	982.27	946.77	947.25	947.35	947.43	947.52	947.63
91-4	DL-005	980.13	947.18	947.43	947.60	947.66	947.78	947.78
91-5A	DL-006	980.49	947.52	947.63	947.76	947.82	947.93	947.94
91-5B	DL-007	980.48	947.53	947.62	947.75	947.81	947.93	947.93
91-6	DL-008	982.01	947.85	947.94	948.04	948.09	948.20	948.24
91-7	DL-571	980.99	—(1)	947.89	947.96	948.05	948.08	948.24
91-8	DL-572	980.50	—	948.34	948.17	948.30	948.40	948.46

APPENDIX H

INVESTIGATIVE WASTE DISPOSAL

LINCOLN COUNTY LANDFILL 715-536-9636
Site: N4750 Landfill Lane, Merrill, WI 54452
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452
OPERATING HOURS:
Monday-Friday
SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm
WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm
1st and 3rd Sat. 8:00 am - Noon

DATE: 9/28/2016
Time In: 02:30 PM

TICKET #: 220048
Time Out: 02:39 PM

Vehicle #:

BILL TO: R.E.I.
HAULER : R.E.I.

JOB : 16 - 57 B - REI #6962 Burnett Oil, Webster
PO# : REI job #6962

$23.00 ton exempt (CON31) 2.04 tn
Gross: 15600 Tare: 11520 Net Weight: 4080

Scale Notes: Charge Transaction

HAVE A NICE DAY!

Customer Signature _____
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

LINCOLN COUNTY LANDFILL 715-536-9636
Site: N4750 Landfill Lane, Merrill, WI 54452
Mailing: 801 N Sales St, Ste 201, Merrill, WI 54452
OPERATING HOURS:
Monday-Friday
SUMMER (May 1 - Sept. 30) 7:00 am - 4:00 pm
WINTER (Oct. 1 - Apr. 30) 8:00 am - 4:00 pm
1st and 3rd Sat. 8:00 am - Noon

DATE: 8/25/2016 TICKET #: 218459 Vehicle #:
Time In: 12:13 PM Time Out: 12:13 PM

BILL TO: R.E.I.
HAULER : R.E.I.

JOB : 16 - 57 B - REI #6962 Burnett Oil, Webster
PO# : REI job #6962

PEFCA DRUMS (PECFA) 1 un
Gross: 1 Tare: 0 Net Weight: 1

Scale Notes: Charge Transaction

HAVE A NICE DAY!

Customer Signature _____
Weighed By: Administrator

I certify that the waste in this vehicle complies with the Wisconsin Recycling law and the landfill bans. I also agree to pay 1.5% per month Late payment charge after 30 days.

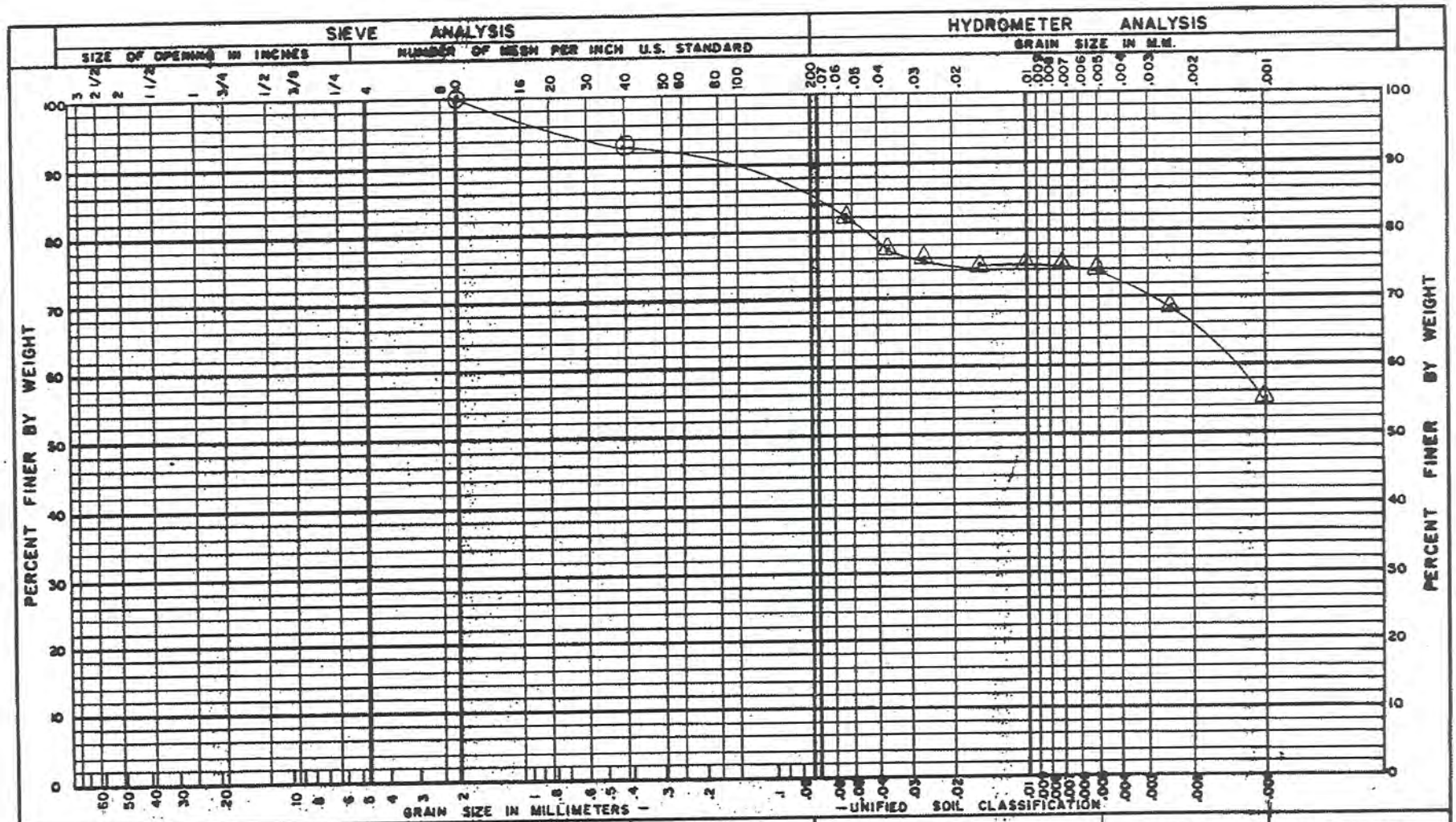
APPENDIX I

GRAIN SIZE ANALYSIS

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

PROJECT: WEBSTER, DNR JOB NO. 6525.98 DATE AUG. 21, 1986

BORING NO.	SAMPLE NO.	DEPTH	FIELD CLASS	GRADATION - % PASSING									LL	PI	USCS	Wn %	e	γd P.C.F.	GS	k - (CM/S)
				.005	.02	.05	.074	#40	#10	#4	3/4"	1 1/2"								
DW-2	S-1	5.0-5.5		74	74.5	81	85	93.3	100				63.9	42.4	CH				2.70	
DW-4	S-Ø	2.5-4.0		50	53	56	59	92.1	100				37.3	20.8	CL				2.68	
DW-5	S-1	5.0-6.5	SP-SM				9.2	88.9	100						SP-SM					
DW-5	S-9	45.0-46.5	SP				2.7	82.1	99.7	100					SP					
DW-7	S-Ø	2.5-4.0		59	62	64	67	96.3	100				52.4	35.3	CH				2.70	
DW-7	S-3	15.0-16.5	SP				2.1	74.2	100						SP					
DW-9	S-4	20.0-21.5	SP				2.9	39.1	91.7	96.3	100	3/8"			SP					
DW-9	S-7	35.0-36.5	SP				0.8	27.6	84.3	94.5	100				SP					



BORING NO. OW-2	GRAVEL —	F SAND 8%	D_{60}	C_U	
SAMPLE NO. S-1	C. SAND —	SILT 11.0%	D_{30}	C_Z	
DEPTH 5.0'-5.5'	M. SAND 7.0%	CLAY 19.0%	D_{10}	UNIFIED CLASS CH	
ELEV.		Colloids 55%			

AMES ASSOCIATES Engineers / Architects / Planners / Surveyors

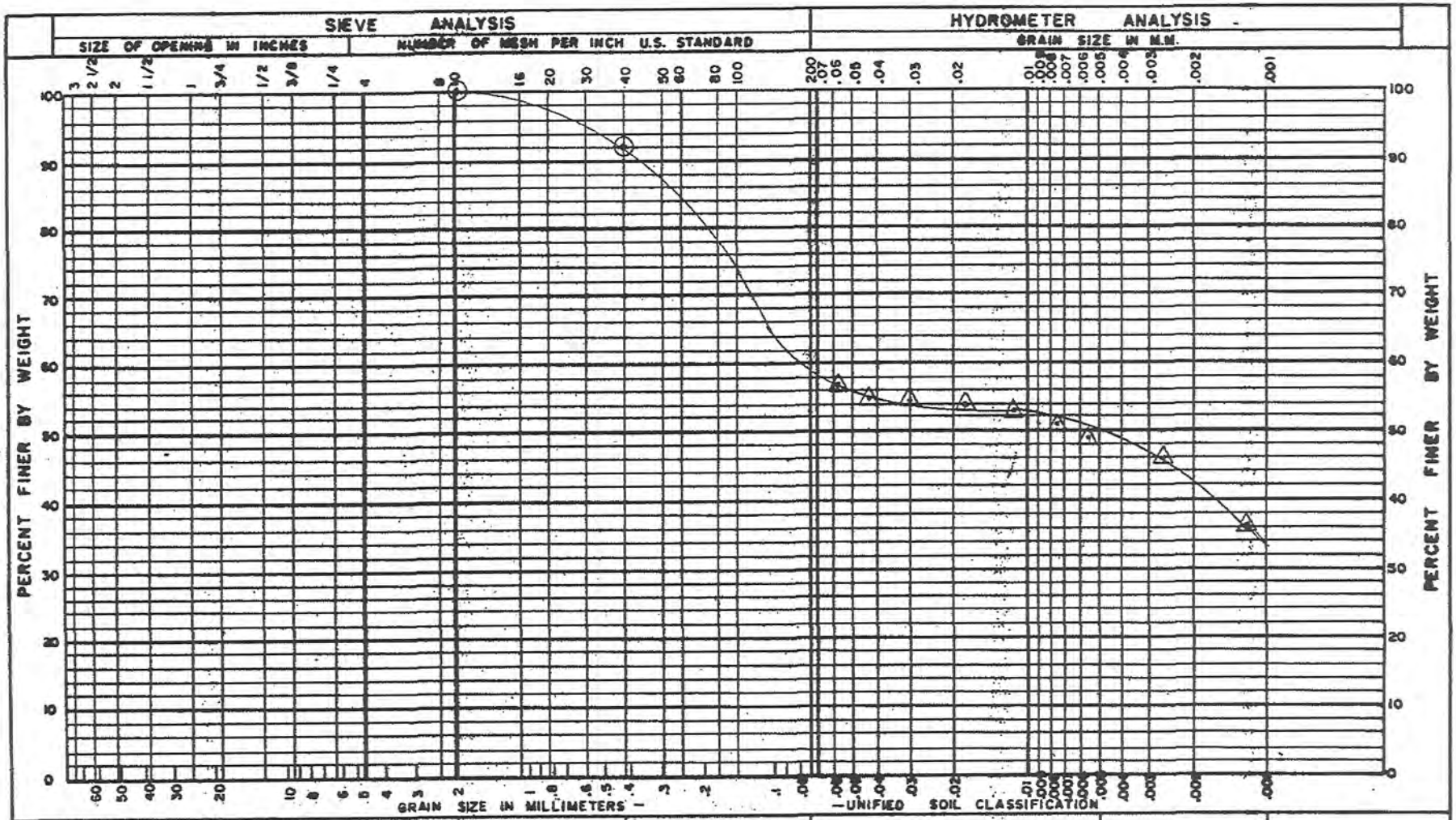
⊙ MECHANICAL
△ HYDROMETER

PROJECT: WEBSTER - DNR

REMARKS:

DATE:

JOB NO: 6525.98



BORING NO. OW-4
SAMPLE NO. S-Ø
DEPTH 2.5-4.0
ELEV.

GRAVEL
C. SAND
M. SAND 8%

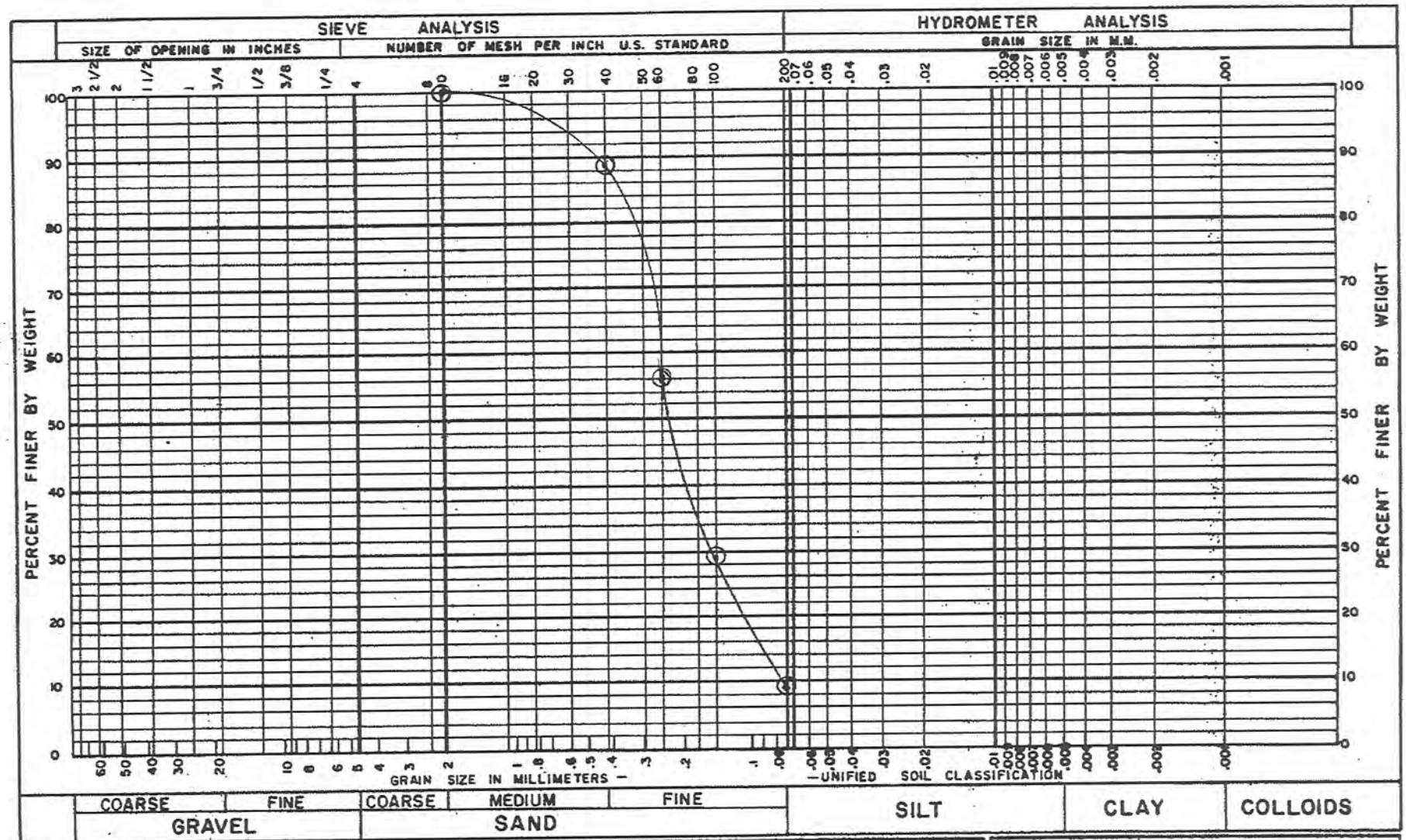
F SAND 33%
SILT 9%
CLAY 17%
Colloids - 33%

D_{60}
D_{30}
D_{10}
C_U
C_Z
UNIFIED CLASS CL

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL
△ HYDROMETER

PROJECT: WEBSTER - DNR
REMARKS: AUGER WASH SAMPLE
DATE:
JOB NO: 6525.98



BORING NO. OW-5
SAMPLE NO. S-1
DEPTH 5.0' - 6.5'
ELEV.

GRAVEL
C. SAND
M. SAND 11.0

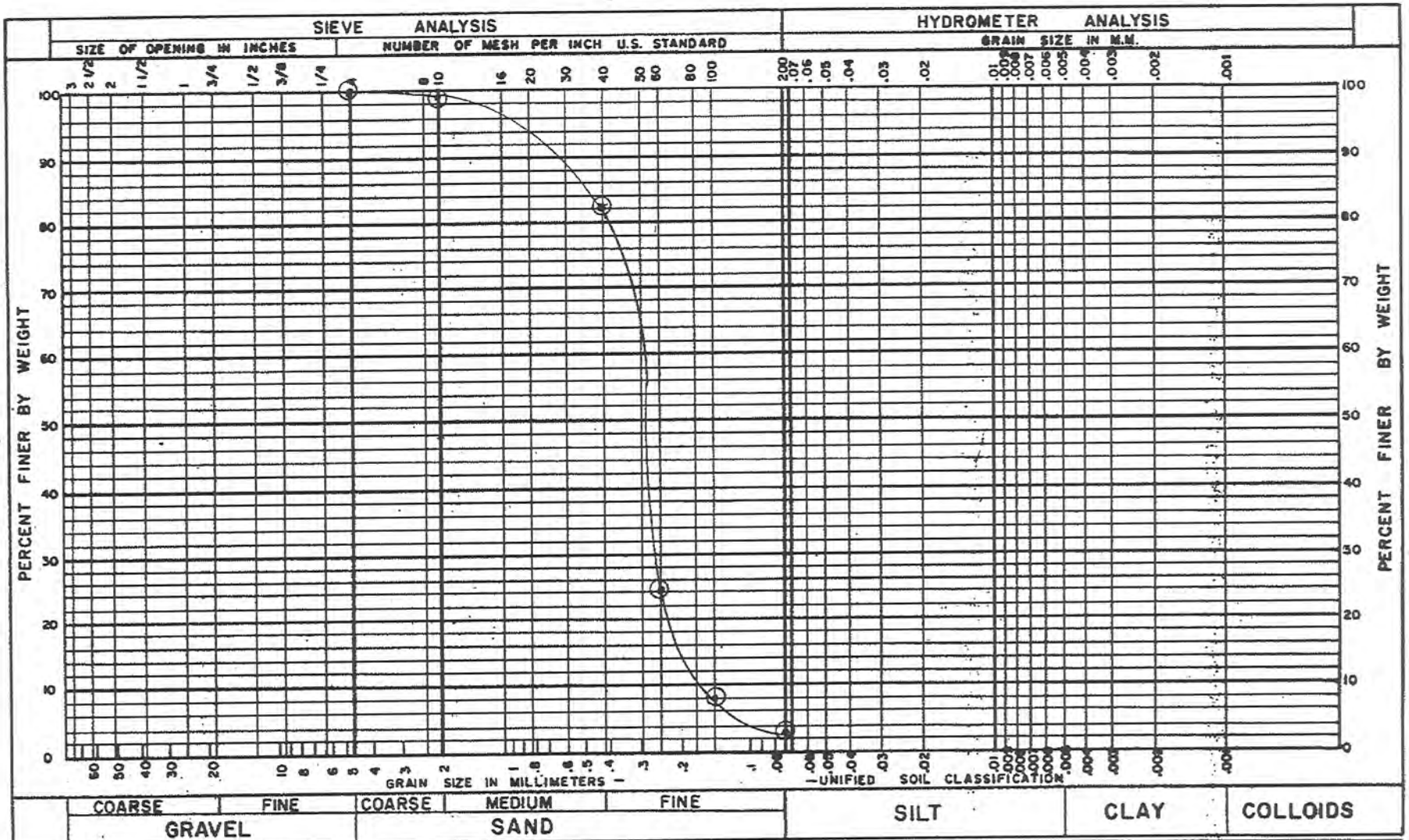
F. SAND 80.0
SILT } 9.0
CLAY }

D_{60} 0.25 C_U 3.1
D_{30} 0.16 C_Z 1.28
D_{10} 0.08 UNIFIED CLASS SP-SM

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL
△ HYDROMETER

PROJECT: WEBSTER - DNR
REMARKS:
DATE:
JOB NO: 6525.98



BORING NO. OW-5 GRAVEL F SAND 79.0% D_{60} 0.29 C_U 1.6

SAMPLE NO. S-9 C. SAND 1.0 SILT } 3.0 D_{30} 0.20 C_Z 1.3

DEPTH 45'-46.5' M. SAND 17.0 CLAY } D_{10} 0.18 UNIFIED CLASS SP

ELEV.

PROJECT: WEBSTER - DNR

REMARKS:

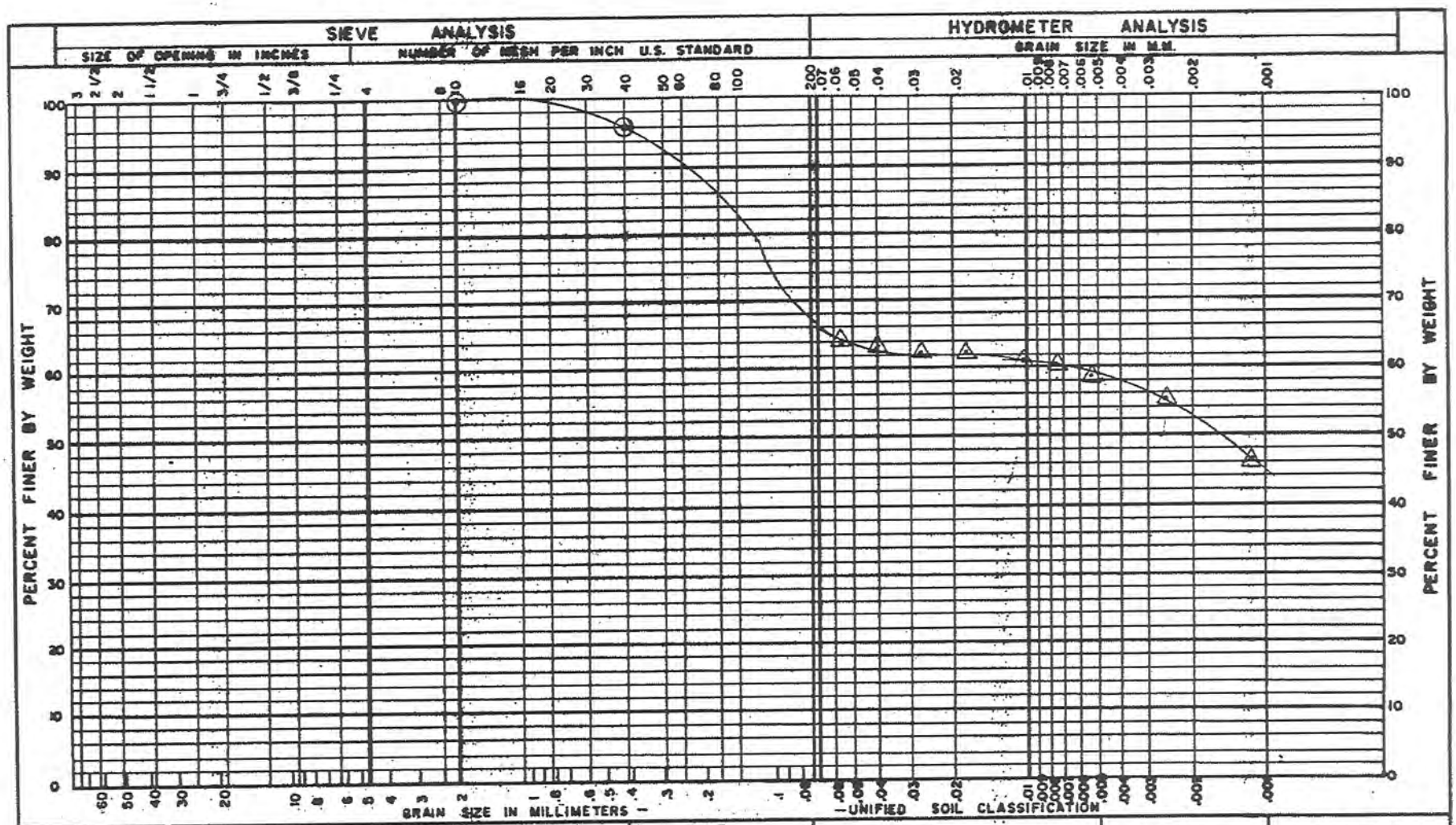
DATE:

JOB NO: 6525.98

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL

△ HYDROMETER



BORING NO. OW-7 GRAVEL F SAND 29% D_{60} C_U

SAMPLE NO. S-4 C. SAND SILT 8% D_{30} C_Z

DEPTH 2.5'-4.0 M. SAND 4.0% CLAY 14% D_{10} UNIFIED CLASS CH

ELEV. Colloids 45%

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL

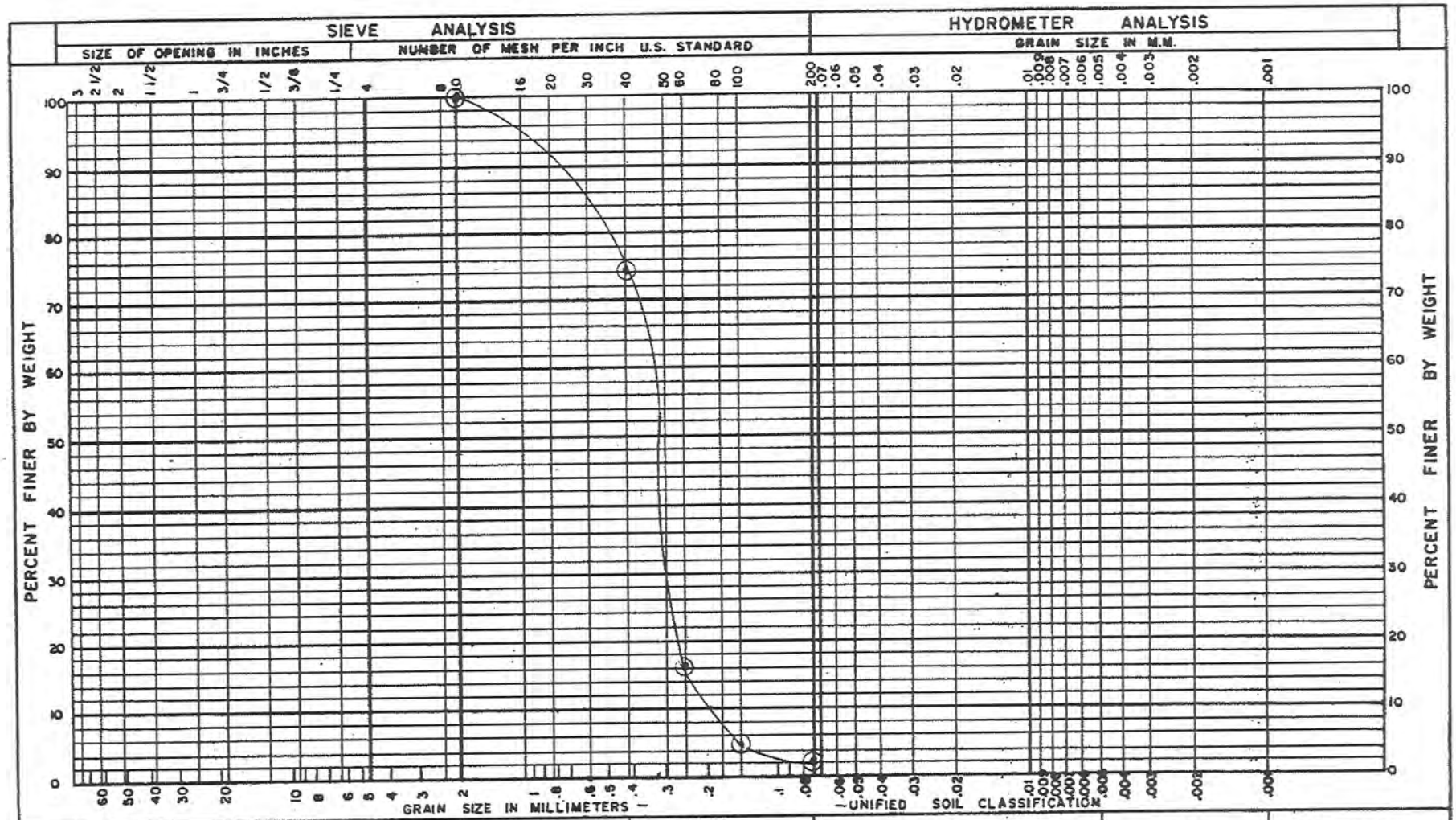
△ HYDROMETER

PROJECT: WEBSTER - DNR

REMARKS: AUGER WRAP SAMPLE

DATE:

JOB NO:



BORING NO. OW-7
SAMPLE NO. S-3
DEPTH 15'-16.5'
ELEV.

GRAVEL
C. SAND
M. SAND 26.0

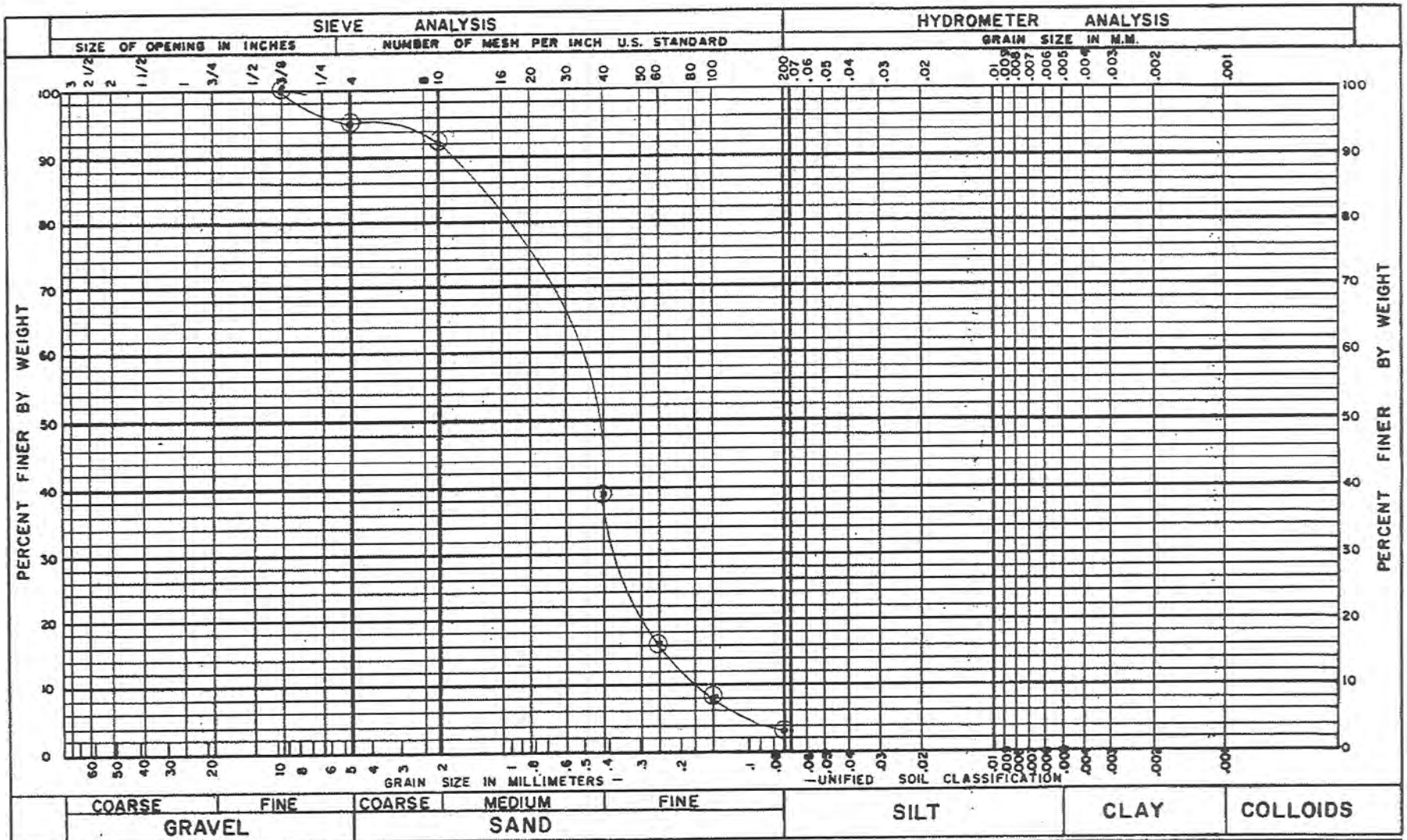
F SAND 72.0
SILT } 2.0
CLAY }

D_{60} .32 C_U 1.6
D_{30} .30 C_Z 1.4
D_{10} .2 UNIFIED CLASS SP

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL
△ HYDROMETER

PROJECT: WEBSTER - DNR
REMARKS:
DATE:
JOB NO: 6525.98



BORING NO. OW-9
SAMPLE NO. S-4
DEPTH 20'-21.5'
ELEV.

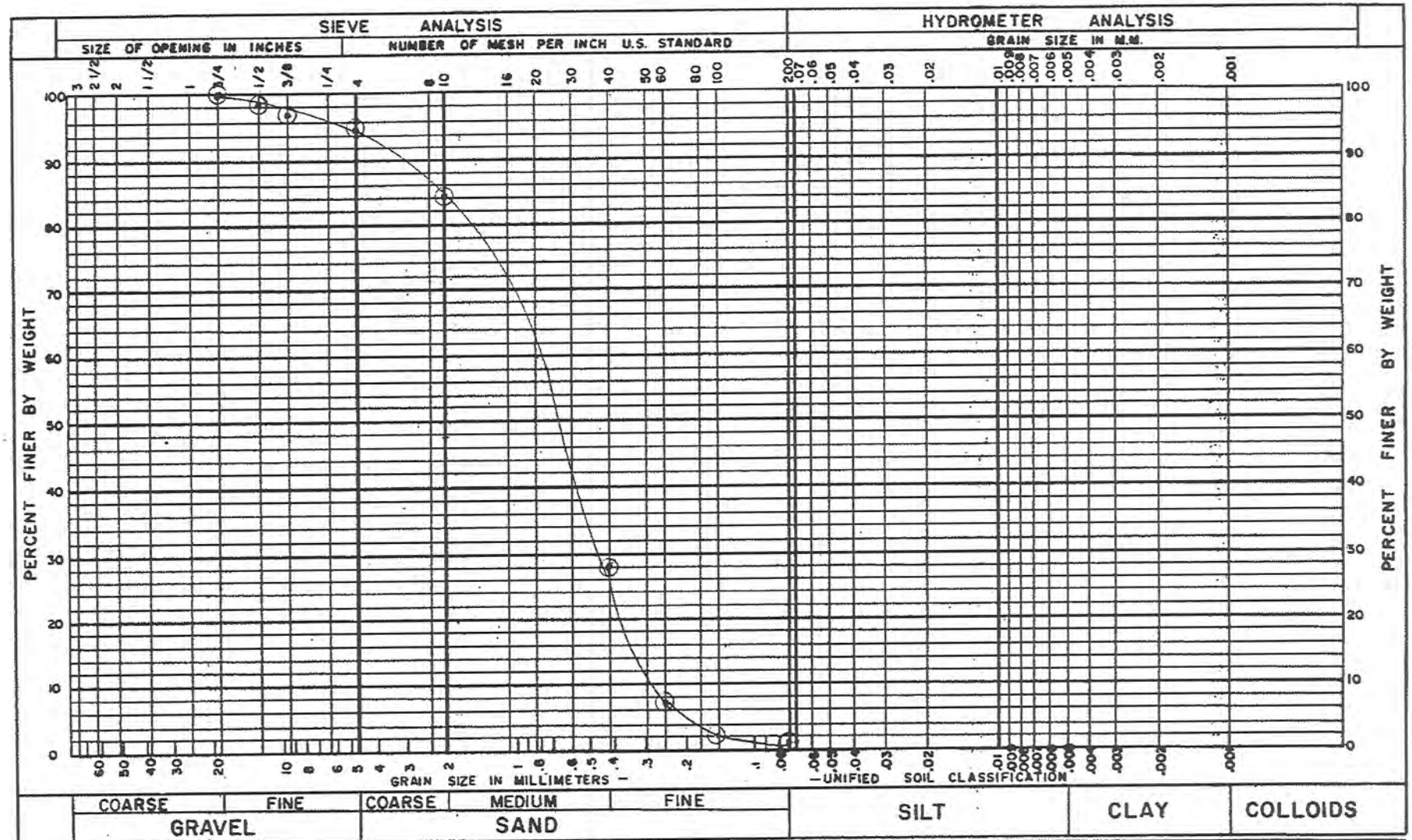
GRAVEL 5.0
C. SAND 3.0
M. SAND 53.0
F SAND 36.0
SILT } 3.0
CLAY }

D_{60} 0.50 C_U 2.8
D_{30} 0.39 C_Z 1.7
D_{10} 0.18 UNIFIED CLASS SP

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL
△ HYDROMETER

PROJECT: WEBSTER - DNR
REMARKS:
DATE:
JOB NO: 6525.98



BORING NO. OW-9 GRAVEL 5.0 F SAND 27.0% D_{60} 0.75 C_U 2.6

SAMPLE NO. S-7 C. SAND 11.0 SILT } 1.0% D_{30} 0.45 C_Z 0.93

DEPTH 35'-36.5' M.SAND 56.0 CLAY } D_{10} 0.29 UNIFIED CLASS SP

ELEV.

AYRES ASSOCIATES Engineers / Architects / Planners / Surveyors

⊙ MECHANICAL
△ HYDROMETER

PROJECT: WEBSTER - DNR

REMARKS:

DATE:

JOB NO: 6525.98

APPENDIX J

HYDRAULIC CONDUCTIVITY CALCULATIONS

Hydraulic Conductivity Calculations
WDNR State Lead Project
BRRTS #02-07-000337
Webster, Wisconsin

Monitoring Well	Hvorslev Method (cm/sec)	Hvorslev Method (ft/day)
MW91-1	1.35E-02	38.27
MW91-2A	1.70E-02	48.19
MW91-2B	Not Completed	Not Completed
MW91-3	Not Completed	Not Completed
MW91-4	2.42E-02	68.60
MW91-5A	1.23E-02	34.87
MW91-5B	Not Completed	Not Completed
MW91-6	1.57E-02	44.50
MW91-7	Not Completed	Not Completed
MW91-8	Not Completed	Not Completed
OW-1	2.25E-02	63.78
OW-2	1.63E-02	46.20
OW-3	1.65E-02	46.77
OW-4	1.83E-02	51.87
OW-5	1.93E-02	54.71
OW-6	1.74E-02	49.32
OW-7	2.90E-02	82.20
OW-8	1.33E-02	37.70
OW-9	1.97E-02	55.84
WC-91-1	Not Completed	Not Completed
WC-91-2	Not Completed	Not Completed
WC-91-3	1.86E-02	52.72
WC-91-4	1.68E-02	47.62
WD-91-1	1.71E-02	48.47
WD-91-2	2.25E-02	63.78
WD-91-3	1.86E-02	52.72

APPENDIX K

SOIL AND GROUNDWATER ANALYTICAL REPORTS

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

August 26, 2016

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

RE: Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko for
Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40136685001	**GP1 @ 2-4**	Solid	08/10/16 12:50	08/12/16 08:50
40136685002	**GP1 @ 6-7**	Solid	08/10/16 12:55	08/12/16 08:50
40136685003	**GP2 @ 2-3**	Solid	08/10/16 13:45	08/12/16 08:50
40136685004	**GP2 @ 8-9**	Solid	08/10/16 13:55	08/12/16 08:50
40136685005	**GP2 @ 14-15**	Solid	08/10/16 14:10	08/12/16 08:50
40136685006	**GP3 @ 2-4**	Solid	08/10/16 15:00	08/12/16 08:50
40136685007	**GP3 @ 14-15**	Solid	08/10/16 15:20	08/12/16 08:50
40136685008	**GP4 @ 2-4**	Solid	08/10/16 16:00	08/12/16 08:50
40136685009	**GP4 @ 14-15**	Solid	08/10/16 16:15	08/12/16 08:50
40136685010	**GP5 @ 2-4**	Solid	08/10/16 16:30	08/12/16 08:50
40136685011	**GP5 @ 9-10**	Solid	08/10/16 16:45	08/12/16 08:50
40136685012	**GP5 @ 19-20**	Solid	08/10/16 17:00	08/12/16 08:50
40136685013	**GP6 @ 2-4**	Solid	08/10/16 17:15	08/12/16 08:50
40136685014	**GP6 @ 14-15**	Solid	08/10/16 17:25	08/12/16 08:50
40136685015	**GP2**	Water	08/11/16 09:00	08/12/16 08:50

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

SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40136685001	**GP1 @ 2-4**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	KTS	1
40136685002	**GP1 @ 6-7**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	KTS	1
40136685003	**GP2 @ 2-3**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	KTS	1
40136685004	**GP2 @ 8-9**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	KTS	1
40136685005	**GP2 @ 14-15**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	KTS	1
40136685006	**GP3 @ 2-4**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685007	**GP3 @ 14-15**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685008	**GP4 @ 2-4**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685009	**GP4 @ 14-15**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685010	**GP5 @ 2-4**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685011	**GP5 @ 9-10**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1

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

SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	KTS	1
40136685012	**GP5 @ 19-20**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685013	**GP6 @ 2-4**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685014	**GP6 @ 14-15**	WI MOD GRO	PMS	10
		EPA 6010	DLB	1
		ASTM D2974-87	KTS	1
40136685015	**GP2**	WI MOD GRO	PMS	10

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP1 @ 2-4 **Lab ID: 40136685001** Collected: 08/10/16 12:50 Received: 08/12/16 08:50 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	**<2560**	ug/kg	5130	2560	80	08/16/16 05:30	08/16/16 15:34	71-43-2	W
Ethylbenzene	**33700**	ug/kg	6230	3120	80	08/16/16 05:30	08/16/16 15:34	100-41-4	
Methyl-tert-butyl ether	**<2560**	ug/kg	5130	2560	80	08/16/16 05:30	08/16/16 15:34	1634-04-4	W
Naphthalene	**110000**	ug/kg	6230	3120	80	08/16/16 05:30	08/16/16 15:34	91-20-3	
Toluene	**<2560**	ug/kg	5130	2560	80	08/16/16 05:30	08/16/16 15:34	108-88-3	W
1,2,4-Trimethylbenzene	**250000**	ug/kg	6230	3120	80	08/16/16 05:30	08/16/16 15:34	95-63-6	
1,3,5-Trimethylbenzene	**118000**	ug/kg	6230	3120	80	08/16/16 05:30	08/16/16 15:34	108-67-8	
m&p-Xylene	**120000**	ug/kg	12500	6230	80	08/16/16 05:30	08/16/16 15:34	179601-23-1	
o-Xylene	**90900**	ug/kg	6230	3120	80	08/16/16 05:30	08/16/16 15:34	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	%	80-120		80	08/16/16 05:30	08/16/16 15:34	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**40.3**	mg/kg	1.3	0.46	1	08/23/16 16:05	08/24/16 19:59	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**1890J**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	83-32-9	
Acenaphthylene	**<1450**	ug/kg	3240	1450	160	08/22/16 09:18	08/23/16 09:39	208-96-8	
Anthracene	**<1680**	ug/kg	3240	1680	160	08/22/16 09:18	08/23/16 09:39	120-12-7	
Benzo(a)anthracene	**<1120**	ug/kg	3240	1120	160	08/22/16 09:18	08/23/16 09:39	56-55-3	
Benzo(a)pyrene	**<1160**	ug/kg	3240	1160	160	08/22/16 09:18	08/23/16 09:39	50-32-8	
Benzo(b)fluoranthene	**<1620**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	205-99-2	
Benzo(g,h,i)perylene	**<1230**	ug/kg	3240	1230	160	08/22/16 09:18	08/23/16 09:39	191-24-2	
Benzo(k)fluoranthene	**<1790**	ug/kg	3240	1790	160	08/22/16 09:18	08/23/16 09:39	207-08-9	
Chrysene	**<1500**	ug/kg	3240	1500	160	08/22/16 09:18	08/23/16 09:39	218-01-9	
Dibenz(a,h)anthracene	**<1190**	ug/kg	3240	1190	160	08/22/16 09:18	08/23/16 09:39	53-70-3	
Fluoranthene	**<1620**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	206-44-0	
Fluorene	**4210**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**<1230**	ug/kg	3240	1230	160	08/22/16 09:18	08/23/16 09:39	193-39-5	
1-Methylnaphthalene	**35500**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	90-12-0	
2-Methylnaphthalene	**49000**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	91-57-6	
Naphthalene	**26700**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	91-20-3	
Phenanthrene	**4910**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	85-01-8	
Pyrene	**<1620**	ug/kg	3240	1620	160	08/22/16 09:18	08/23/16 09:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0	%	26-130		160	08/22/16 09:18	08/23/16 09:39	321-60-8	S4
Terphenyl-d14 (S)	0	%	10-130		160	08/22/16 09:18	08/23/16 09:39	1718-51-0	S4
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		08/24/16 14:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP1 @ 6-7 **Lab ID: 40136685002** Collected: 08/10/16 12:55 Received: 08/12/16 08:50 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	**1410**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	71-43-2	
Ethylbenzene	**6450**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	100-41-4	
Methyl-tert-butyl ether	**<200**	ug/kg	400	200	8	08/16/16 05:30	08/16/16 15:09	1634-04-4	W
Naphthalene	**9150**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	91-20-3	
Toluene	**1240**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	108-88-3	
1,2,4-Trimethylbenzene	**23900**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	95-63-6	
1,3,5-Trimethylbenzene	**10500**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	108-67-8	
m&p-Xylene	**25100**	ug/kg	972	486	8	08/16/16 05:30	08/16/16 15:09	179601-23-1	
o-Xylene	**10100**	ug/kg	486	243	8	08/16/16 05:30	08/16/16 15:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		8	08/16/16 05:30	08/16/16 15:09	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**3.8**	mg/kg	1.4	0.52	1	08/23/16 16:05	08/24/16 19:19	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<253**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	83-32-9	M6
Acenaphthylene	**<227**	ug/kg	506	227	25	08/22/16 09:18	08/23/16 11:09	208-96-8	M6
Anthracene	**<262**	ug/kg	506	262	25	08/22/16 09:18	08/23/16 11:09	120-12-7	M6
Benzo(a)anthracene	**<175**	ug/kg	506	175	25	08/22/16 09:18	08/23/16 11:09	56-55-3	M6
Benzo(a)pyrene	**<181**	ug/kg	506	181	25	08/22/16 09:18	08/23/16 11:09	50-32-8	
Benzo(b)fluoranthene	**<253**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	205-99-2	
Benzo(g,h,i)perylene	**<193**	ug/kg	506	193	25	08/22/16 09:18	08/23/16 11:09	191-24-2	
Benzo(k)fluoranthene	**<280**	ug/kg	506	280	25	08/22/16 09:18	08/23/16 11:09	207-08-9	M6
Chrysene	**<234**	ug/kg	506	234	25	08/22/16 09:18	08/23/16 11:09	218-01-9	M6
Dibenz(a,h)anthracene	**<186**	ug/kg	506	186	25	08/22/16 09:18	08/23/16 11:09	53-70-3	
Fluoranthene	**<253**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	206-44-0	
Fluorene	**<253**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	86-73-7	M6
Indeno(1,2,3-cd)pyrene	**<192**	ug/kg	506	192	25	08/22/16 09:18	08/23/16 11:09	193-39-5	
1-Methylnaphthalene	**4330**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	90-12-0	M6
2-Methylnaphthalene	**6460**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	91-57-6	M6
Naphthalene	**3740**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	91-20-3	M6
Phenanthrene	**388J**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	85-01-8	M6
Pyrene	**<253**	ug/kg	506	253	25	08/22/16 09:18	08/23/16 11:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	32	%	26-130		25	08/22/16 09:18	08/23/16 11:09	321-60-8	
Terphenyl-d14 (S)	39	%	10-130		25	08/22/16 09:18	08/23/16 11:09	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		08/24/16 14:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP2 @ 2-3 **Lab ID: 40136685003** Collected: 08/10/16 13:45 Received: 08/12/16 08:50 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	**<556**	ug/kg	1110	556	20	08/16/16 05:30	08/16/16 16:00	71-43-2	W
Ethylbenzene	**1530**	ug/kg	1470	733	20	08/16/16 05:30	08/16/16 16:00	100-41-4	
Methyl-tert-butyl ether	**<556**	ug/kg	1110	556	20	08/16/16 05:30	08/16/16 16:00	1634-04-4	W
Naphthalene	**26300**	ug/kg	1470	733	20	08/16/16 05:30	08/16/16 16:00	91-20-3	
Toluene	**<556**	ug/kg	1110	556	20	08/16/16 05:30	08/16/16 16:00	108-88-3	W
1,2,4-Trimethylbenzene	**18400**	ug/kg	1470	733	20	08/16/16 05:30	08/16/16 16:00	95-63-6	
1,3,5-Trimethylbenzene	**10100**	ug/kg	1470	733	20	08/16/16 05:30	08/16/16 16:00	108-67-8	
m&p-Xylene	**3800**	ug/kg	2930	1470	20	08/16/16 05:30	08/16/16 16:00	179601-23-1	
o-Xylene	**2350**	ug/kg	1470	733	20	08/16/16 05:30	08/16/16 16:00	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		20	08/16/16 05:30	08/16/16 16:00	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**8.7**	mg/kg	1.4	0.49	1	08/23/16 16:05	08/24/16 19:26	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**199J**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	83-32-9	
Acenaphthylene	**<98.4**	ug/kg	220	98.4	10	08/22/16 09:18	08/23/16 12:01	208-96-8	
Anthracene	**<114**	ug/kg	220	114	10	08/22/16 09:18	08/23/16 12:01	120-12-7	
Benzo(a)anthracene	**<76.2**	ug/kg	220	76.2	10	08/22/16 09:18	08/23/16 12:01	56-55-3	
Benzo(a)pyrene	**<78.6**	ug/kg	220	78.6	10	08/22/16 09:18	08/23/16 12:01	50-32-8	
Benzo(b)fluoranthene	**<110**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	205-99-2	
Benzo(g,h,i)perylene	**<83.8**	ug/kg	220	83.8	10	08/22/16 09:18	08/23/16 12:01	191-24-2	
Benzo(k)fluoranthene	**<122**	ug/kg	220	122	10	08/22/16 09:18	08/23/16 12:01	207-08-9	
Chrysene	**<102**	ug/kg	220	102	10	08/22/16 09:18	08/23/16 12:01	218-01-9	
Dibenz(a,h)anthracene	**<80.7**	ug/kg	220	80.7	10	08/22/16 09:18	08/23/16 12:01	53-70-3	
Fluoranthene	**<110**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	206-44-0	
Fluorene	**347**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	86-73-7	
Indeno(1,2,3-cd)pyrene	**<83.6**	ug/kg	220	83.6	10	08/22/16 09:18	08/23/16 12:01	193-39-5	
1-Methylnaphthalene	**2260**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	90-12-0	
2-Methylnaphthalene	**2910**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	91-57-6	
Naphthalene	**897**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	91-20-3	
Phenanthrene	**407**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	85-01-8	
Pyrene	**<110**	ug/kg	220	110	10	08/22/16 09:18	08/23/16 12:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	55	%	26-130		10	08/22/16 09:18	08/23/16 12:01	321-60-8	
Terphenyl-d14 (S)	60	%	10-130		10	08/22/16 09:18	08/23/16 12:01	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**24.2**	%	0.10	0.10	1		08/24/16 14:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP2 @ 8-9 **Lab ID: 40136685004** Collected: 08/10/16 13:55 Received: 08/12/16 08:50 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	**<247**	ug/kg	494	247	8	08/16/16 05:30	08/16/16 16:51	71-43-2	W
Ethylbenzene	**993**	ug/kg	612	306	8	08/16/16 05:30	08/16/16 16:51	100-41-4	
Methyl-tert-butyl ether	**<247**	ug/kg	494	247	8	08/16/16 05:30	08/16/16 16:51	1634-04-4	W
Naphthalene	**14100**	ug/kg	612	306	8	08/16/16 05:30	08/16/16 16:51	91-20-3	
Toluene	**<247**	ug/kg	494	247	8	08/16/16 05:30	08/16/16 16:51	108-88-3	W
1,2,4-Trimethylbenzene	**11100**	ug/kg	612	306	8	08/16/16 05:30	08/16/16 16:51	95-63-6	
1,3,5-Trimethylbenzene	**5090**	ug/kg	612	306	8	08/16/16 05:30	08/16/16 16:51	108-67-8	
m&p-Xylene	**2160**	ug/kg	1220	612	8	08/16/16 05:30	08/16/16 16:51	179601-23-1	
o-Xylene	**1430**	ug/kg	612	306	8	08/16/16 05:30	08/16/16 16:51	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		8	08/16/16 05:30	08/16/16 16:51	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**20.3**	mg/kg	1.4	0.49	1	08/23/16 16:05	08/24/16 19:28	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**240**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	83-32-9	
Acenaphthylene	**108J**	ug/kg	207	92.4	10	08/22/16 09:18	08/23/16 12:18	208-96-8	
Anthracene	**<107**	ug/kg	207	107	10	08/22/16 09:18	08/23/16 12:18	120-12-7	
Benzo(a)anthracene	**<71.6**	ug/kg	207	71.6	10	08/22/16 09:18	08/23/16 12:18	56-55-3	
Benzo(a)pyrene	**<73.9**	ug/kg	207	73.9	10	08/22/16 09:18	08/23/16 12:18	50-32-8	
Benzo(b)fluoranthene	**<103**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	205-99-2	
Benzo(g,h,i)perylene	**<78.7**	ug/kg	207	78.7	10	08/22/16 09:18	08/23/16 12:18	191-24-2	
Benzo(k)fluoranthene	**<114**	ug/kg	207	114	10	08/22/16 09:18	08/23/16 12:18	207-08-9	
Chrysene	**<95.5**	ug/kg	207	95.5	10	08/22/16 09:18	08/23/16 12:18	218-01-9	
Dibenz(a,h)anthracene	**<75.8**	ug/kg	207	75.8	10	08/22/16 09:18	08/23/16 12:18	53-70-3	
Fluoranthene	**<103**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	206-44-0	
Fluorene	**408**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**<78.5**	ug/kg	207	78.5	10	08/22/16 09:18	08/23/16 12:18	193-39-5	
1-Methylnaphthalene	**3350**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	90-12-0	
2-Methylnaphthalene	**4230**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	91-57-6	
Naphthalene	**1310**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	91-20-3	
Phenanthrene	**491**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	85-01-8	
Pyrene	**<103**	ug/kg	207	103	10	08/22/16 09:18	08/23/16 12:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%	26-130		10	08/22/16 09:18	08/23/16 12:18	321-60-8	
Terphenyl-d14 (S)	65	%	10-130		10	08/22/16 09:18	08/23/16 12:18	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**19.3**	%	0.10	0.10	1		08/24/16 14:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP2 @ 14-15 **Lab ID: 40136685005** Collected: 08/10/16 14:10 Received: 08/12/16 08:50 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	**<27.8**	ug/kg	55.6	27.8	1	08/16/16 05:30	08/16/16 12:09	71-43-2	W
Ethylbenzene	**<27.8**	ug/kg	55.6	27.8	1	08/16/16 05:30	08/16/16 12:09	100-41-4	W
Methyl-tert-butyl ether	**<27.8**	ug/kg	55.6	27.8	1	08/16/16 05:30	08/16/16 12:09	1634-04-4	W
Naphthalene	**306**	ug/kg	69.8	34.9	1	08/16/16 05:30	08/16/16 12:09	91-20-3	
Toluene	**<27.8**	ug/kg	55.6	27.8	1	08/16/16 05:30	08/16/16 12:09	108-88-3	W
1,2,4-Trimethylbenzene	**36.4J**	ug/kg	69.8	34.9	1	08/16/16 05:30	08/16/16 12:09	95-63-6	
1,3,5-Trimethylbenzene	**<27.8**	ug/kg	55.6	27.8	1	08/16/16 05:30	08/16/16 12:09	108-67-8	W
m&p-Xylene	**<55.6**	ug/kg	111	55.6	1	08/16/16 05:30	08/16/16 12:09	179601-23-1	W
o-Xylene	**<27.8**	ug/kg	55.6	27.8	1	08/16/16 05:30	08/16/16 12:09	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/16/16 05:30	08/16/16 12:09	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.2J**	mg/kg	1.4	0.52	1	08/23/16 16:05	08/24/16 19:30	7439-92-1	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	83-32-9	
Acenaphthylene	**<9.4**	ug/kg	20.9	9.4	1	08/22/16 09:18	08/23/16 02:09	208-96-8	
Anthracene	**<10.9**	ug/kg	20.9	10.9	1	08/22/16 09:18	08/23/16 02:09	120-12-7	
Benzo(a)anthracene	**<7.3**	ug/kg	20.9	7.3	1	08/22/16 09:18	08/23/16 02:09	56-55-3	
Benzo(a)pyrene	**<7.5**	ug/kg	20.9	7.5	1	08/22/16 09:18	08/23/16 02:09	50-32-8	
Benzo(b)fluoranthene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	205-99-2	
Benzo(g,h,i)perylene	**<8.0**	ug/kg	20.9	8.0	1	08/22/16 09:18	08/23/16 02:09	191-24-2	
Benzo(k)fluoranthene	**<11.6**	ug/kg	20.9	11.6	1	08/22/16 09:18	08/23/16 02:09	207-08-9	
Chrysene	**<9.7**	ug/kg	20.9	9.7	1	08/22/16 09:18	08/23/16 02:09	218-01-9	
Dibenz(a,h)anthracene	**<7.7**	ug/kg	20.9	7.7	1	08/22/16 09:18	08/23/16 02:09	53-70-3	
Fluoranthene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	206-44-0	
Fluorene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	86-73-7	
Indeno(1,2,3-cd)pyrene	**<8.0**	ug/kg	20.9	8.0	1	08/22/16 09:18	08/23/16 02:09	193-39-5	
1-Methylnaphthalene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	90-12-0	
2-Methylnaphthalene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	91-57-6	
Naphthalene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	91-20-3	
Phenanthrene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	85-01-8	
Pyrene	**<10.5**	ug/kg	20.9	10.5	1	08/22/16 09:18	08/23/16 02:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%	26-130		1	08/22/16 09:18	08/23/16 02:09	321-60-8	
Terphenyl-d14 (S)	61	%	10-130		1	08/22/16 09:18	08/23/16 02:09	1718-51-0	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.4**	%	0.10	0.10	1		08/24/16 14:08		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP3 @ 2-4 **Lab ID: 40136685006** Collected: 08/10/16 15:00 Received: 08/12/16 08:50 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	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	71-43-2	W
Ethylbenzene	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	100-41-4	W
Methyl-tert-butyl ether	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	1634-04-4	W
Naphthalene	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	91-20-3	W
Toluene	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	108-88-3	W
1,2,4-Trimethylbenzene	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	95-63-6	W
1,3,5-Trimethylbenzene	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	108-67-8	W
m&p-Xylene	**<54.3**	ug/kg	109	54.3	1	08/16/16 05:30	08/16/16 12:34	179601-23-1	W
o-Xylene	**<27.2**	ug/kg	54.3	27.2	1	08/16/16 05:30	08/16/16 12:34	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/16/16 05:30	08/16/16 12:34	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**4.0**	mg/kg	1.3	0.46	1	08/23/16 16:05	08/24/16 19:33	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**18.0**	%	0.10	0.10	1		08/24/16 14:08		

Sample: GP3 @ 14-15 **Lab ID: 40136685007** Collected: 08/10/16 15:20 Received: 08/12/16 08:50 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	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	91-20-3	W
Toluene	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	100	50.0	1	08/16/16 05:30	08/16/16 13:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	50.0	25.0	1	08/16/16 05:30	08/16/16 13:00	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/16/16 05:30	08/16/16 13:00	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.2J**	mg/kg	1.2	0.45	1	08/23/16 16:05	08/24/16 19:35	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.3**	%	0.10	0.10	1		08/24/16 14:09		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP4 @ 2-4 **Lab ID: 40136685008** Collected: 08/10/16 16:00 Received: 08/12/16 08:50 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	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	71-43-2	W
Ethylbenzene	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	100-41-4	W
Methyl-tert-butyl ether	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	1634-04-4	W
Naphthalene	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	91-20-3	W
Toluene	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	108-88-3	W
1,2,4-Trimethylbenzene	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	95-63-6	W
1,3,5-Trimethylbenzene	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	108-67-8	W
m&p-Xylene	**<68.5**	ug/kg	137	68.5	1	08/16/16 05:30	08/16/16 13:26	179601-23-1	W
o-Xylene	**<34.2**	ug/kg	68.5	34.2	1	08/16/16 05:30	08/16/16 13:26	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	08/16/16 05:30	08/16/16 13:26	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**2.3**	mg/kg	1.2	0.44	1	08/23/16 16:05	08/24/16 19:37	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.4**	%	0.10	0.10	1		08/24/16 14:09		

Sample: GP4 @ 14-15 **Lab ID: 40136685009** Collected: 08/10/16 16:15 Received: 08/12/16 08:50 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	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	71-43-2	W
Ethylbenzene	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	100-41-4	W
Methyl-tert-butyl ether	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	1634-04-4	W
Naphthalene	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	91-20-3	W
Toluene	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	108-88-3	W
1,2,4-Trimethylbenzene	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	95-63-6	W
1,3,5-Trimethylbenzene	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	108-67-8	W
m&p-Xylene	**<82.0**	ug/kg	164	82.0	1	08/16/16 05:30	08/16/16 14:43	179601-23-1	W
o-Xylene	**<41.0**	ug/kg	82.0	41.0	1	08/16/16 05:30	08/16/16 14:43	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	08/16/16 05:30	08/16/16 14:43	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.93J**	mg/kg	1.1	0.41	1	08/23/16 16:05	08/24/16 19:44	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.0**	%	0.10	0.10	1		08/24/16 14:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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Green Bay, WI 54302
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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP5 @ 2-4 **Lab ID: 40136685010** Collected: 08/10/16 16:30 Received: 08/12/16 08:50 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	**4670**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	71-43-2	
Ethylbenzene	**24800**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	100-41-4	
Methyl-tert-butyl ether	**<906**	ug/kg	1810	906	25	08/16/16 05:30	08/16/16 16:26	1634-04-4	W
Naphthalene	**37600**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	91-20-3	
Toluene	**2140**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	108-88-3	
1,2,4-Trimethylbenzene	**120000**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	95-63-6	
1,3,5-Trimethylbenzene	**44600**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	108-67-8	
m&p-Xylene	**130000**	ug/kg	4040	2020	25	08/16/16 05:30	08/16/16 16:26	179601-23-1	
o-Xylene	**62500**	ug/kg	2020	1010	25	08/16/16 05:30	08/16/16 16:26	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		25	08/16/16 05:30	08/16/16 16:26	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**11.1**	mg/kg	1.1	0.41	1	08/23/16 16:05	08/24/16 19:47	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.4**	%	0.10	0.10	1		08/24/16 14:09		

Sample: GP5 @ 9-10 **Lab ID: 40136685011** Collected: 08/10/16 16:45 Received: 08/12/16 08:50 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	**13300**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	71-43-2	
Ethylbenzene	**51100**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	100-41-4	
Methyl-tert-butyl ether	**<1710**	ug/kg	3420	1710	50	08/16/16 05:30	08/16/16 17:17	1634-04-4	W
Naphthalene	**66800**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	91-20-3	
Toluene	**68100**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	108-88-3	
1,2,4-Trimethylbenzene	**179000**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	95-63-6	
1,3,5-Trimethylbenzene	**64900**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	108-67-8	
m&p-Xylene	**217000**	ug/kg	7500	3750	50	08/16/16 05:30	08/16/16 17:17	179601-23-1	
o-Xylene	**91300**	ug/kg	3750	1870	50	08/16/16 05:30	08/16/16 17:17	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		50	08/16/16 05:30	08/16/16 17:17	98-08-8	D3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**4.2**	mg/kg	1.3	0.47	1	08/23/16 16:05	08/24/16 19:49	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.7**	%	0.10	0.10	1		08/24/16 14:09		

REPORT OF LABORATORY ANALYSIS

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1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP5 @ 19-20 **Lab ID: 40136685012** Collected: 08/10/16 17:00 Received: 08/12/16 08:50 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	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	71-43-2	W
Ethylbenzene	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	100-41-4	W
Methyl-tert-butyl ether	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	1634-04-4	W
Naphthalene	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	91-20-3	W
Toluene	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	108-88-3	W
1,2,4-Trimethylbenzene	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	95-63-6	W
1,3,5-Trimethylbenzene	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	108-67-8	W
m&p-Xylene	**<52.1**	ug/kg	104	52.1	1	08/16/16 05:30	08/16/16 19:00	179601-23-1	W
o-Xylene	**<26.0**	ug/kg	52.1	26.0	1	08/16/16 05:30	08/16/16 19:00	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	08/16/16 05:30	08/16/16 19:00	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.95J**	mg/kg	1.2	0.44	1	08/23/16 16:05	08/24/16 19:52	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.4**	%	0.10	0.10	1		08/24/16 15:09		

Sample: GP6 @ 2-4 **Lab ID: 40136685013** Collected: 08/10/16 17:15 Received: 08/12/16 08:50 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	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	71-43-2	W
Ethylbenzene	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	100-41-4	W
Methyl-tert-butyl ether	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	1634-04-4	W
Naphthalene	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	91-20-3	W
Toluene	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	108-88-3	W
1,2,4-Trimethylbenzene	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	95-63-6	W
1,3,5-Trimethylbenzene	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	108-67-8	W
m&p-Xylene	**<80.6**	ug/kg	161	80.6	1	08/16/16 05:30	08/16/16 19:25	179601-23-1	W
o-Xylene	**<40.3**	ug/kg	80.6	40.3	1	08/16/16 05:30	08/16/16 19:25	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/16/16 05:30	08/16/16 19:25	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**34.3**	mg/kg	3.5	1.2	2	08/23/16 16:05	08/25/16 19:15	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**30.6**	%	0.10	0.10	1		08/24/16 15:09		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Sample: GP6 @ 14-15 **Lab ID: 40136685014** Collected: 08/10/16 17:25 Received: 08/12/16 08:50 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	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	71-43-2	W
Ethylbenzene	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	100-41-4	W
Methyl-tert-butyl ether	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	1634-04-4	W
Naphthalene	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	91-20-3	W
Toluene	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	108-88-3	W
1,2,4-Trimethylbenzene	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	95-63-6	W
1,3,5-Trimethylbenzene	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	108-67-8	W
m&p-Xylene	**<74.6**	ug/kg	149	74.6	1	08/16/16 05:30	08/16/16 19:51	179601-23-1	W
o-Xylene	**<37.3**	ug/kg	74.6	37.3	1	08/16/16 05:30	08/16/16 19:51	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	08/16/16 05:30	08/16/16 19:51	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.0J**	mg/kg	1.2	0.44	1	08/23/16 16:05	08/24/16 19:56	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.9**	%	0.10	0.10	1		08/24/16 15:09		

Sample: GP2 **Lab ID: 40136685015** Collected: 08/11/16 09:00 Received: 08/12/16 08:50 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		08/15/16 16:36	71-43-2	
Ethylbenzene	**0.62J**	ug/L	1.0	0.39	1		08/15/16 16:36	100-41-4	
Methyl-tert-butyl ether	**1.5**	ug/L	1.0	0.48	1		08/15/16 16:36	1634-04-4	
Naphthalene	**7.0**	ug/L	1.0	0.42	1		08/15/16 16:36	91-20-3	
Toluene	**1.1**	ug/L	1.0	0.39	1		08/15/16 16:36	108-88-3	
1,2,4-Trimethylbenzene	**3.0**	ug/L	1.0	0.42	1		08/15/16 16:36	95-63-6	
1,3,5-Trimethylbenzene	**1.6**	ug/L	1.0	0.42	1		08/15/16 16:36	108-67-8	
m&p-Xylene	**1.4J**	ug/L	2.0	0.80	1		08/15/16 16:36	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		08/15/16 16:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		1		08/15/16 16:36	98-08-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

QC Batch: 232381 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005, 40136685006, 40136685007, 40136685008, 40136685009, 40136685010, 40136685011, 40136685012, 40136685013, 40136685014

METHOD BLANK: 1377949 Matrix: Solid
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005, 40136685006, 40136685007, 40136685008, 40136685009, 40136685010, 40136685011, 40136685012, 40136685013, 40136685014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	08/16/16 07:52	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	08/16/16 07:52	
Benzene	ug/kg	<25.0	50.0	08/16/16 07:52	
Ethylbenzene	ug/kg	<25.0	50.0	08/16/16 07:52	
m&p-Xylene	ug/kg	<50.0	100	08/16/16 07:52	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	08/16/16 07:52	
Naphthalene	ug/kg	<25.0	50.0	08/16/16 07:52	
o-Xylene	ug/kg	<25.0	50.0	08/16/16 07:52	
Toluene	ug/kg	<25.0	50.0	08/16/16 07:52	
a,a,a-Trifluorotoluene (S)	%	101	80-120	08/16/16 07:52	

LABORATORY CONTROL SAMPLE & LCSD: 1377950 1377951

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	1150	1090	115	109	80-120	6	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1130	1070	113	107	80-120	6	20	
Benzene	ug/kg	1000	1110	1070	111	107	80-120	4	20	
Ethylbenzene	ug/kg	1000	1110	1050	111	105	80-120	6	20	
m&p-Xylene	ug/kg	2000	2250	2100	112	105	80-120	7	20	
Methyl-tert-butyl ether	ug/kg	1000	1160	1070	116	107	80-120	8	20	
Naphthalene	ug/kg	1000	1060	1000	106	100	80-120	6	20	
o-Xylene	ug/kg	1000	1140	1060	114	106	80-120	7	20	
Toluene	ug/kg	1000	1090	1050	109	105	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

QC Batch: 232262
QC Batch Method: WI MOD GRO
Analysis Method: WI MOD GRO
Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40136685015

METHOD BLANK: 1377678 Matrix: Water
Associated Lab Samples: 40136685015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	08/15/16 10:36	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	08/15/16 10:36	
Benzene	ug/L	<0.40	1.0	08/15/16 10:36	
Ethylbenzene	ug/L	<0.39	1.0	08/15/16 10:36	
m&p-Xylene	ug/L	<0.80	2.0	08/15/16 10:36	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	08/15/16 10:36	
Naphthalene	ug/L	<0.42	1.0	08/15/16 10:36	
o-Xylene	ug/L	<0.45	1.0	08/15/16 10:36	
Toluene	ug/L	<0.39	1.0	08/15/16 10:36	
a,a,a-Trifluorotoluene (S)	%	105	80-120	08/15/16 10:36	

LABORATORY CONTROL SAMPLE & LCSD: 1377679 1377680

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	19.7	19.1	99	96	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	19.1	18.7	95	93	80-120	2	20	
Benzene	ug/L	20	20.3	20.3	101	101	80-120	0	20	
Ethylbenzene	ug/L	20	19.4	19.3	97	96	80-120	1	20	
m&p-Xylene	ug/L	40	38.5	38.4	96	96	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.4	19.9	102	99	80-120	3	20	
Naphthalene	ug/L	20	19.5	18.8	98	94	80-120	4	20	
o-Xylene	ug/L	20	19.7	19.7	99	99	80-120	0	20	
Toluene	ug/L	20	20.0	19.9	100	99	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				103	104	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1377869 1377870

Parameter	Units	40136648001 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	18.9	18.5	94	93	48-177	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	17.4	17.2	87	86	73-145	1	20	
Benzene	ug/L	<0.40	20	20	21.9	21.7	109	108	74-139	1	20	
Ethylbenzene	ug/L	<0.39	20	20	21.2	20.7	106	103	74-140	2	20	
m&p-Xylene	ug/L	<0.80	40	40	39.5	38.8	99	97	55-165	2	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	21.8	21.1	109	106	80-120	3	20	
Naphthalene	ug/L	0.84J	20	20	20.9	20.2	100	97	73-133	3	20	
o-Xylene	ug/L	<0.45	20	20	20.1	19.7	101	98	73-136	2	20	
Toluene	ug/L	<0.39	20	20	21.4	21.2	107	106	80-128	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1377869 1377870

Parameter	Units	40136648001 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)	%						103	102	80-120			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

QC Batch: 233035 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005, 40136685006, 40136685007, 40136685008, 40136685009, 40136685010, 40136685011, 40136685012, 40136685013, 40136685014

METHOD BLANK: 1381180 Matrix: Solid
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005, 40136685006, 40136685007, 40136685008, 40136685009, 40136685010, 40136685011, 40136685012, 40136685013, 40136685014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.2	08/24/16 19:10	

LABORATORY CONTROL SAMPLE: 1381181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.0	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1381182 1381183

Parameter	Units	40136685002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	3.8	60.3	60.8	60.3	60.8	94	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

QC Batch: 232924 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005

METHOD BLANK: 1380786 Matrix: Solid
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	08/22/16 15:28	
2-Methylnaphthalene	ug/kg	<8.3	16.7	08/22/16 15:28	
Acenaphthene	ug/kg	<8.3	16.7	08/22/16 15:28	
Acenaphthylene	ug/kg	<7.5	16.7	08/22/16 15:28	
Anthracene	ug/kg	<8.6	16.7	08/22/16 15:28	
Benzo(a)anthracene	ug/kg	<5.8	16.7	08/22/16 15:28	
Benzo(a)pyrene	ug/kg	<6.0	16.7	08/22/16 15:28	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	08/22/16 15:28	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	08/22/16 15:28	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	08/22/16 15:28	
Chrysene	ug/kg	<7.7	16.7	08/22/16 15:28	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	08/22/16 15:28	
Fluoranthene	ug/kg	<8.3	16.7	08/22/16 15:28	
Fluorene	ug/kg	<8.3	16.7	08/22/16 15:28	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	08/22/16 15:28	
Naphthalene	ug/kg	<8.3	16.7	08/22/16 15:28	
Phenanthrene	ug/kg	<8.3	16.7	08/22/16 15:28	
Pyrene	ug/kg	<8.3	16.7	08/22/16 15:28	
2-Fluorobiphenyl (S)	%	57	26-130	08/22/16 15:28	
Terphenyl-d14 (S)	%	88	10-130	08/22/16 15:28	

LABORATORY CONTROL SAMPLE: 1380787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	269	81	48-130	
2-Methylnaphthalene	ug/kg	333	276	83	49-130	
Acenaphthene	ug/kg	333	245	73	54-130	
Acenaphthylene	ug/kg	333	233	70	56-130	
Anthracene	ug/kg	333	281	84	70-130	
Benzo(a)anthracene	ug/kg	333	282	84	58-130	
Benzo(a)pyrene	ug/kg	333	307	92	58-130	
Benzo(b)fluoranthene	ug/kg	333	281	84	50-130	
Benzo(g,h,i)perylene	ug/kg	333	337	101	39-130	
Benzo(k)fluoranthene	ug/kg	333	287	86	57-130	
Chrysene	ug/kg	333	296	89	64-130	
Dibenz(a,h)anthracene	ug/kg	333	357	107	44-130	
Fluoranthene	ug/kg	333	275	82	59-130	
Fluorene	ug/kg	333	244	73	56-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	362	109	45-130	
Naphthalene	ug/kg	333	248	75	46-130	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

LABORATORY CONTROL SAMPLE: 1380787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	280	84	56-130	
Pyrene	ug/kg	333	275	83	59-130	
2-Fluorobiphenyl (S)	%			71	26-130	
Terphenyl-d14 (S)	%			86	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1380788 1380789

Parameter	Units	40136685002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	4330	405	405	3270	3300	-261	-255	41-130	1	24	M6
2-Methylnaphthalene	ug/kg	6460	405	405	5090	4960	-340	-370	42-130	2	25	M6
Acenaphthene	ug/kg	<253	405	405	258J	256J	29	28	49-130		27	M6
Acenaphthylene	ug/kg	<227	405	405	<227	<227	30	34	52-130		26	M6
Anthracene	ug/kg	<262	405	405	<262	<262	43	43	61-130		29	M6
Benzo(a)anthracene	ug/kg	<175	405	405	<175	188J	43	46	45-130		28	M6
Benzo(a)pyrene	ug/kg	<181	405	405	<181	<181	40	44	39-130		34	
Benzo(b)fluoranthene	ug/kg	<253	405	405	<253	<253	42	44	30-130		43	
Benzo(g,h,i)perylene	ug/kg	<193	405	405	<193	<193	44	47	24-130		34	
Benzo(k)fluoranthene	ug/kg	<280	405	405	<280	<280	36	41	41-130		32	M6
Chrysene	ug/kg	<234	405	405	<234	<234	44	49	46-130		37	M6
Dibenz(a,h)anthracene	ug/kg	<186	405	405	192J	208J	47	51	33-130		34	
Fluoranthene	ug/kg	<253	405	405	<253	<253	41	44	41-130		25	
Fluorene	ug/kg	<253	405	405	329J	366J	21	30	49-130		30	M6
Indeno(1,2,3-cd)pyrene	ug/kg	<192	405	405	195J	209J	48	52	30-130		28	
Naphthalene	ug/kg	3740	405	405	3090	3020	-161	-179	39-130	2	26	M6
Phenanthrene	ug/kg	388J	405	405	491J	514	25	31	47-130		26	M6
Pyrene	ug/kg	<253	405	405	<253	<253	39	45	37-130		30	
2-Fluorobiphenyl (S)	%						31	35	26-130			
Terphenyl-d14 (S)	%						36	40	10-130			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

QC Batch: 233217 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40136685001, 40136685002, 40136685003, 40136685004, 40136685005, 40136685006, 40136685007, 40136685008, 40136685009, 40136685010, 40136685011

SAMPLE DUPLICATE: 1382024

Parameter	Units	40136667027 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.8	30.6	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

QC Batch: 233226 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40136685012, 40136685013, 40136685014

SAMPLE DUPLICATE: 1382082

Parameter	Units	40136667030 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	29.0	29.9	3	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

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.

BATCH QUALIFIERS

Batch: 232984

[IP]	Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.
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.: 40136685

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40136685001	**GP1 @ 2-4**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685002	**GP1 @ 6-7**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685003	**GP2 @ 2-3**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685004	**GP2 @ 8-9**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685005	**GP2 @ 14-15**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685006	**GP3 @ 2-4**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685007	**GP3 @ 14-15**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685008	**GP4 @ 2-4**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685009	**GP4 @ 14-15**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685010	**GP5 @ 2-4**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685011	**GP5 @ 9-10**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685012	**GP5 @ 19-20**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685013	**GP6 @ 2-4**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685014	**GP6 @ 14-15**	TPH GRO/PVOC WI ext.	232381	WI MOD GRO	232383
40136685015	**GP2**	WI MOD GRO	232262		
40136685001	**GP1 @ 2-4**	EPA 3050	233035	EPA 6010	233211
40136685002	**GP1 @ 6-7**	EPA 3050	233035	EPA 6010	233211
40136685003	**GP2 @ 2-3**	EPA 3050	233035	EPA 6010	233211
40136685004	**GP2 @ 8-9**	EPA 3050	233035	EPA 6010	233211
40136685005	**GP2 @ 14-15**	EPA 3050	233035	EPA 6010	233211
40136685006	**GP3 @ 2-4**	EPA 3050	233035	EPA 6010	233211
40136685007	**GP3 @ 14-15**	EPA 3050	233035	EPA 6010	233211
40136685008	**GP4 @ 2-4**	EPA 3050	233035	EPA 6010	233211
40136685009	**GP4 @ 14-15**	EPA 3050	233035	EPA 6010	233211
40136685010	**GP5 @ 2-4**	EPA 3050	233035	EPA 6010	233211
40136685011	**GP5 @ 9-10**	EPA 3050	233035	EPA 6010	233211
40136685012	**GP5 @ 19-20**	EPA 3050	233035	EPA 6010	233211
40136685013	**GP6 @ 2-4**	EPA 3050	233035	EPA 6010	233211
40136685014	**GP6 @ 14-15**	EPA 3050	233035	EPA 6010	233211
40136685001	**GP1 @ 2-4**	EPA 3546	232924	EPA 8270 by SIM	232984
40136685002	**GP1 @ 6-7**	EPA 3546	232924	EPA 8270 by SIM	232984
40136685003	**GP2 @ 2-3**	EPA 3546	232924	EPA 8270 by SIM	232984
40136685004	**GP2 @ 8-9**	EPA 3546	232924	EPA 8270 by SIM	232984
40136685005	**GP2 @ 14-15**	EPA 3546	232924	EPA 8270 by SIM	232984
40136685001	**GP1 @ 2-4**	ASTM D2974-87	233217		
40136685002	**GP1 @ 6-7**	ASTM D2974-87	233217		
40136685003	**GP2 @ 2-3**	ASTM D2974-87	233217		
40136685004	**GP2 @ 8-9**	ASTM D2974-87	233217		
40136685005	**GP2 @ 14-15**	ASTM D2974-87	233217		
40136685006	**GP3 @ 2-4**	ASTM D2974-87	233217		
40136685007	**GP3 @ 14-15**	ASTM D2974-87	233217		
40136685008	**GP4 @ 2-4**	ASTM D2974-87	233217		
40136685009	**GP4 @ 14-15**	ASTM D2974-87	233217		
40136685010	**GP5 @ 2-4**	ASTM D2974-87	233217		
40136685011	**GP5 @ 9-10**	ASTM D2974-87	233217		
40136685012	**GP5 @ 19-20**	ASTM D2974-87	233226		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962 BURNETT OIL
Pace Project No.: 40136685

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40136685013	**GP6 @ 2-4**	ASTM D2974-87	233226		
40136685014	**GP6 @ 14-15**	ASTM D2974-87	233226		

4 (112) 40131085

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

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CHAIN OF CUSTODY

(Please Print Clearly)

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

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

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

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

Analyses Requested: PVOC/N, LEMO, PAH

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC/N	LEMO	PAH	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	GP1 @ 2-4	8/10/16	12:50	Soil	X	X	X	1-40ml VF	1-4oz ag A	
002	GP1 @ 6-7		12:55		X	X	X			
003	GP2 @ 2-3		1:45		X	X	X			
004	GP2 @ 8-9		1:55		X	X	X			
005	GP2 @ 14-15		2:10		X	X	X			
006	GP3 @ 2-4		3:00		X	X				
007	GP3 @ 14-15		3:20		X	X				
008	GP4 @ 2-4		4:00		X	X				
009	GP4 @ 14-15		4:15		X	X				
010	GP5 @ 2-4		4:30		X	X				
011	GP5 @ 9-10		4:45		X	X				
012	GP5 @ 19-20		5:00		X	X				
013	GP6 @ 2-4		5:15		X	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]	8/11/16 2:30		
Walter	8/12/16 0850	Susan Kuefler Pace	8/12/16 0850

PACE Project No. 40131085

Receipt Temp = ROT °C

Sample Receipt pH OK / Adjusted

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

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

(Please Print Clearly)	
Company Name:	REI
Branch/Location:	
Project Contact:	DAVID LARSEN
Phone:	715-675-9784
Project Number:	6962
Project Name:	Barnett 0.7
Project State:	WI
Sampled By (Print):	DAVID LARSEN
Sampled By (Sign):	
PO #:	PEPA WE
Regulatory Program:	

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

Page 1 of 2/2

CHAIN OF CUSTODY

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

Quote #:	
Mail To Contact:	
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				CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N				N			
					F	A				B			
					PVOC/N	Lead				PVOC/N			
014	GP6 @ 14-15	8/10/16	5:25	SO:1	X	X					1-40mlVF	1-4ozaag A	
015	GP2	8/11/16	9:00	GW						X	2-40mlVB		

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

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

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

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
	8/11/16 2:30		
	8-12-16 0850		8-12-16 0852

PACE Project No.: 40126085
Receipt Temp = ROT °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project #: **WO# : 40136685**

40136685

Client Name: REI

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Walk-on

Tracking #: 113029 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 N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

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

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 8-12-16
Initials:

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

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W+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:** 8-12-16

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

September 26, 2016

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

RE: Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138476001	**MW 91-1**	Water	09/14/16 13:00	09/17/16 08:00
40138476002	**MW 91-2A**	Water	09/14/16 15:55	09/17/16 08:00
40138476003	**MW 91-2B**	Water	09/14/16 16:00	09/17/16 08:00

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SAMPLE ANALYTE COUNT

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40138476001	**MW 91-1**	EPA 6010	DLB	1
		EPA 8260	LAP	64
40138476002	**MW 91-2A**	EPA 6010	DLB	1
		EPA 8270 by HVI	TPO	21
		EPA 8260	LAP	64
40138476003	**MW 91-2B**	EPA 6010	DLB	1
		EPA 8270 by HVI	TPO	21
		EPA 8260	LAP	64

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Sample: MW 91-1 **Lab ID: 40138476001** Collected: 09/14/16 13:00 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/20/16 17:16	7439-92-1	1q
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 11:59	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/21/16 11:59	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/21/16 11:59	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 11:59	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/21/16 11:59	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/21/16 11:59	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/21/16 11:59	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/21/16 11:59	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/21/16 11:59	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/21/16 11:59	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/21/16 11:59	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/21/16 11:59	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/21/16 11:59	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/21/16 11:59	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/21/16 11:59	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 11:59	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 11:59	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/21/16 11:59	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/21/16 11:59	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/21/16 11:59	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 11:59	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 11:59	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/21/16 11:59	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/21/16 11:59	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/21/16 11:59	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/21/16 11:59	91-20-3	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Sample: MW 91-1 **Lab ID: 40138476001** Collected: 09/14/16 13:00 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 11:59	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/21/16 11:59	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 11:59	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 11:59	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/21/16 11:59	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/21/16 11:59	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 11:59	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/21/16 11:59	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/21/16 11:59	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 11:59	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		09/21/16 11:59	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		09/21/16 11:59	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		09/21/16 11:59	2037-26-5	

Sample: MW 91-2A **Lab ID: 40138476002** Collected: 09/14/16 15:55 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/20/16 17:18	7439-92-1	1q
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0055**	ug/L	0.028	0.0055	1	09/20/16 08:31	09/22/16 13:33	83-32-9	
Acenaphthylene	**<0.0045**	ug/L	0.023	0.0045	1	09/20/16 08:31	09/22/16 13:33	208-96-8	
Anthracene	**<0.0095**	ug/L	0.048	0.0095	1	09/20/16 08:31	09/22/16 13:33	120-12-7	
Benzo(a)anthracene	**<0.0069**	ug/L	0.034	0.0069	1	09/20/16 08:31	09/22/16 13:33	56-55-3	
Benzo(a)pyrene	**<0.0096**	ug/L	0.048	0.0096	1	09/20/16 08:31	09/22/16 13:33	50-32-8	
Benzo(b)fluoranthene	**<0.0052**	ug/L	0.026	0.0052	1	09/20/16 08:31	09/22/16 13:33	205-99-2	
Benzo(g,h,i)perylene	**<0.0062**	ug/L	0.031	0.0062	1	09/20/16 08:31	09/22/16 13:33	191-24-2	
Benzo(k)fluoranthene	**<0.0069**	ug/L	0.034	0.0069	1	09/20/16 08:31	09/22/16 13:33	207-08-9	
Chrysene	**<0.012**	ug/L	0.059	0.012	1	09/20/16 08:31	09/22/16 13:33	218-01-9	
Dibenz(a,h)anthracene	**<0.0091**	ug/L	0.046	0.0091	1	09/20/16 08:31	09/22/16 13:33	53-70-3	
Fluoranthene	**<0.0097**	ug/L	0.048	0.0097	1	09/20/16 08:31	09/22/16 13:33	206-44-0	
Fluorene	**<0.0072**	ug/L	0.036	0.0072	1	09/20/16 08:31	09/22/16 13:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.080	0.016	1	09/20/16 08:31	09/22/16 13:33	193-39-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Sample: MW 91-2A **Lab ID: 40138476002** Collected: 09/14/16 15:55 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
1-Methylnaphthalene	**<0.0054**	ug/L	0.027	0.0054	1	09/20/16 08:31	09/22/16 13:33	90-12-0	
2-Methylnaphthalene	**<0.0045**	ug/L	0.022	0.0045	1	09/20/16 08:31	09/22/16 13:33	91-57-6	
Naphthalene	**<0.017**	ug/L	0.083	0.017	1	09/20/16 08:31	09/22/16 13:33	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.063	0.013	1	09/20/16 08:31	09/22/16 13:33	85-01-8	
Pyrene	**<0.0070**	ug/L	0.035	0.0070	1	09/20/16 08:31	09/22/16 13:33	129-00-0	
Total PAHs	**0.011**	ug/L			1	09/20/16 08:31	09/22/16 13:33		
Surrogates									
2-Fluorobiphenyl (S)	45	%	25-130		1	09/20/16 08:31	09/22/16 13:33	321-60-8	
Terphenyl-d14 (S)	83	%	13-158		1	09/20/16 08:31	09/22/16 13:33	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:21	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/21/16 12:21	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/21/16 12:21	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 12:21	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:21	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/21/16 12:21	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/21/16 12:21	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/21/16 12:21	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/21/16 12:21	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:21	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/21/16 12:21	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/21/16 12:21	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/21/16 12:21	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/21/16 12:21	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/21/16 12:21	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 12:21	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 12:21	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:21	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/21/16 12:21	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/21/16 12:21	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:21	10061-02-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Sample: MW 91-2A **Lab ID: 40138476002** Collected: 09/14/16 15:55 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 12:21	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/21/16 12:21	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:21	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/21/16 12:21	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/21/16 12:21	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:21	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/21/16 12:21	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 12:21	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 12:21	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/21/16 12:21	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/21/16 12:21	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:21	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:21	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/21/16 12:21	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:21	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		09/21/16 12:21	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		09/21/16 12:21	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/21/16 12:21	2037-26-5	

Sample: MW 91-2B **Lab ID: 40138476003** Collected: 09/14/16 16:00 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/20/16 17:21	7439-92-1	1q
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0071**	ug/L	0.036	0.0071	1	09/20/16 08:31	09/22/16 13:49	83-32-9	
Acenaphthylene	**<0.0059**	ug/L	0.029	0.0059	1	09/20/16 08:31	09/22/16 13:49	208-96-8	
Anthracene	**<0.012**	ug/L	0.061	0.012	1	09/20/16 08:31	09/22/16 13:49	120-12-7	
Benzo(a)anthracene	**<0.0089**	ug/L	0.044	0.0089	1	09/20/16 08:31	09/22/16 13:49	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.062	0.012	1	09/20/16 08:31	09/22/16 13:49	50-32-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Sample: MW 91-2B **Lab ID: 40138476003** Collected: 09/14/16 16:00 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Benzo(b)fluoranthene	**<0.0068**	ug/L	0.034	0.0068	1	09/20/16 08:31	09/22/16 13:49	205-99-2	
Benzo(g,h,i)perylene	**<0.0080**	ug/L	0.040	0.0080	1	09/20/16 08:31	09/22/16 13:49	191-24-2	
Benzo(k)fluoranthene	**<0.0089**	ug/L	0.044	0.0089	1	09/20/16 08:31	09/22/16 13:49	207-08-9	
Chrysene	**<0.015**	ug/L	0.077	0.015	1	09/20/16 08:31	09/22/16 13:49	218-01-9	
Dibenz(a,h)anthracene	**<0.012**	ug/L	0.059	0.012	1	09/20/16 08:31	09/22/16 13:49	53-70-3	
Fluoranthene	**<0.013**	ug/L	0.063	0.013	1	09/20/16 08:31	09/22/16 13:49	206-44-0	
Fluorene	**<0.0094**	ug/L	0.047	0.0094	1	09/20/16 08:31	09/22/16 13:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.021**	ug/L	0.10	0.021	1	09/20/16 08:31	09/22/16 13:49	193-39-5	
1-Methylnaphthalene	**<0.0069**	ug/L	0.035	0.0069	1	09/20/16 08:31	09/22/16 13:49	90-12-0	
2-Methylnaphthalene	**0.0091J**	ug/L	0.029	0.0058	1	09/20/16 08:31	09/22/16 13:49	91-57-6	
Naphthalene	**<0.022**	ug/L	0.11	0.022	1	09/20/16 08:31	09/22/16 13:49	91-20-3	
Phenanthrene	**<0.016**	ug/L	0.081	0.016	1	09/20/16 08:31	09/22/16 13:49	85-01-8	
Pyrene	**<0.0090**	ug/L	0.045	0.0090	1	09/20/16 08:31	09/22/16 13:49	129-00-0	
Total PAHs	**0.047**	ug/L			1	09/20/16 08:31	09/22/16 13:49		
Surrogates									
2-Fluorobiphenyl (S)	52	%	25-130		1	09/20/16 08:31	09/22/16 13:49	321-60-8	
Terphenyl-d14 (S)	90	%	13-158		1	09/20/16 08:31	09/22/16 13:49	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:43	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/21/16 12:43	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/21/16 12:43	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 12:43	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:43	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/21/16 12:43	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/21/16 12:43	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/21/16 12:43	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/21/16 12:43	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:43	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/21/16 12:43	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/21/16 12:43	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/21/16 12:43	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/21/16 12:43	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/21/16 12:43	75-35-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Sample: MW 91-2B **Lab ID: 40138476003** Collected: 09/14/16 16:00 Received: 09/17/16 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 12:43	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/21/16 12:43	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:43	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/21/16 12:43	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/21/16 12:43	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:43	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 12:43	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/21/16 12:43	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/21/16 12:43	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/21/16 12:43	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/21/16 12:43	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:43	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/21/16 12:43	79-34-5	
Tetrachloroethene	**1.1**	ug/L	1.0	0.50	1		09/21/16 12:43	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/21/16 12:43	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/21/16 12:43	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/21/16 12:43	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/21/16 12:43	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:43	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/21/16 12:43	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/21/16 12:43	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/21/16 12:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		09/21/16 12:43	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		09/21/16 12:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		09/21/16 12:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

QC Batch: 235462 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40138476001, 40138476002, 40138476003

METHOD BLANK: 1395480 Matrix: Water
Associated Lab Samples: 40138476001, 40138476002, 40138476003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<3.0	12.0	09/20/16 16:41	

LABORATORY CONTROL SAMPLE: 1395481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	457	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395482 1395483

Parameter	Units	40138373001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	<3.0	500	500	451	452	90	90	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

QC Batch: 235352 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40138476001, 40138476002, 40138476003

METHOD BLANK: 1394994 Matrix: Water
Associated Lab Samples: 40138476001, 40138476002, 40138476003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	09/21/16 06:53	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/21/16 06:53	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/21/16 06:53	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/21/16 06:53	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/21/16 06:53	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/21/16 06:53	
1,1-Dichloropropene	ug/L	<0.44	1.0	09/21/16 06:53	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	09/21/16 06:53	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	09/21/16 06:53	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	09/21/16 06:53	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	09/21/16 06:53	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	09/21/16 06:53	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/21/16 06:53	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/21/16 06:53	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
1,3-Dichloropropane	ug/L	<0.50	1.0	09/21/16 06:53	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
2,2-Dichloropropane	ug/L	<0.48	1.0	09/21/16 06:53	
2-Chlorotoluene	ug/L	<0.50	1.0	09/21/16 06:53	
4-Chlorotoluene	ug/L	<0.21	1.0	09/21/16 06:53	
Benzene	ug/L	<0.50	1.0	09/21/16 06:53	
Bromobenzene	ug/L	<0.23	1.0	09/21/16 06:53	
Bromochloromethane	ug/L	<0.34	1.0	09/21/16 06:53	
Bromodichloromethane	ug/L	<0.50	1.0	09/21/16 06:53	
Bromoform	ug/L	<0.50	1.0	09/21/16 06:53	
Bromomethane	ug/L	<2.4	5.0	09/21/16 06:53	
Carbon tetrachloride	ug/L	<0.50	1.0	09/21/16 06:53	
Chlorobenzene	ug/L	<0.50	1.0	09/21/16 06:53	
Chloroethane	ug/L	<0.37	1.0	09/21/16 06:53	
Chloroform	ug/L	<2.5	5.0	09/21/16 06:53	
Chloromethane	ug/L	<0.50	1.0	09/21/16 06:53	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 06:53	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/21/16 06:53	
Dibromochloromethane	ug/L	<0.50	1.0	09/21/16 06:53	
Dibromomethane	ug/L	<0.43	1.0	09/21/16 06:53	
Dichlorodifluoromethane	ug/L	<0.22	1.0	09/21/16 06:53	
Diisopropyl ether	ug/L	<0.50	1.0	09/21/16 06:53	
Ethylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

METHOD BLANK: 1394994 Matrix: Water
Associated Lab Samples: 40138476001, 40138476002, 40138476003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	09/21/16 06:53	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	09/21/16 06:53	
m&p-Xylene	ug/L	<1.0	2.0	09/21/16 06:53	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	09/21/16 06:53	
Methylene Chloride	ug/L	<0.23	1.0	09/21/16 06:53	
n-Butylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
n-Propylbenzene	ug/L	<0.50	1.0	09/21/16 06:53	
Naphthalene	ug/L	<2.5	5.0	09/21/16 06:53	
o-Xylene	ug/L	<0.50	1.0	09/21/16 06:53	
p-Isopropyltoluene	ug/L	<0.50	1.0	09/21/16 06:53	
sec-Butylbenzene	ug/L	<2.2	5.0	09/21/16 06:53	
Styrene	ug/L	<0.50	1.0	09/21/16 06:53	
tert-Butylbenzene	ug/L	<0.18	1.0	09/21/16 06:53	
Tetrachloroethene	ug/L	<0.50	1.0	09/21/16 06:53	
Toluene	ug/L	<0.50	1.0	09/21/16 06:53	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/21/16 06:53	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/21/16 06:53	
Trichloroethene	ug/L	<0.33	1.0	09/21/16 06:53	
Trichlorofluoromethane	ug/L	<0.18	1.0	09/21/16 06:53	
Vinyl chloride	ug/L	<0.18	1.0	09/21/16 06:53	
4-Bromofluorobenzene (S)	%	88	70-130	09/21/16 06:53	
Dibromofluoromethane (S)	%	101	70-130	09/21/16 06:53	
Toluene-d8 (S)	%	99	70-130	09/21/16 06:53	

LABORATORY CONTROL SAMPLE: 1394995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.4	101	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	52.6	105	67-130	
1,1,2-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethane	ug/L	50	49.1	98	70-133	
1,1-Dichloroethene	ug/L	50	44.4	89	70-130	
1,2,4-Trichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.7	103	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	50.8	102	70-130	
1,2-Dichlorobenzene	ug/L	50	51.7	103	70-130	
1,2-Dichloroethane	ug/L	50	50.1	100	70-130	
1,2-Dichloropropane	ug/L	50	49.7	99	70-130	
1,3-Dichlorobenzene	ug/L	50	52.2	104	70-130	
1,4-Dichlorobenzene	ug/L	50	50.6	101	70-130	
Benzene	ug/L	50	52.9	106	60-135	
Bromodichloromethane	ug/L	50	52.0	104	70-130	
Bromoform	ug/L	50	45.4	91	70-130	
Bromomethane	ug/L	50	33.9	68	33-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

LABORATORY CONTROL SAMPLE: 1394995

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.5	105	70-138	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	37.6	75	51-130	
Chloroform	ug/L	50	50.4	101	70-130	
Chloromethane	ug/L	50	33.7	67	25-132	
cis-1,2-Dichloroethene	ug/L	50	47.5	95	69-130	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	70-130	
Dibromochloromethane	ug/L	50	51.0	102	70-130	
Dichlorodifluoromethane	ug/L	50	32.0	64	23-130	
Ethylbenzene	ug/L	50	53.4	107	70-136	
Isopropylbenzene (Cumene)	ug/L	50	53.8	108	70-140	
m&p-Xylene	ug/L	100	107	107	70-138	
Methyl-tert-butyl ether	ug/L	50	47.5	95	66-138	
Methylene Chloride	ug/L	50	46.7	93	70-130	
o-Xylene	ug/L	50	51.7	103	70-134	
Styrene	ug/L	50	50.5	101	70-133	
Tetrachloroethene	ug/L	50	51.2	102	70-138	
Toluene	ug/L	50	51.6	103	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.2	96	70-131	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	69-130	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	47.2	94	50-150	
Vinyl chloride	ug/L	50	43.1	86	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396013 1396014

Parameter	Units	40138476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	49.5	49.3	99	99	70-134	0	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	48.3	52.8	97	106	67-130	9	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	48.6	49.2	97	98	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	47.5	48.1	95	96	70-134	1	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	43.4	42.8	87	86	68-136	1	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.8	49.3	94	99	62-139	5	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	47.4	50.6	95	101	50-150	7	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	49.0	50.3	98	101	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.7	51.9	97	104	70-130	6	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	48.0	49.4	96	99	70-130	3	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	48.4	49.0	97	98	70-130	1	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.3	51.3	101	103	70-131	2	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.6	50.1	95	100	70-130	5	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1396013 1396014

Parameter	Units	40138476001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	51.7	51.8	103	104	57-138	0	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.9	51.2	100	102	70-130	3	20	
Bromoform	ug/L	<0.50	50	50	45.5	45.7	91	91	70-130	1	20	
Bromomethane	ug/L	<2.4	50	50	34.1	34.1	68	68	33-130	0	27	
Carbon tetrachloride	ug/L	<0.50	50	50	50.5	52.5	101	105	70-138	4	20	
Chlorobenzene	ug/L	<0.50	50	50	50.7	51.4	101	103	70-130	1	20	
Chloroethane	ug/L	<0.37	50	50	36.0	36.9	72	74	51-130	2	20	
Chloroform	ug/L	<2.5	50	50	49.7	50.5	99	101	70-130	2	20	
Chloromethane	ug/L	<0.50	50	50	32.5	32.0	65	64	25-132	1	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	46.7	46.9	93	94	61-140	1	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	47.8	49.2	96	98	70-130	3	20	
Dibromochloromethane	ug/L	<0.50	50	50	49.2	51.3	98	103	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	29.7	29.9	59	60	23-130	1	20	
Ethylbenzene	ug/L	<0.50	50	50	52.2	52.5	104	105	70-138	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	52.2	53.1	104	106	70-152	2	20	
m&p-Xylene	ug/L	<1.0	100	100	105	106	105	106	70-140	2	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.7	47.0	93	94	66-139	1	20	
Methylene Chloride	ug/L	<0.23	50	50	45.3	46.3	91	93	70-130	2	20	
o-Xylene	ug/L	<0.50	50	50	50.5	51.7	101	103	70-134	3	20	
Styrene	ug/L	<0.50	50	50	49.2	50.4	98	101	70-138	2	20	
Tetrachloroethene	ug/L	<0.50	50	50	49.7	48.9	99	98	70-148	2	20	
Toluene	ug/L	<0.50	50	50	49.6	50.7	99	101	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	47.2	46.6	94	93	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	48.4	48.9	97	98	69-130	1	20	
Trichloroethene	ug/L	<0.33	50	50	50.9	50.4	102	101	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	46.7	47.2	93	94	50-150	1	20	
Vinyl chloride	ug/L	<0.18	50	50	42.8	41.4	86	83	49-133	3	20	
4-Bromofluorobenzene (S)	%						99	96	70-130			
Dibromofluoromethane (S)	%						101	101	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

QC Batch: 235381 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40138476002, 40138476003

METHOD BLANK: 1395073 Matrix: Water
Associated Lab Samples: 40138476002, 40138476003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	09/20/16 11:46	
2-Methylnaphthalene	ug/L	<0.0028	0.050	09/20/16 11:46	
Acenaphthene	ug/L	<0.0050	0.050	09/20/16 11:46	
Acenaphthylene	ug/L	<0.0049	0.050	09/20/16 11:46	
Anthracene	ug/L	<0.0040	0.050	09/20/16 11:46	
Benzo(a)anthracene	ug/L	<0.0051	0.050	09/20/16 11:46	
Benzo(a)pyrene	ug/L	<0.0044	0.050	09/20/16 11:46	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	09/20/16 11:46	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	09/20/16 11:46	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	09/20/16 11:46	
Chrysene	ug/L	<0.0042	0.050	09/20/16 11:46	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	09/20/16 11:46	
Fluoranthene	ug/L	<0.0094	0.050	09/20/16 11:46	
Fluorene	ug/L	<0.0040	0.050	09/20/16 11:46	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	09/20/16 11:46	
Naphthalene	ug/L	<0.0045	0.050	09/20/16 11:46	
Phenanthrene	ug/L	<0.0077	0.050	09/20/16 11:46	
Pyrene	ug/L	<0.0077	0.050	09/20/16 11:46	
Total PAHs	ug/L	0.018		09/20/16 11:46	
2-Fluorobiphenyl (S)	%	53	25-130	09/20/16 11:46	
Terphenyl-d14 (S)	%	98	13-158	09/20/16 11:46	

LABORATORY CONTROL SAMPLE & LCSD: 1395074 1395075

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	0.96	1.2	48	58	35-130	18	36	
2-Methylnaphthalene	ug/L	2	0.98	1.2	49	59	36-130	19	37	
Acenaphthene	ug/L	2	0.88	1.0	44	51	41-130	14	32	
Acenaphthylene	ug/L	2	0.82	0.94	41	47	41-130	14	32	
Anthracene	ug/L	2	1.2	1.2	61	62	38-130	2	28	
Benzo(a)anthracene	ug/L	2	1.4	1.3	69	66	49-130	4	27	
Benzo(a)pyrene	ug/L	2	1.6	1.5	78	77	69-143	1	26	
Benzo(b)fluoranthene	ug/L	2	1.6	1.5	79	76	63-146	4	28	
Benzo(g,h,i)perylene	ug/L	2	0.97	0.87	48	44	10-145	10	37	
Benzo(k)fluoranthene	ug/L	2	1.7	1.5	83	77	64-152	7	28	
Chrysene	ug/L	2	1.7	1.7	87	87	64-156	0	26	
Dibenz(a,h)anthracene	ug/L	2	0.97	0.84	48	42	10-143	14	39	
Fluoranthene	ug/L	2	1.4	1.2	69	62	54-134	11	23	
Fluorene	ug/L	2	0.91	1.0	46	50	44-130	10	33	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	1.4	75	71	39-140	6	26	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

LABORATORY CONTROL SAMPLE & LCSD: 1395074 1395075

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	2	0.97	1.2	48	59	35-130	19	39	
Phenanthrene	ug/L	2	1.3	1.3	63	63	51-130	0	29	
Pyrene	ug/L	2	1.5	1.4	75	68	61-140	9	24	
Total PAHs	ug/L		22.2	22.4				1		
2-Fluorobiphenyl (S)	%				45	53	25-130			
Terphenyl-d14 (S)	%				92	90	13-158			

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
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QUALIFIERS

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

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.

BATCH QUALIFIERS

Batch: 235455

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1q Analyte was measured in the associated method blank at a concentration of -3.6 ug/L.

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

Project: 6962 AXUC BARRETT OIL
Pace Project No.: 40138476

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138476001	**MW 91-1**	EPA 6010	235462		
40138476002	**MW 91-2A**	EPA 6010	235462		
40138476003	**MW 91-2B**	EPA 6010	235462		
40138476002	**MW 91-2A**	EPA 3510	235381	EPA 8270 by HVI	235455
40138476003	**MW 91-2B**	EPA 3510	235381	EPA 8270 by HVI	235455
40138476001	**MW 91-1**	EPA 8260	235352		
40138476002	**MW 91-2A**	EPA 8260	235352		
40138476003	**MW 91-2B**	EPA 8260	235352		

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

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CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	RET
Branch/Location:	
Project Contact:	DAVID CARLSEN
Phone:	715-675-9704
Project Number:	60962 Axle
Project Name:	~~test~~ Burnett Oil
Project State:	WI
Sampled By (Print):	DAVID CARLSEN
Sampled By (Sign):	
PO #:	
Regulatory Program:	RECRA

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

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested: VOC	PAH	Dissolved Lead	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N	Pick Letter	N	N	Y			
							B	A	D			
001	MW 91-1	9-14-16	1:00	GW			X	X	X		3-40mlVB 1-250mlP 2-1000mlAGP	
002	MW91-2A	"	3:55	"			X	X	X			
003	MW91-2B	"	4:00	"			X	X	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]	9/16 18:30		
Waltco	9/17/16 0800	[signature] pace	9/17/16 0800

PACE Project No.
40138476

Receipt Temp = ROI °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: REI

Project #: **WO#: 40138476**

40138476

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

Tracking #: 1159704-2

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: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 9/17/16
Initials: BB

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

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☑Yes ☐No ☐N/A	6.
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. 001-003 ID have no MW - on all sample labels vials. mm 9/17/16
-Includes date/time/ID/Analysis Matrix: 9/7/16 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 BV 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: Client crossed out request for Patt analysis for 001 on COC BH 9/17/16

Project Manager Review: **Date:** 9-19-16

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

September 26, 2016

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

RE: Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138481001	**MW1 @ 2-4**	Solid	09/14/16 11:25	09/17/16 08:00
40138481002	**MW1 @ 14-16**	Solid	09/14/16 12:10	09/17/16 08:00
40138481003	**MW1 @ 26-28**	Solid	09/14/16 12:40	09/17/16 08:00
40138481004	**MW4 @ 2-4**	Solid	09/15/16 07:50	09/17/16 08:00
40138481005	**MW4 @ 12-14**	Solid	09/15/16 08:20	09/17/16 08:00
40138481006	**MW4 @ 24-26**	Solid	09/15/16 09:00	09/17/16 08:00

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SAMPLE ANALYTE COUNT

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40138481001	**MW1 @ 2-4**	WI MOD GRO	ALD	10
		EPA 6010	DLB	1
		ASTM D2974-87	MAV	1
40138481002	**MW1 @ 14-16**	WI MOD GRO	ALD	10
		EPA 6010	DLB	1
		ASTM D2974-87	MAV	1
40138481003	**MW1 @ 26-28**	WI MOD GRO	ALD	10
		EPA 6010	DLB	1
		ASTM D2974-87	MAV	1
40138481004	**MW4 @ 2-4**	WI MOD GRO	ALD	10
		EPA 6010	DLB	1
		ASTM D2974-87	MAV	1
40138481005	**MW4 @ 12-14**	WI MOD GRO	ALD	10
		EPA 6010	DLB	1
		ASTM D2974-87	MAV	1
40138481006	**MW4 @ 24-26**	WI MOD GRO	ALD	10
		EPA 6010	DLB	1
		ASTM D2974-87	MAV	1

REPORT OF LABORATORY ANALYSIS

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

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Sample: MW1 @ 2-4 **Lab ID: 40138481001** Collected: 09/14/16 11:25 Received: 09/17/16 08:00 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	09/22/16 07:34	09/22/16 19:39	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/22/16 07:34	09/22/16 19:39	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 19:39	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	09/22/16 07:34	09/22/16 19:39	98-08-8	1q,P4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**2.8**	mg/kg	1.2	0.45	1	09/20/16 10:31	09/20/16 21:43	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.1**	%	0.10	0.10	1		09/22/16 16:10		

Sample: MW1 @ 14-16 **Lab ID: 40138481002** Collected: 09/14/16 12:10 Received: 09/17/16 08:00 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	09/22/16 07:34	09/22/16 11:51	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/22/16 07:34	09/22/16 11:51	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 11:51	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	09/22/16 07:34	09/22/16 11:51	98-08-8	1q,P4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.57J**	mg/kg	1.2	0.45	1	09/20/16 10:31	09/20/16 21:49	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.7**	%	0.10	0.10	1		09/22/16 16:10		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Sample: MW1 @ 26-28 **Lab ID: 40138481003** Collected: 09/14/16 12:40 Received: 09/17/16 08:00 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	09/22/16 07:34	09/22/16 12:17	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/22/16 07:34	09/22/16 12:17	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:17	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	09/22/16 07:34	09/22/16 12:17	98-08-8	1q,P4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**0.94J**	mg/kg	1.1	0.41	1	09/20/16 10:31	09/20/16 21:52	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.4**	%	0.10	0.10	1		09/22/16 16:10		

Sample: MW4 @ 2-4 **Lab ID: 40138481004** Collected: 09/15/16 07:50 Received: 09/17/16 08:00 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	**2560J**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	71-43-2	
Ethylbenzene	**13100**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	100-41-4	
Methyl-tert-butyl ether	**<1000**	ug/kg	2400	1000	40	09/22/16 07:34	09/22/16 17:31	1634-04-4	W
Naphthalene	**53500**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	91-20-3	
Toluene	**2510J**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	108-88-3	
1,2,4-Trimethylbenzene	**128000**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	95-63-6	
1,3,5-Trimethylbenzene	**52500**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	108-67-8	
m&p-Xylene	**78400**	ug/kg	5390	2240	40	09/22/16 07:34	09/22/16 17:31	179601-23-1	
o-Xylene	**58300**	ug/kg	2690	1120	40	09/22/16 07:34	09/22/16 17:31	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	109	%	80-120		40	09/22/16 07:34	09/22/16 17:31	98-08-8	1q,D3, P4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**25.6**	mg/kg	1.1	0.41	1	09/20/16 10:31	09/20/16 21:54	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.9**	%	0.10	0.10	1		09/22/16 16:10		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Sample: MW4 @ 12-14 **Lab ID: 40138481005** Collected: 09/15/16 08:20 Received: 09/17/16 08:00 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	09/22/16 07:34	09/22/16 12:43	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/22/16 07:34	09/22/16 12:43	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 12:43	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	09/22/16 07:34	09/22/16 12:43	98-08-8	1q,P4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.9**	mg/kg	1.2	0.43	1	09/20/16 10:31	09/20/16 21:56	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.1**	%	0.10	0.10	1		09/22/16 16:10		

Sample: MW4 @ 24-26 **Lab ID: 40138481006** Collected: 09/15/16 09:00 Received: 09/17/16 08:00 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	09/22/16 07:34	09/22/16 20:05	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	09/22/16 07:34	09/22/16 20:05	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	09/22/16 07:34	09/22/16 20:05	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	09/22/16 07:34	09/22/16 20:05	98-08-8	P4
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	**1.1J**	mg/kg	1.3	0.45	1	09/20/16 10:31	09/20/16 21:58	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.5**	%	0.10	0.10	1		09/22/16 16:10		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

QC Batch: 235708 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40138481001, 40138481002, 40138481003, 40138481004, 40138481005, 40138481006

METHOD BLANK: 1397417 Matrix: Solid
Associated Lab Samples: 40138481001, 40138481002, 40138481003, 40138481004, 40138481005, 40138481006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	09/22/16 08:23	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	09/22/16 08:23	
Benzene	ug/kg	<25.0	50.0	09/22/16 08:23	
Ethylbenzene	ug/kg	<25.0	50.0	09/22/16 08:23	
m&p-Xylene	ug/kg	<50.0	100	09/22/16 08:23	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	09/22/16 08:23	
Naphthalene	ug/kg	<25.0	50.0	09/22/16 08:23	
o-Xylene	ug/kg	<25.0	50.0	09/22/16 08:23	
Toluene	ug/kg	<25.0	50.0	09/22/16 08:23	
a,a,a-Trifluorotoluene (S)	%	99	80-120	09/22/16 08:23	

LABORATORY CONTROL SAMPLE & LCSD: 1397418 1397419

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	915	960	91	96	80-120	5	20	
1,3,5-Trimethylbenzene	ug/kg	1000	906	948	91	95	80-120	5	20	
Benzene	ug/kg	1000	982	988	98	99	80-120	1	20	
Ethylbenzene	ug/kg	1000	952	979	95	98	80-120	3	20	
m&p-Xylene	ug/kg	2000	1890	1950	95	98	80-120	3	20	
Methyl-tert-butyl ether	ug/kg	1000	980	966	98	97	80-120	1	20	
Naphthalene	ug/kg	1000	882	910	88	91	80-120	3	20	
o-Xylene	ug/kg	1000	953	986	95	99	80-120	3	20	
Toluene	ug/kg	1000	972	982	97	98	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

QC Batch: 235403 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40138481001, 40138481002, 40138481003, 40138481004, 40138481005, 40138481006

METHOD BLANK: 1395179 Matrix: Solid
Associated Lab Samples: 40138481001, 40138481002, 40138481003, 40138481004, 40138481005, 40138481006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.43	1.2	09/20/16 21:04	

LABORATORY CONTROL SAMPLE: 1395180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	47.4	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1395181 1395182

Parameter	Units	40138466001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	10.7	59.7	59.4	60.7	62.0	84	86	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

QC Batch: 235860 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40138481001, 40138481002, 40138481003, 40138481004, 40138481005, 40138481006

SAMPLE DUPLICATE: 1398375

Parameter	Units	40138481002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	4.7	4.8	3	10	

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 AXUC BURNETT OIL
Pace Project No.: 40138481

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

1q	Results are from sample aliquot taken from a jar with head space and preserved with MeOH in the laboratory.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
W	Non-detect results are reported on a wet weight basis.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962 AXUC BURNETT OIL
Pace Project No.: 40138481

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138481001	**MW1 @ 2-4**	TPH GRO/PVOC WI ext.	235708	WI MOD GRO	235772
40138481002	**MW1 @ 14-16**	TPH GRO/PVOC WI ext.	235708	WI MOD GRO	235772
40138481003	**MW1 @ 26-28**	TPH GRO/PVOC WI ext.	235708	WI MOD GRO	235772
40138481004	**MW4 @ 2-4**	TPH GRO/PVOC WI ext.	235708	WI MOD GRO	235772
40138481005	**MW4 @ 12-14**	TPH GRO/PVOC WI ext.	235708	WI MOD GRO	235772
40138481006	**MW4 @ 24-26**	TPH GRO/PVOC WI ext.	235708	WI MOD GRO	235772
40138481001	**MW1 @ 2-4**	EPA 3050	235403	EPA 6010	235507
40138481002	**MW1 @ 14-16**	EPA 3050	235403	EPA 6010	235507
40138481003	**MW1 @ 26-28**	EPA 3050	235403	EPA 6010	235507
40138481004	**MW4 @ 2-4**	EPA 3050	235403	EPA 6010	235507
40138481005	**MW4 @ 12-14**	EPA 3050	235403	EPA 6010	235507
40138481006	**MW4 @ 24-26**	EPA 3050	235403	EPA 6010	235507
40138481001	**MW1 @ 2-4**	ASTM D2974-87	235860		
40138481002	**MW1 @ 14-16**	ASTM D2974-87	235860		
40138481003	**MW1 @ 26-28**	ASTM D2974-87	235860		
40138481004	**MW4 @ 2-4**	ASTM D2974-87	235860		
40138481005	**MW4 @ 12-14**	ASTM D2974-87	235860		
40138481006	**MW4 @ 24-26**	ASTM D2974-87	235860		

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

40138481

CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	KET
Branch/Location:	
Project Contact:	David Larsen
Phone:	715-675-9784
Project Number:	6962 Axtell
Project Name:	Burkett Oil
Project State:	WI
Sampled By (Print):	David Larsen
Sampled By (Sign):	
PO #:	Regulatory Program: PECFA

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: PVOC/N	Lead	Solids	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW1 @ ~~1-4~~ 2-4	9/14/16	11:25	Soil	N	F	X	X	X		1-4ozp^A 1-40mlv^F	
002	MW1 @ 14-16	"	12:10	"	N	F	X	X	X			
003	MW1 @ 26-28	"	12:40	"	N	F	X	X	X			
004	MW4 @ 2-4	9/15/16	7:50	"	N	F	X	X	X			
005	MW4 @ 12-14	"	8:20	"	N	F	X	X	X			
006	MW4 @ 24-26 ①	9/15/16	0900									

① added to COC by lab per Samples received BT 9/17/16

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:
	9/16 18:30		
Walco	9/17/16 0800	pace	9/17/16 0800

PACE Project No. 40138481
Receipt Temp = 8.0 I °C
Sample Receipt pH ~~OK / Adjusted~~
Cooler Custody Seal Present / ~~Not Present~~ Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: REI

Project #: **WO#: 40138481**

40138481

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

Tracking #: 1159704-2

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: ROI /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 9/17/16
Initials: BH

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

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: BAT 9/17/16	☐Yes ☑No ☐N/A	2. lab added COC to COC per samples received BH 9/17/16
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. 003 1-40mlvF no collect time/date BH 9/17/16
-Includes date/time/ID/Analysis Matrix: 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: 9-19-16

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
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October 04, 2016

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

RE: Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on September 23, 2016. 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
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Green Bay Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40138875001	**MW1**	Water	09/20/16 17:10	09/23/16 09:00
40138875002	**MW2**	Water	09/20/16 15:35	09/23/16 09:00
40138875003	**MW3**	Water	09/20/16 16:22	09/23/16 09:00
40138875004	**MW4**	Water	09/20/16 15:20	09/23/16 09:00
40138875005	**MW91-1**	Water	09/21/16 10:30	09/23/16 09:00

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SAMPLE ANALYTE COUNT

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40138875001	**MW1**	EPA 6010	DLB	1
		EPA 8270 by HVI	TPO	21
		EPA 8260	HNW	64
40138875002	**MW2**	EPA 6010	DLB	1
		EPA 8270 by HVI	TPO	21
		EPA 8260	HNW	64
40138875003	**MW3**	EPA 6010	DLB	1
		EPA 8270 by HVI	TPO	21
		EPA 8260	HNW	64
40138875004	**MW4**	EPA 6010	DLB	1
		EPA 8270 by HVI	TPO	21
		EPA 8260	HNW	64
40138875005	**MW91-1**	EPA 8270 by HVI	TPO	21

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ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW1 **Lab ID: 40138875001** Collected: 09/20/16 17:10 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/28/16 21:17	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.0060J**	ug/L	0.027	0.0055	1	09/24/16 07:15	09/26/16 20:55	83-32-9	
Acenaphthylene	**<0.0045**	ug/L	0.022	0.0045	1	09/24/16 07:15	09/26/16 20:55	208-96-8	
Anthracene	**<0.0094**	ug/L	0.047	0.0094	1	09/24/16 07:15	09/26/16 20:55	120-12-7	
Benzo(a)anthracene	**<0.0068**	ug/L	0.034	0.0068	1	09/24/16 07:15	09/26/16 20:55	56-55-3	
Benzo(a)pyrene	**<0.0095**	ug/L	0.047	0.0095	1	09/24/16 07:15	09/26/16 20:55	50-32-8	
Benzo(b)fluoranthene	**<0.0052**	ug/L	0.026	0.0052	1	09/24/16 07:15	09/26/16 20:55	205-99-2	
Benzo(g,h,i)perylene	**<0.0061**	ug/L	0.031	0.0061	1	09/24/16 07:15	09/26/16 20:55	191-24-2	
Benzo(k)fluoranthene	**<0.0068**	ug/L	0.034	0.0068	1	09/24/16 07:15	09/26/16 20:55	207-08-9	
Chrysene	**<0.012**	ug/L	0.059	0.012	1	09/24/16 07:15	09/26/16 20:55	218-01-9	
Dibenz(a,h)anthracene	**<0.0090**	ug/L	0.045	0.0090	1	09/24/16 07:15	09/26/16 20:55	53-70-3	
Fluoranthene	**<0.0096**	ug/L	0.048	0.0096	1	09/24/16 07:15	09/26/16 20:55	206-44-0	
Fluorene	**<0.0072**	ug/L	0.036	0.0072	1	09/24/16 07:15	09/26/16 20:55	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.079	0.016	1	09/24/16 07:15	09/26/16 20:55	193-39-5	
1-Methylnaphthalene	**0.040**	ug/L	0.027	0.0053	1	09/24/16 07:15	09/26/16 20:55	90-12-0	
2-Methylnaphthalene	**0.036**	ug/L	0.022	0.0044	1	09/24/16 07:15	09/26/16 20:55	91-57-6	
Naphthalene	**0.040J**	ug/L	0.083	0.017	1	09/24/16 07:15	09/26/16 20:55	91-20-3	
Phenanthrene	**<0.012**	ug/L	0.062	0.012	1	09/24/16 07:15	09/26/16 20:55	85-01-8	
Pyrene	**0.0089J**	ug/L	0.034	0.0069	1	09/24/16 07:15	09/26/16 20:55	129-00-0	B
Total PAHs	**0.16**	ug/L			1	09/24/16 07:15	09/26/16 20:55		
Surrogates									
2-Fluorobiphenyl (S)	47	%	25-130		1	09/24/16 07:15	09/26/16 20:55	321-60-8	
Terphenyl-d14 (S)	85	%	13-158		1	09/24/16 07:15	09/26/16 20:55	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:11	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/28/16 17:11	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/28/16 17:11	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:11	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:11	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/28/16 17:11	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/28/16 17:11	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/28/16 17:11	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:11	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:11	106-93-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW1 **Lab ID: 40138875001** Collected: 09/20/16 17:10 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/28/16 17:11	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/28/16 17:11	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/28/16 17:11	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/28/16 17:11	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/28/16 17:11	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 17:11	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 17:11	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:11	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/28/16 17:11	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/28/16 17:11	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:11	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 17:11	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/28/16 17:11	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:11	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/28/16 17:11	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/28/16 17:11	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:11	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/28/16 17:11	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 17:11	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:11	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/28/16 17:11	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/28/16 17:11	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:11	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:11	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/28/16 17:11	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:11	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		09/28/16 17:11	460-00-4	pH
Dibromofluoromethane (S)	106	%	70-130		1		09/28/16 17:11	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/28/16 17:11	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW2 **Lab ID: 40138875002** Collected: 09/20/16 15:35 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/28/16 21:19	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.0060J**	ug/L	0.028	0.0056	1	09/24/16 07:15	09/26/16 21:12	83-32-9	
Acenaphthylene	**0.028**	ug/L	0.023	0.0046	1	09/24/16 07:15	09/26/16 21:12	208-96-8	
Anthracene	**0.013J**	ug/L	0.048	0.0096	1	09/24/16 07:15	09/26/16 21:12	120-12-7	
Benzo(a)anthracene	**<0.0069**	ug/L	0.035	0.0069	1	09/24/16 07:15	09/26/16 21:12	56-55-3	
Benzo(a)pyrene	**0.026J**	ug/L	0.048	0.0097	1	09/24/16 07:15	09/26/16 21:12	50-32-8	
Benzo(b)fluoranthene	**0.029**	ug/L	0.026	0.0053	1	09/24/16 07:15	09/26/16 21:12	205-99-2	
Benzo(g,h,i)perylene	**0.016J**	ug/L	0.031	0.0062	1	09/24/16 07:15	09/26/16 21:12	191-24-2	
Benzo(k)fluoranthene	**0.014J**	ug/L	0.035	0.0069	1	09/24/16 07:15	09/26/16 21:12	207-08-9	
Chrysene	**0.041J**	ug/L	0.060	0.012	1	09/24/16 07:15	09/26/16 21:12	218-01-9	
Dibenz(a,h)anthracene	**<0.0092**	ug/L	0.046	0.0092	1	09/24/16 07:15	09/26/16 21:12	53-70-3	
Fluoranthene	**0.014J**	ug/L	0.049	0.0098	1	09/24/16 07:15	09/26/16 21:12	206-44-0	B
Fluorene	**<0.0073**	ug/L	0.037	0.0073	1	09/24/16 07:15	09/26/16 21:12	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.081	0.016	1	09/24/16 07:15	09/26/16 21:12	193-39-5	
1-Methylnaphthalene	**0.025J**	ug/L	0.027	0.0054	1	09/24/16 07:15	09/26/16 21:12	90-12-0	
2-Methylnaphthalene	**0.031**	ug/L	0.022	0.0045	1	09/24/16 07:15	09/26/16 21:12	91-57-6	
Naphthalene	**0.019J**	ug/L	0.084	0.017	1	09/24/16 07:15	09/26/16 21:12	91-20-3	
Phenanthrene	**0.031J**	ug/L	0.063	0.013	1	09/24/16 07:15	09/26/16 21:12	85-01-8	
Pyrene	**0.021J**	ug/L	0.035	0.0070	1	09/24/16 07:15	09/26/16 21:12	129-00-0	B
Total PAHs	**0.34**	ug/L			1	09/24/16 07:15	09/26/16 21:12		
Surrogates									
2-Fluorobiphenyl (S)	44	%	25-130		1	09/24/16 07:15	09/26/16 21:12	321-60-8	
Terphenyl-d14 (S)	79	%	13-158		1	09/24/16 07:15	09/26/16 21:12	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:33	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/28/16 17:33	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/28/16 17:33	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:33	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:33	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/28/16 17:33	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/28/16 17:33	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/28/16 17:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:33	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:33	106-93-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW2 **Lab ID: 40138875002** Collected: 09/20/16 15:35 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/28/16 17:33	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/28/16 17:33	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/28/16 17:33	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/28/16 17:33	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/28/16 17:33	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 17:33	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 17:33	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:33	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/28/16 17:33	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/28/16 17:33	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:33	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 17:33	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/28/16 17:33	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:33	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/28/16 17:33	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/28/16 17:33	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/28/16 17:33	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 17:33	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:33	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/28/16 17:33	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/28/16 17:33	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:33	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:33	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/28/16 17:33	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		09/28/16 17:33	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		09/28/16 17:33	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		09/28/16 17:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW3 **Lab ID: 40138875003** Collected: 09/20/16 16:22 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/28/16 21:22	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0056**	ug/L	0.028	0.0056	1	09/24/16 07:15	09/26/16 21:28	83-32-9	
Acenaphthylene	**<0.0046**	ug/L	0.023	0.0046	1	09/24/16 07:15	09/26/16 21:28	208-96-8	
Anthracene	**<0.0096**	ug/L	0.048	0.0096	1	09/24/16 07:15	09/26/16 21:28	120-12-7	
Benzo(a)anthracene	**<0.0069**	ug/L	0.035	0.0069	1	09/24/16 07:15	09/26/16 21:28	56-55-3	
Benzo(a)pyrene	**<0.0097**	ug/L	0.048	0.0097	1	09/24/16 07:15	09/26/16 21:28	50-32-8	
Benzo(b)fluoranthene	**<0.0053**	ug/L	0.026	0.0053	1	09/24/16 07:15	09/26/16 21:28	205-99-2	
Benzo(g,h,i)perylene	**<0.0062**	ug/L	0.031	0.0062	1	09/24/16 07:15	09/26/16 21:28	191-24-2	
Benzo(k)fluoranthene	**<0.0069**	ug/L	0.035	0.0069	1	09/24/16 07:15	09/26/16 21:28	207-08-9	
Chrysene	**<0.012**	ug/L	0.060	0.012	1	09/24/16 07:15	09/26/16 21:28	218-01-9	
Dibenz(a,h)anthracene	**<0.0092**	ug/L	0.046	0.0092	1	09/24/16 07:15	09/26/16 21:28	53-70-3	
Fluoranthene	**<0.0098**	ug/L	0.049	0.0098	1	09/24/16 07:15	09/26/16 21:28	206-44-0	
Fluorene	**<0.0073**	ug/L	0.037	0.0073	1	09/24/16 07:15	09/26/16 21:28	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.081	0.016	1	09/24/16 07:15	09/26/16 21:28	193-39-5	
1-Methylnaphthalene	**0.022J**	ug/L	0.027	0.0054	1	09/24/16 07:15	09/26/16 21:28	90-12-0	
2-Methylnaphthalene	**0.0049J**	ug/L	0.022	0.0045	1	09/24/16 07:15	09/26/16 21:28	91-57-6	
Naphthalene	**<0.017**	ug/L	0.084	0.017	1	09/24/16 07:15	09/26/16 21:28	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.063	0.013	1	09/24/16 07:15	09/26/16 21:28	85-01-8	
Pyrene	**<0.0070**	ug/L	0.035	0.0070	1	09/24/16 07:15	09/26/16 21:28	129-00-0	
Total PAHs	**0.051**	ug/L			1	09/24/16 07:15	09/26/16 21:28		
Surrogates									
2-Fluorobiphenyl (S)	44	%	25-130		1	09/24/16 07:15	09/26/16 21:28	321-60-8	
Terphenyl-d14 (S)	84	%	13-158		1	09/24/16 07:15	09/26/16 21:28	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:55	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/28/16 17:55	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/28/16 17:55	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:55	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:55	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/28/16 17:55	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/28/16 17:55	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/28/16 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:55	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:55	106-93-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW3 **Lab ID: 40138875003** Collected: 09/20/16 16:22 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/28/16 17:55	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/28/16 17:55	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/28/16 17:55	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/28/16 17:55	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/28/16 17:55	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 17:55	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 17:55	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:55	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/28/16 17:55	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/28/16 17:55	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:55	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 17:55	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		09/28/16 17:55	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/28/16 17:55	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/28/16 17:55	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		09/28/16 17:55	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:55	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/28/16 17:55	79-34-5	
Tetrachloroethene	**0.92J**	ug/L	1.0	0.50	1		09/28/16 17:55	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 17:55	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 17:55	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/28/16 17:55	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/28/16 17:55	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:55	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/28/16 17:55	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		09/28/16 17:55	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 17:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		09/28/16 17:55	460-00-4	pH
Dibromofluoromethane (S)	110	%	70-130		1		09/28/16 17:55	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/28/16 17:55	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW4 **Lab ID: 40138875004** Collected: 09/20/16 15:20 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Lead, Dissolved	**<3.0**	ug/L	12.0	3.0	1		09/28/16 21:24	7439-92-1	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**0.18**	ug/L	0.027	0.0055	1	09/24/16 07:15	09/26/16 19:33	83-32-9	
Acenaphthylene	**0.057**	ug/L	0.022	0.0045	1	09/24/16 07:15	09/26/16 19:33	208-96-8	
Anthracene	**0.045J**	ug/L	0.047	0.0094	1	09/24/16 07:15	09/26/16 19:33	120-12-7	
Benzo(a)anthracene	**<0.0068**	ug/L	0.034	0.0068	1	09/24/16 07:15	09/26/16 19:33	56-55-3	
Benzo(a)pyrene	**<0.0095**	ug/L	0.047	0.0095	1	09/24/16 07:15	09/26/16 19:33	50-32-8	
Benzo(b)fluoranthene	**<0.0052**	ug/L	0.026	0.0052	1	09/24/16 07:15	09/26/16 19:33	205-99-2	
Benzo(g,h,i)perylene	**<0.0061**	ug/L	0.031	0.0061	1	09/24/16 07:15	09/26/16 19:33	191-24-2	
Benzo(k)fluoranthene	**<0.0068**	ug/L	0.034	0.0068	1	09/24/16 07:15	09/26/16 19:33	207-08-9	
Chrysene	**<0.012**	ug/L	0.059	0.012	1	09/24/16 07:15	09/26/16 19:33	218-01-9	
Dibenz(a,h)anthracene	**<0.0090**	ug/L	0.045	0.0090	1	09/24/16 07:15	09/26/16 19:33	53-70-3	
Fluoranthene	**0.013J**	ug/L	0.048	0.0096	1	09/24/16 07:15	09/26/16 19:33	206-44-0	B
Fluorene	**0.47**	ug/L	0.036	0.0072	1	09/24/16 07:15	09/26/16 19:33	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.079	0.016	1	09/24/16 07:15	09/26/16 19:33	193-39-5	
1-Methylnaphthalene	**3.5**	ug/L	0.027	0.0053	1	09/24/16 07:15	09/26/16 19:33	90-12-0	
2-Methylnaphthalene	**4.1**	ug/L	0.022	0.0044	1	09/24/16 07:15	09/26/16 19:33	91-57-6	
Naphthalene	**2.7**	ug/L	0.083	0.017	1	09/24/16 07:15	09/26/16 19:33	91-20-3	
Phenanthrene	**0.59**	ug/L	0.062	0.012	1	09/24/16 07:15	09/26/16 19:33	85-01-8	
Pyrene	**0.041**	ug/L	0.034	0.0069	1	09/24/16 07:15	09/26/16 19:33	129-00-0	B
Total PAHs	**11.6**	ug/L			1	09/24/16 07:15	09/26/16 19:33		
Surrogates									
2-Fluorobiphenyl (S)	47	%	25-130		1	09/24/16 07:15	09/26/16 19:33	321-60-8	
Terphenyl-d14 (S)	66	%	13-158		1	09/24/16 07:15	09/26/16 19:33	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**0.69J**	ug/L	1.0	0.50	1		09/28/16 18:17	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 18:17	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		09/28/16 18:17	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		09/28/16 18:17	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 18:17	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		09/28/16 18:17	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		09/28/16 18:17	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		09/28/16 18:17	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		09/28/16 18:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		09/28/16 18:17	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		09/28/16 18:17	106-93-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW4 **Lab ID: 40138875004** Collected: 09/20/16 15:20 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		09/28/16 18:17	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		09/28/16 18:17	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/28/16 18:17	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		09/28/16 18:17	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		09/28/16 18:17	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 18:17	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/28/16 18:17	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		09/28/16 18:17	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		09/28/16 18:17	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		09/28/16 18:17	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		09/28/16 18:17	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	108-20-3	
Ethylbenzene	**1.6**	ug/L	1.0	0.50	1		09/28/16 18:17	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 18:17	87-68-3	
Isopropylbenzene (Cumene)	**0.24J**	ug/L	1.0	0.14	1		09/28/16 18:17	98-82-8	
p-Isopropyltoluene	**0.52J**	ug/L	1.0	0.50	1		09/28/16 18:17	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		09/28/16 18:17	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		09/28/16 18:17	1634-04-4	
Naphthalene	**4.3J**	ug/L	5.0	2.5	1		09/28/16 18:17	91-20-3	
n-Propylbenzene	**0.57J**	ug/L	1.0	0.50	1		09/28/16 18:17	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		09/28/16 18:17	79-34-5	
Tetrachloroethene	**0.95J**	ug/L	1.0	0.50	1		09/28/16 18:17	127-18-4	
Toluene	**1.6**	ug/L	1.0	0.50	1		09/28/16 18:17	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		09/28/16 18:17	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		09/28/16 18:17	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		09/28/16 18:17	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		09/28/16 18:17	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		09/28/16 18:17	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		09/28/16 18:17	96-18-4	
1,2,4-Trimethylbenzene	**22.6**	ug/L	1.0	0.50	1		09/28/16 18:17	95-63-6	
1,3,5-Trimethylbenzene	**9.5**	ug/L	1.0	0.50	1		09/28/16 18:17	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		09/28/16 18:17	75-01-4	
m&p-Xylene	**15.0**	ug/L	2.0	1.0	1		09/28/16 18:17	179601-23-1	
o-Xylene	**11.6**	ug/L	1.0	0.50	1		09/28/16 18:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		09/28/16 18:17	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		09/28/16 18:17	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/28/16 18:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Sample: MW91-1 **Lab ID: 40138875005** Collected: 09/21/16 10:30 Received: 09/23/16 09:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0057**	ug/L	0.029	0.0057	1	09/28/16 13:10	09/29/16 21:22	83-32-9	
Acenaphthylene	**<0.0047**	ug/L	0.023	0.0047	1	09/28/16 13:10	09/29/16 21:22	208-96-8	
Anthracene	**<0.0099**	ug/L	0.049	0.0099	1	09/28/16 13:10	09/29/16 21:22	120-12-7	
Benzo(a)anthracene	**<0.0071**	ug/L	0.036	0.0071	1	09/28/16 13:10	09/29/16 21:22	56-55-3	
Benzo(a)pyrene	**<0.0099**	ug/L	0.050	0.0099	1	09/28/16 13:10	09/29/16 21:22	50-32-8	
Benzo(b)fluoranthene	**<0.0054**	ug/L	0.027	0.0054	1	09/28/16 13:10	09/29/16 21:22	205-99-2	
Benzo(g,h,i)perylene	**<0.0064**	ug/L	0.032	0.0064	1	09/28/16 13:10	09/29/16 21:22	191-24-2	
Benzo(k)fluoranthene	**<0.0071**	ug/L	0.036	0.0071	1	09/28/16 13:10	09/29/16 21:22	207-08-9	
Chrysene	**<0.012**	ug/L	0.062	0.012	1	09/28/16 13:10	09/29/16 21:22	218-01-9	
Dibenz(a,h)anthracene	**<0.0095**	ug/L	0.047	0.0095	1	09/28/16 13:10	09/29/16 21:22	53-70-3	
Fluoranthene	**<0.010**	ug/L	0.050	0.010	1	09/28/16 13:10	09/29/16 21:22	206-44-0	
Fluorene	**<0.0075**	ug/L	0.038	0.0075	1	09/28/16 13:10	09/29/16 21:22	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.083	0.017	1	09/28/16 13:10	09/29/16 21:22	193-39-5	
1-Methylnaphthalene	**<0.0056**	ug/L	0.028	0.0056	1	09/28/16 13:10	09/29/16 21:22	90-12-0	
2-Methylnaphthalene	**<0.0046**	ug/L	0.023	0.0046	1	09/28/16 13:10	09/29/16 21:22	91-57-6	
Naphthalene	**<0.017**	ug/L	0.086	0.017	1	09/28/16 13:10	09/29/16 21:22	91-20-3	
Phenanthrene	**<0.013**	ug/L	0.065	0.013	1	09/28/16 13:10	09/29/16 21:22	85-01-8	
Pyrene	**<0.0072**	ug/L	0.036	0.0072	1	09/28/16 13:10	09/29/16 21:22	129-00-0	
Total PAHs	**0.0044**	ug/L			1	09/28/16 13:10	09/29/16 21:22		
Surrogates									
2-Fluorobiphenyl (S)	48	%	25-130		1	09/28/16 13:10	09/29/16 21:22	321-60-8	
Terphenyl-d14 (S)	52	%	13-158		1	09/28/16 13:10	09/29/16 21:22	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

QC Batch: 236420 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

METHOD BLANK: 1401500 Matrix: Water
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead, Dissolved	ug/L	<3.0	12.0	09/28/16 20:48	

LABORATORY CONTROL SAMPLE: 1401501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	474	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401502 1401503

Parameter	Units	40138869010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	3.9J	500	500	482	477	96	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

QC Batch: 236093 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

METHOD BLANK: 1400239 Matrix: Water
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	09/28/16 05:35	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/28/16 05:35	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/28/16 05:35	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/28/16 05:35	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/28/16 05:35	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/28/16 05:35	
1,1-Dichloropropene	ug/L	<0.44	1.0	09/28/16 05:35	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	09/28/16 05:35	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	09/28/16 05:35	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	09/28/16 05:35	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	09/28/16 05:35	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	09/28/16 05:35	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	09/28/16 05:35	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	09/28/16 05:35	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/28/16 05:35	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/28/16 05:35	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	09/28/16 05:35	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	09/28/16 05:35	
1,3-Dichloropropane	ug/L	<0.50	1.0	09/28/16 05:35	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/28/16 05:35	
2,2-Dichloropropane	ug/L	<0.48	1.0	09/28/16 05:35	
2-Chlorotoluene	ug/L	<0.50	1.0	09/28/16 05:35	
4-Chlorotoluene	ug/L	<0.21	1.0	09/28/16 05:35	
Benzene	ug/L	<0.50	1.0	09/28/16 05:35	
Bromobenzene	ug/L	<0.23	1.0	09/28/16 05:35	
Bromochloromethane	ug/L	<0.34	1.0	09/28/16 05:35	
Bromodichloromethane	ug/L	<0.50	1.0	09/28/16 05:35	
Bromoform	ug/L	<0.50	1.0	09/28/16 05:35	
Bromomethane	ug/L	<2.4	5.0	09/28/16 05:35	
Carbon tetrachloride	ug/L	<0.50	1.0	09/28/16 05:35	
Chlorobenzene	ug/L	<0.50	1.0	09/28/16 05:35	
Chloroethane	ug/L	<0.37	1.0	09/28/16 05:35	
Chloroform	ug/L	<2.5	5.0	09/28/16 05:35	
Chloromethane	ug/L	<0.50	1.0	09/28/16 05:35	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/28/16 05:35	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/28/16 05:35	
Dibromochloromethane	ug/L	<0.50	1.0	09/28/16 05:35	
Dibromomethane	ug/L	<0.43	1.0	09/28/16 05:35	
Dichlorodifluoromethane	ug/L	<0.22	1.0	09/28/16 05:35	
Diisopropyl ether	ug/L	<0.50	1.0	09/28/16 05:35	
Ethylbenzene	ug/L	<0.50	1.0	09/28/16 05:35	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

METHOD BLANK: 1400239 Matrix: Water
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	09/28/16 05:35	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	09/28/16 05:35	
m&p-Xylene	ug/L	<1.0	2.0	09/28/16 05:35	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	09/28/16 05:35	
Methylene Chloride	ug/L	<0.23	1.0	09/28/16 05:35	
n-Butylbenzene	ug/L	<0.50	1.0	09/28/16 05:35	
n-Propylbenzene	ug/L	<0.50	1.0	09/28/16 05:35	
Naphthalene	ug/L	<2.5	5.0	09/28/16 05:35	
o-Xylene	ug/L	<0.50	1.0	09/28/16 05:35	
p-Isopropyltoluene	ug/L	<0.50	1.0	09/28/16 05:35	
sec-Butylbenzene	ug/L	<2.2	5.0	09/28/16 05:35	
Styrene	ug/L	<0.50	1.0	09/28/16 05:35	
tert-Butylbenzene	ug/L	<0.18	1.0	09/28/16 05:35	
Tetrachloroethene	ug/L	<0.50	1.0	09/28/16 05:35	
Toluene	ug/L	<0.50	1.0	09/28/16 05:35	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/28/16 05:35	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/28/16 05:35	
Trichloroethene	ug/L	<0.33	1.0	09/28/16 05:35	
Trichlorofluoromethane	ug/L	<0.18	1.0	09/28/16 05:35	
Vinyl chloride	ug/L	<0.18	1.0	09/28/16 05:35	
4-Bromofluorobenzene (S)	%	89	70-130	09/28/16 05:35	
Dibromofluoromethane (S)	%	107	70-130	09/28/16 05:35	
Toluene-d8 (S)	%	103	70-130	09/28/16 05:35	

LABORATORY CONTROL SAMPLE: 1400240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	54.6	109	67-130	
1,1,2-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	55.9	112	70-133	
1,1-Dichloroethene	ug/L	50	43.2	86	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.6	91	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	51.7	103	70-130	
1,2-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,2-Dichloroethane	ug/L	50	61.2	122	70-130	
1,2-Dichloropropane	ug/L	50	58.4	117	70-130	
1,3-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.3	101	70-130	
Benzene	ug/L	50	60.3	121	60-135	
Bromodichloromethane	ug/L	50	59.0	118	70-130	
Bromoform	ug/L	50	46.0	92	70-130	
Bromomethane	ug/L	50	33.8	68	33-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

LABORATORY CONTROL SAMPLE: 1400240

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	49.8	100	70-138	
Chlorobenzene	ug/L	50	51.6	103	70-130	
Chloroethane	ug/L	50	43.9	88	51-130	
Chloroform	ug/L	50	57.0	114	70-130	
Chloromethane	ug/L	50	36.6	73	25-132	
cis-1,2-Dichloroethene	ug/L	50	49.3	99	69-130	
cis-1,3-Dichloropropene	ug/L	50	53.6	107	70-130	
Dibromochloromethane	ug/L	50	49.1	98	70-130	
Dichlorodifluoromethane	ug/L	50	41.5	83	23-130	
Ethylbenzene	ug/L	50	53.6	107	70-136	
Isopropylbenzene (Cumene)	ug/L	50	56.6	113	70-140	
m&p-Xylene	ug/L	100	114	114	70-138	
Methyl-tert-butyl ether	ug/L	50	55.7	111	66-138	
Methylene Chloride	ug/L	50	50.0	100	70-130	
o-Xylene	ug/L	50	53.8	108	70-134	
Styrene	ug/L	50	57.0	114	70-133	
Tetrachloroethene	ug/L	50	45.0	90	70-138	
Toluene	ug/L	50	52.3	105	70-130	
trans-1,2-Dichloroethene	ug/L	50	47.6	95	70-131	
trans-1,3-Dichloropropene	ug/L	50	52.5	105	69-130	
Trichloroethene	ug/L	50	53.4	107	70-130	
Trichlorofluoromethane	ug/L	50	48.0	96	50-150	
Vinyl chloride	ug/L	50	45.4	91	49-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401508 1401509

Parameter	Units	40138882003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.0	55.3	106	111	70-134	4	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	53.4	53.3	107	107	67-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	55.2	55.8	110	112	70-130	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	56.5	60.1	113	120	70-134	6	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	43.9	46.1	88	92	68-136	5	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	46.0	44.6	92	89	62-139	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	47.8	51.9	96	104	50-150	8	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.9	53.2	108	106	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	51.1	50.2	102	100	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	60.3	61.8	121	124	70-130	2	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	58.7	60.4	117	121	70-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	50.1	48.3	100	97	70-131	4	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	50.0	49.9	100	100	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401508 1401509

Parameter	Units	40138882003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	59.0	61.2	118	122	57-138	4	20	
Bromodichloromethane	ug/L	<0.50	50	50	57.2	58.6	114	117	70-130	3	20	
Bromoform	ug/L	<0.50	50	50	45.1	46.5	90	93	70-130	3	20	
Bromomethane	ug/L	<2.4	50	50	37.1	38.5	74	77	33-130	4	27	
Carbon tetrachloride	ug/L	<0.50	50	50	51.2	53.3	102	107	70-138	4	20	
Chlorobenzene	ug/L	<0.50	50	50	52.7	52.8	105	106	70-130	0	20	
Chloroethane	ug/L	<0.37	50	50	46.4	45.8	93	92	51-130	1	20	
Chloroform	ug/L	<2.5	50	50	58.7	58.3	117	117	70-130	1	20	
Chloromethane	ug/L	<0.50	50	50	36.6	38.0	73	76	25-132	4	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.7	51.7	101	103	61-140	2	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	55.4	57.9	111	116	70-130	4	20	
Dibromochloromethane	ug/L	<0.50	50	50	49.1	52.5	98	105	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	38.8	41.0	78	82	23-130	5	20	
Ethylbenzene	ug/L	<0.50	50	50	55.8	55.9	112	112	70-138	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	57.7	58.1	115	116	70-152	1	20	
m&p-Xylene	ug/L	<1.0	100	100	115	116	115	116	70-140	1	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	56.9	60.0	114	120	66-139	5	20	
Methylene Chloride	ug/L	<0.23	50	50	49.9	51.6	100	103	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	52.9	53.5	106	107	70-134	1	20	
Styrene	ug/L	<0.50	50	50	58.5	60.8	117	122	70-138	4	20	
Tetrachloroethene	ug/L	<0.50	50	50	48.0	49.5	96	99	70-148	3	20	
Toluene	ug/L	<0.50	50	50	52.8	53.9	106	108	70-130	2	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	49.1	50.8	98	102	70-133	4	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	51.9	53.2	104	106	69-130	2	20	
Trichloroethene	ug/L	<0.33	50	50	53.9	55.8	108	112	70-131	3	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	50.6	54.1	101	108	50-150	7	20	
Vinyl chloride	ug/L	<0.18	50	50	44.6	45.3	89	91	49-133	2	20	
4-Bromofluorobenzene (S)	%						99	96	70-130			
Dibromofluoromethane (S)	%						105	110	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

QC Batch: 236018 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

METHOD BLANK: 1399669 Matrix: Water
Associated Lab Samples: 40138875001, 40138875002, 40138875003, 40138875004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	09/26/16 10:46	
2-Methylnaphthalene	ug/L	<0.0049	0.024	09/26/16 10:46	
Acenaphthene	ug/L	<0.0061	0.030	09/26/16 10:46	
Acenaphthylene	ug/L	<0.0050	0.025	09/26/16 10:46	
Anthracene	ug/L	<0.010	0.052	09/26/16 10:46	
Benzo(a)anthracene	ug/L	<0.0076	0.038	09/26/16 10:46	
Benzo(a)pyrene	ug/L	<0.011	0.053	09/26/16 10:46	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	09/26/16 10:46	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	09/26/16 10:46	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	09/26/16 10:46	
Chrysene	ug/L	<0.013	0.065	09/26/16 10:46	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	09/26/16 10:46	
Fluoranthene	ug/L	0.012J	0.053	09/26/16 10:46	
Fluorene	ug/L	<0.0080	0.040	09/26/16 10:46	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	09/26/16 10:46	
Naphthalene	ug/L	<0.018	0.092	09/26/16 10:46	
Phenanthrene	ug/L	<0.014	0.069	09/26/16 10:46	
Pyrene	ug/L	0.022J	0.038	09/26/16 10:46	
Total PAHs	ug/L	0.046		09/26/16 10:46	
2-Fluorobiphenyl (S)	%	56	25-130	09/26/16 10:46	
Terphenyl-d14 (S)	%	97	13-158	09/26/16 10:46	

LABORATORY CONTROL SAMPLE & LCSD: 1399670 1399671

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.2	1.1	59	57	35-130	4	36	
2-Methylnaphthalene	ug/L	2	1.2	1.2	61	59	36-130	5	37	
Acenaphthene	ug/L	2	1.1	1.1	54	53	41-130	1	32	
Acenaphthylene	ug/L	2	1.0	1.0	50	50	41-130	0	32	
Anthracene	ug/L	2	1.4	1.4	70	69	38-130	2	28	
Benzo(a)anthracene	ug/L	2	1.4	1.3	68	64	49-130	5	27	
Benzo(a)pyrene	ug/L	2	1.6	1.5	78	73	69-143	6	26	
Benzo(b)fluoranthene	ug/L	2	1.4	1.3	69	66	63-146	5	28	
Benzo(g,h,i)perylene	ug/L	2	0.70	0.61	35	31	10-145	14	37	
Benzo(k)fluoranthene	ug/L	2	1.5	1.4	77	72	64-152	6	28	
Chrysene	ug/L	2	1.8	1.7	91	83	64-156	9	26	
Dibenz(a,h)anthracene	ug/L	2	0.51	0.56	25	28	10-143	10	39	
Fluoranthene	ug/L	2	1.5	1.4	73	70	54-134	4	23	
Fluorene	ug/L	2	1.1	1.1	53	54	44-130	1	33	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.2	1.2	62	59	39-140	4	26	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

LABORATORY CONTROL SAMPLE & LCSD: 1399670 1399671

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	2	1.2	1.2	61	58	35-130	5	39	
Phenanthrene	ug/L	2	1.4	1.3	71	67	51-130	5	29	
Pyrene	ug/L	2	1.5	1.4	75	68	61-140	10	24	
Total PAHs	ug/L		22.7	21.6				5		
2-Fluorobiphenyl (S)	%				54	55	25-130			
Terphenyl-d14 (S)	%				90	83	13-158			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

QC Batch: 236463
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40138875005

METHOD BLANK: 1401612 Matrix: Water
Associated Lab Samples: 40138875005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	09/29/16 10:49	
2-Methylnaphthalene	ug/L	<0.0049	0.024	09/29/16 10:49	
Acenaphthene	ug/L	<0.0061	0.030	09/29/16 10:49	
Acenaphthylene	ug/L	<0.0050	0.025	09/29/16 10:49	
Anthracene	ug/L	<0.010	0.052	09/29/16 10:49	
Benzo(a)anthracene	ug/L	<0.0076	0.038	09/29/16 10:49	
Benzo(a)pyrene	ug/L	<0.011	0.053	09/29/16 10:49	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	09/29/16 10:49	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	09/29/16 10:49	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	09/29/16 10:49	
Chrysene	ug/L	0.015J	0.065	09/29/16 10:49	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	09/29/16 10:49	
Fluoranthene	ug/L	<0.011	0.053	09/29/16 10:49	
Fluorene	ug/L	<0.0080	0.040	09/29/16 10:49	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	09/29/16 10:49	
Naphthalene	ug/L	<0.018	0.092	09/29/16 10:49	
Phenanthrene	ug/L	0.016J	0.069	09/29/16 10:49	
Pyrene	ug/L	0.028J	0.038	09/29/16 10:49	
Total PAHs	ug/L	0.078		09/29/16 10:49	
2-Fluorobiphenyl (S)	%	51	25-130	09/29/16 10:49	
Terphenyl-d14 (S)	%	85	13-158	09/29/16 10:49	

METHOD BLANK: 1401662 Matrix: Water
Associated Lab Samples: 40138875005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.020J	0.030	09/29/16 11:05	
2-Methylnaphthalene	ug/L	0.030	0.024	09/29/16 11:05	
Acenaphthene	ug/L	<0.0061	0.030	09/29/16 11:05	
Acenaphthylene	ug/L	<0.0050	0.025	09/29/16 11:05	
Anthracene	ug/L	<0.010	0.052	09/29/16 11:05	
Benzo(a)anthracene	ug/L	<0.0076	0.038	09/29/16 11:05	
Benzo(a)pyrene	ug/L	<0.011	0.053	09/29/16 11:05	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	09/29/16 11:05	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	09/29/16 11:05	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	09/29/16 11:05	
Chrysene	ug/L	<0.013	0.065	09/29/16 11:05	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	09/29/16 11:05	
Fluoranthene	ug/L	0.014J	0.053	09/29/16 11:05	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

METHOD BLANK: 1401662 Matrix: Water
Associated Lab Samples: 40138875005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Fluorene	ug/L	<0.0080	0.040	09/29/16 11:05	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	09/29/16 11:05	
Naphthalene	ug/L	0.093	0.092	09/29/16 11:05	
Phenanthrene	ug/L	<0.014	0.069	09/29/16 11:05	
Pyrene	ug/L	0.032J	0.038	09/29/16 11:05	
Total PAHs	ug/L	0.21		09/29/16 11:05	
2-Fluorobiphenyl (S)	%	53	25-130	09/29/16 11:05	
Terphenyl-d14 (S)	%	85	13-158	09/29/16 11:05	

LABORATORY CONTROL SAMPLE: 1401613

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.1	57	35-130	
2-Methylnaphthalene	ug/L	2	1.1	56	36-130	
Acenaphthene	ug/L	2	1.1	55	41-130	
Acenaphthylene	ug/L	2	1.0	50	41-130	
Anthracene	ug/L	2	1.4	71	38-130	
Benzo(a)anthracene	ug/L	2	1.4	70	49-130	
Benzo(a)pyrene	ug/L	2	1.6	81	69-143	
Benzo(b)fluoranthene	ug/L	2	1.6	79	63-146	
Benzo(g,h,i)perylene	ug/L	2	0.99	50	10-145	
Benzo(k)fluoranthene	ug/L	2	1.6	80	64-152	
Chrysene	ug/L	2	1.9	93	64-156	
Dibenz(a,h)anthracene	ug/L	2	0.91	46	10-143	
Fluoranthene	ug/L	2	1.5	74	54-134	
Fluorene	ug/L	2	1.1	55	44-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.6	78	39-140	
Naphthalene	ug/L	2	1.2	60	35-130	
Phenanthrene	ug/L	2	1.4	72	51-130	
Pyrene	ug/L	2	1.4	71	61-140	
Total PAHs	ug/L		23.9			
2-Fluorobiphenyl (S)	%			54	25-130	
Terphenyl-d14 (S)	%			91	13-158	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401614 1401615

Parameter	Units	40138817003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0058	2	2	1.1	1.1	56	56	16-130	1	30	
2-Methylnaphthalene	ug/L	<0.0049	2	2	1.1	1.2	57	59	33-130	3	30	
Acenaphthene	ug/L	<0.0060	2	2	1.1	1.1	56	54	29-130	4	27	
Acenaphthylene	ug/L	<0.0049	2	2	1.1	1.0	54	51	33-130	5	27	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1401614 1401615

Parameter	Units	40138817003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	ug/L	<0.010	2	2	1.3	1.4	64	69	26-130	7	31	
Benzo(a)anthracene	ug/L	<0.0075	2	2	1.3	1.3	66	63	27-130	5	36	
Benzo(a)pyrene	ug/L	<0.010	2	2	1.3	1.3	65	67	16-151	3	44	
Benzo(b)fluoranthene	ug/L	<0.0057	2	2	1.4	1.4	70	69	30-142	3	41	
Benzo(g,h,i)perylene	ug/L	<0.0067	2	2	0.68	0.77	34	38	10-130	12	50	
Benzo(k)fluoranthene	ug/L	<0.0075	2	2	1.6	1.5	80	73	24-152	8	41	
Chrysene	ug/L	<0.013	2	2	1.8	1.8	91	88	40-152	3	33	
Dibenz(a,h)anthracene	ug/L	<0.0099	2	2	0.66	0.77	33	38	10-130	14	50	
Fluoranthene	ug/L	0.015J	2	2	1.4	1.3	70	66	39-140	6	30	
Fluorene	ug/L	<0.0079	2	2	1.1	1.1	56	53	35-130	6	26	
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2	2	1.1	1.1	53	55	10-130	4	50	
Naphthalene	ug/L	<0.018	2	2	1.2	1.2	60	62	29-130	2	31	
Phenanthrene	ug/L	<0.014	2	2	1.4	1.4	68	70	48-130	2	25	
Pyrene	ug/L	0.024J	2	2	1.3	1.3	62	65	42-143	5	25	
Total PAHs	ug/L	0.055			22.0	22.0				0		
2-Fluorobiphenyl (S)	%						57	60	25-130			
Terphenyl-d14 (S)	%						82	85	13-158			

MATRIX SPIKE SAMPLE: 1401663

Parameter	Units	40138985007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	0.23	2	1.3	54	16-130	
2-Methylnaphthalene	ug/L	0.29	2	1.4	58	33-130	
Acenaphthene	ug/L	0.48	2	1.6	56	29-130	
Acenaphthylene	ug/L	<0.0050	2	1.1	53	33-130	
Anthracene	ug/L	<0.010	2	1.3	65	26-130	
Benzo(a)anthracene	ug/L	<0.0076	2	1.3	63	27-130	
Benzo(a)pyrene	ug/L	<0.011	2	1.4	71	16-151	
Benzo(b)fluoranthene	ug/L	<0.0057	2	1.4	68	30-142	
Benzo(g,h,i)perylene	ug/L	<0.0068	2	0.74	37	10-130	
Benzo(k)fluoranthene	ug/L	<0.0076	2	1.4	68	24-152	
Chrysene	ug/L	<0.013	2	1.6	82	40-152	
Dibenz(a,h)anthracene	ug/L	<0.010	2	0.69	34	10-130	
Fluoranthene	ug/L	<0.011	2	1.3	64	39-140	
Fluorene	ug/L	0.20	2	1.4	58	35-130	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	2	1.1	55	10-130	
Naphthalene	ug/L	0.79	2	2.0	62	29-130	
Phenanthrene	ug/L	0.025J	2	1.3	66	48-130	
Pyrene	ug/L	0.011J	2	1.3	63	42-143	
Total PAHs	ug/L	2.0		23.6			
2-Fluorobiphenyl (S)	%				57	25-130	
Terphenyl-d14 (S)	%				81	13-158	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

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.

BATCH QUALIFIERS

Batch: 236032

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962AXUC BURNETT OIL
Pace Project No.: 40138875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40138875001	**MW1**	EPA 6010	236420		
40138875002	**MW2**	EPA 6010	236420		
40138875003	**MW3**	EPA 6010	236420		
40138875004	**MW4**	EPA 6010	236420		
40138875001	**MW1**	EPA 3510	236018	EPA 8270 by HVI	236032
40138875002	**MW2**	EPA 3510	236018	EPA 8270 by HVI	236032
40138875003	**MW3**	EPA 3510	236018	EPA 8270 by HVI	236032
40138875004	**MW4**	EPA 3510	236018	EPA 8270 by HVI	236032
40138875005	**MW91-1**	EPA 3510	236463	EPA 8270 by HVI	236567
40138875001	**MW1**	EPA 8260	236093		
40138875002	**MW2**	EPA 8260	236093		
40138875003	**MW3**	EPA 8260	236093		
40138875004	**MW4**	EPA 8260	236093		

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

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

401388875

(Please Print Clearly)	
Company Name:	RET
Branch/Location:	
Project Contact:	David Larsen
Phone:	715-675-9764
Project Number:	6962 Azul
Project Name:	Burnett Oil
Project State:	WI
Sampled By (Print):	David Larsen
Sampled By (Sign):	
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
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: VOC	PAH	Dissolved Lead						CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B											
					N	A											
					Y	D											
001	MW1	9-21-16	5:10	GW			X	X	X						1-250 mlpO	3-40 mlVB	2-100mlag A
002	MW2		3:35				X	X	X								
003	MW3		4:22				X	X	X								
004	MW4		3:20				X	X	X								
005	MW91-1	~~9-21-16~~ 9-21-16	10:30					X	~~X~~	①							

① Changed per DL 9-23-16

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:
	9-22-16 @ 9:15		
Walco	9-23-16 0900	Susan Wyk Pace	9-23-16 0900

PACE Project No.: 401388875
Receipt Temp: ROT °C
Sample Receipt pH: (OK) Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

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

Client Name: RET

Project #: **WO# : 40138875**

40138875

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

Tracking #: 164965

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

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

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

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

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

Temp Blank Present: ☐ yes ☒ no

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

Person examining contents:
Date: 9-23-16
Initials: SW

		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. 9/23/16 SW
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. 001- No Collect time on sample. 004 - Collect time 0325 on sample. 9-23-16 SW
-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, 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 SW / 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:
Person Contacted: _____ Date/Time: _____
If checked, see attached form for additional comments ☐
Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 9-23-16