REI
CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

November 7, 2019

Wisconsin Department of Natural Resources
Attn: Ms. Carrie Stoltz
107 Sutliff Avenue
Rhinelander, WI 54501

Subject:

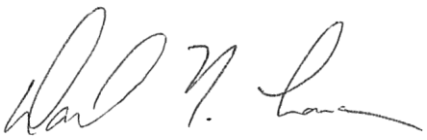
Soil Excavation Report
Burnett Oil Company
26504 Minnow Avenue
Webster, WI
BRRTS #02-07-282564
PECFA #54893-8024-14

Dear Ms. Stoltz:

Enclosed is the Soil Excavation Report for the above-mentioned site. REI has completed the approved soil excavation and abandoned the four (4) groundwater monitoring wells. REI is recommending that this investigation be directed to the WDNR case closure review process.

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.
Senior Hydrogeologist/Project Manager

Enclosure (A/S)

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

REI

CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Soil Excavation Report

Burnett Oil Company
26504 Minnow Avenue
Webster, Wisconsin

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

COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

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

PREPARED FOR:

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

NOVEMBER 2019

UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

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

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

"I, David N. Larsen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of Ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of Ch. GHSS 3, Wis. Admn. Code, and that to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.''

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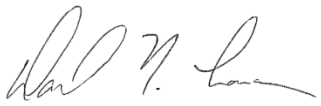

Hydrogeologist — November 7, 20019 Date

"I, Brian J. Bailey, 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 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."

Environmental Scientist — November 7, 20019 Date

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UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

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

1.0 INTRODUCTION

The Burnett Oil Company site is located in the NE ¼ of the SE ¼ of Section 08, Township 39 North, Range 16 West, in the Village of Webster, Burnett County, Wisconsin (Figure 1). The site address is 26504 Minnow Avenue, Webster, Wisconsin, 54893. Wisconsin Transverse Mercator (WTM) coordinates are 336177, 603362.

2.0 SITE BACKGROUND AND HISTORY

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. A site map documenting previous investigative site work is included in Figure 2.

3.0 SUMMARY OF WORK

3.1 Monitoring Well Abandonment

Prior to excavation, monitoring wells MW1, MW2, MW3, and MW4 were properly abandoned and filled with 3/8" bentonite chips. Abandonment forms are included in Appendix A.

3.2 Excavation and Removal of Contaminated Soils

On October 7-9, 2019, REI was on site to oversee the excavation of petroleum impacted soils from the former Burnett Oil Company site. The soil excavation was intended to remove the majority of the petroleum impacted soil identified at the site and reduce the potential for contaminant loading from the soil to the groundwater through source removal. DKS Construction Services, Inc. of Menomonie, WI was subcontracted to complete the excavation and hauling.

The soil excavation was completed to a maximum depth of approximately twelve (12) feet bls. The area of the completed soil excavation is presented in Figure 3. A total of 2,116.9 tons of petroleum impacted soil was removed from the site and hauled to the Republic Services Lake Area Landfill in Sarona, WI for final treatment and disposal. A copy of the landfill scale data documenting soil disposal is included in Appendix B. Photographs of the soil excavation are included in Appendix C.

The completed soil excavation was backfilled with granular material and compacted to a depth of approximately eight (8) inches bls. Gravel was used as final cover over the entire are of the soil excavation.

3.3 Confirmatory Soil Analytical Results

During the excavation activities, soil samples were field screened with a RAE photo ionization detector (PID) equipped with a 10.6 eV lamp for the presence of total organic vapors. PID results aided in determining the final extent and direction of the completed soil excavation. Thirty-four (34) soil samples were collected from the bottom and sidewalls of the excavation for field screening with the PID. A total of twenty-five (25) select soil samples were collected and analyzed for Petroleum Volatile Organic Compounds (PVOC's) and naphthalene at Pace Laboratories, Green Bay, Wisconsin. Table 1 summarizes the laboratory analytical results from the twenty-five (25) soil samples collected for laboratory analysis during the soil excavation activities. Table 2 presents a summary of PID screening results. Table 2 includes PID field screening results for both the confirmation soil sample (CSS) locations and stand-alone PID field screening locations (A-F) samples, along with sample collection depth.

Elevated soil contaminant concentrations, based on PID field screening, at sample locations CSS#11 and CSS#12 were removed during the excavation scope of services along with PID sample locations E, F and G. The soil laboratory analytical reports from the soil excavation are presented in Appendix D. Figure 3 documents the locations of the confirmatory soil samples taken during the excavation.

Following the completion of the soil excavation, no residual soil contamination concentrations remain in excess of the allowable NR 720 Non-Industrial Not to Exceed Direct Contact RCL. Soil sample CSS#17, collected at a depth of five (5) feet bls, did report concentrations greater than the NR 140 Groundwater Pathway Protection values established for petroleum compounds. Depth to groundwater at the site has historically been measured at a depth greater than thirty (30) feet bls. Groundwater analytical results from the monitoring well network has been non detect for all analyzed parameters. This suggests that the residual soil contamination has not and likely will not reach the water table.

4.0 CONCLUSION AND RECOMMENDATIONS

The former Burnett Oil Company site had significant levels of petroleum related soil contamination and no petroleum related groundwater contamination. The completed soil excavation was successful in removing the known areas of petroleum related soil contamination and eliminated the direct contact threat from the shallow soil contamination beneath the former Burnet Oil Company site. REI is recommending that this investigation be submitted to the WDNR for case closure review.

Table 1
Summary of Soil Analytical Results
Soil Excavation
Burnett Oil Company
Webster, Wisconsin

			Sample ID -->	CSS#1	CSS#2	CSS#3	CSS#4		CSS#5		CSS#6		CSS#7		CSS#8	
			Date -->	10/7/2019	10/7/2019	10/7/2019	10/7/2019		10/7/2019		10/7/2019		10/8/2019	10/7/2019	10/7/2019	10/8/2019
			Sample Depth -->	4	12	4	4	12	4	12	4	12	4	12	4	10
			Percent Moisture -->	10.1%	3.7%	3.3%	10.2%	5.3%	9.2%	7.6%	10.8%	4.5%	33.7%	4.2%	34.4%	2.6%
			Sampler -->	REI Engineering, Inc.												
Petroleum VOC's (µg/kg)	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	NR 140 Groundwater Pathway Protection													
Benzene	1,600	7,070	5.1	< 25	< 25	< 25.8	< 25	< 25	< 25	< 25	< 62.5	< 26.6	< 25	< 25	< 25	< 25
Ethylbenzene	8,020	35,400	1,570	< 25	< 25	47.0[J]	< 25	< 25	< 25	< 25	< 62.5	< 26.6	< 25	< 25	< 25	< 25
Toluene	818,000	818,000	1,107.20	< 25	< 25	54.5[J]	< 25	< 25	< 25	< 25	< 62.5	< 26.6	< 25	< 25	< 25	< 25
Xylenes (Total)	260,000	260,000	3,960	< 50	< 50	328	< 50	< 50	< 50	< 50	< 125	< 53.2	< 50	< 50	< 50	< 50
Methly tert Butyl Ether	63,800	282,000	27	< 25	< 25	< 25.8	< 25	< 25	< 25	< 25	< 62.5	< 26.6	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.70	< 25	< 25	221	< 25	44.0[J]	< 25	< 25	< 62.5	< 26.6	< 25	< 25	< 25	< 25
1,3,5-Trimethylbenzene	182,000	182,000		< 25	< 25	90.0	< 25	< 25	< 25	< 25	< 62.5	< 26.6	< 25	< 25	< 25	< 25
Naphthalene	5,520	24,100	658.2	< 40	< 40	< 41.3	< 40	< 40	< 40	< 40	< 100	< 42.6	< 40	< 40	< 40	< 40

			Sample ID -->	CSS#9		CSS#10	CSS#11	CSS#12	CSS#13	CSS#14		CSS#15		CSS#16	CSS#17
			Date -->	10/8/2019		10/7/2019	10/7/2019	10/8/2019	10/8/2019	10/8/2019		10/8/2019		10/8/2019	10/8/2019
			Sample Depth -->	4	10	4	9	4	9	4	9	4	9	4	5
			Percent Moisture -->	11.1%	5.2%	8.0%	3.6%	7.5%	5.5%	8.5%	11.9%	9.8%	9.9%	4.9%	5.5%
			Sampler -->	REI Engineering, Inc.											
Petroleum VOC's (µg/kg)	Non-Industrial Not-To-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)												
Benzene	1,600	7,070	5.1	< 25	< 25	< 25	< 25	< 25.8	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene	8,020	35,400	1,570	< 25	< 25	< 25	< 25	< 25.8	< 25	< 25	< 25	< 25	< 25	< 25	261
Toluene	818,000	818,000	1,107.20	< 25	< 25	< 25	< 25	< 25.8	< 25	< 25	< 25	< 25	< 25	< 25	56.6[J]
Xylenes (Total)	260,000	260,000	3,960	< 50	< 50	< 50	< 50	< 51.5	130.8[J]	< 50	< 50	< 50	86.2[J]	< 50	1,620
Methly tert Butyl Ether	63,800	282,000	27	< 25	< 25	< 25	< 25	< 25.8	< 25	< 25	< 25	< 25	< 25	< 25	< 25
1,2,4-Trimethylbenzene	219,000	219,000	1,378.70	< 25	< 25	27.2[J]	< 25	99.6	141	< 25	< 25	< 25	200	234	*3,770*
1,3,5-Trimethylbenzene	182,000	182,000		< 25	< 25	< 25	< 25	44.4[J]	44.0[J]	< 25	< 25	< 25	68	89	1,160
Naphthalene	5,520	24,100	658.2	< 40	< 40	< 40	< 40	85.6[J]	< 40	< 40	< 40	< 40	89.3[J]	94.2[J]	*1,070*

Notes:

NR720 Standards Obtained From WDNR Online Database
RCL - NR 720 Residual Contaminant Level for Soil
DC - Direct Contact
Background Threshold Value
Exceeds Non-Industrial Not-To-Exceed DC RCL — **Bold**
Exceeds NR 140 Groundwater Pathway Protection — *Italic*
Exceeds NR720 Industrial Not-To-Exceed DC RCL — **Underlined**
NS - No Standard
< - Concentration below listed laboratory detection limit
NA - Not Analyzed
[J] - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2
Summary of PID Results
Burnett Oil Company
Webster, Wisconsin

Sample	Depth (ft)	PID Result	Sampled	Soil Excavated
CSS#1	4	0.0	Yes	
CSS#2	4	0.0	No	
CSS#2	12	0.0	Yes	
CSS#3	4	44.2	Yes	
CSS#4	4	18.8	Yes	
CSS#4	12	0.0	Yes	
CSS#5	4	0.0	Yes	
CSS#5	12	0.0	Yes	
CSS#6	4	123	Yes	
CSS#6	12	0.0	Yes	
CSS#7	4	0.2	Yes	
CSS#7	12	0.0	Yes	
CSS#8	4	0.0	Yes	
CSS#8	10	0.0	Yes	
CSS#9	4	9.4	Yes	
CSS#9	10	0.0	Yes	
CSS#10	4	36.9	Yes	
CSS#11	6	975	No	Yes
CSS#11	9	5.9	Yes	
CSS#12	4	132.3	Yes	
CSS#13	5	902	No	Yes
CSS#13	9	31.6	Yes	
CSS#14	4	3.7	Yes	
CSS#14	9	2.8	Yes	
CSS#15	4	0.3	Yes	
CSS#15	9	76	Yes	
CSS#16	4	50.1	Yes	
CSS#17	5	0.0	Yes	

Sample	Depth (ft)	PID Result	Soil Excavated
A	5	110	
B	5	0.7	
C	5	0.0	
D	5	3.5	
E	5	1,082	Yes
F	4	267	Yes
F	6	248	Yes

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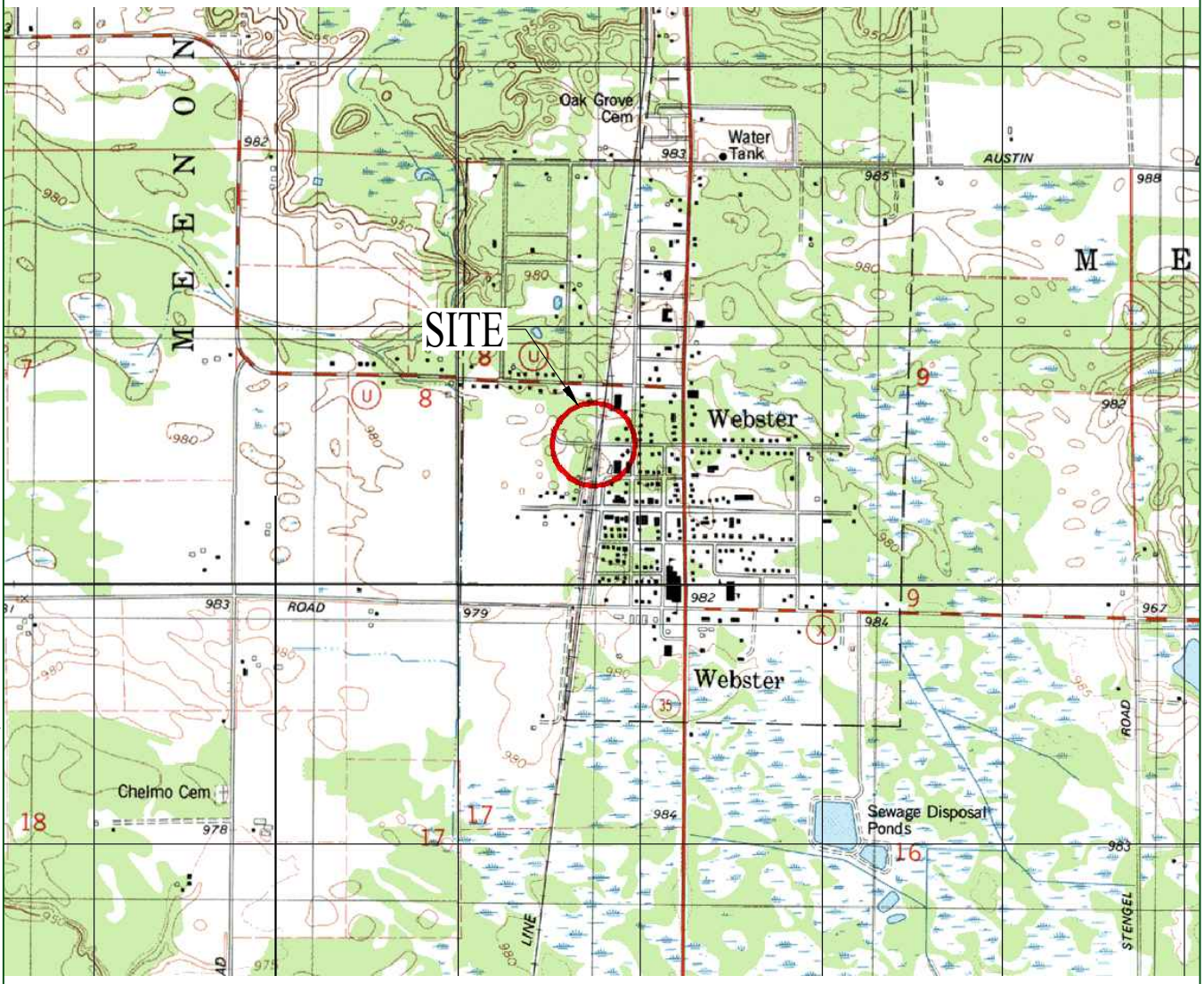


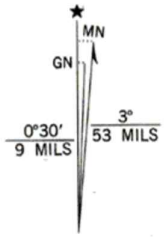
SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1982 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

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

1982

DMA 2575 IV NE–SERIES V861

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 1 : SITE VICINITY MAP

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

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

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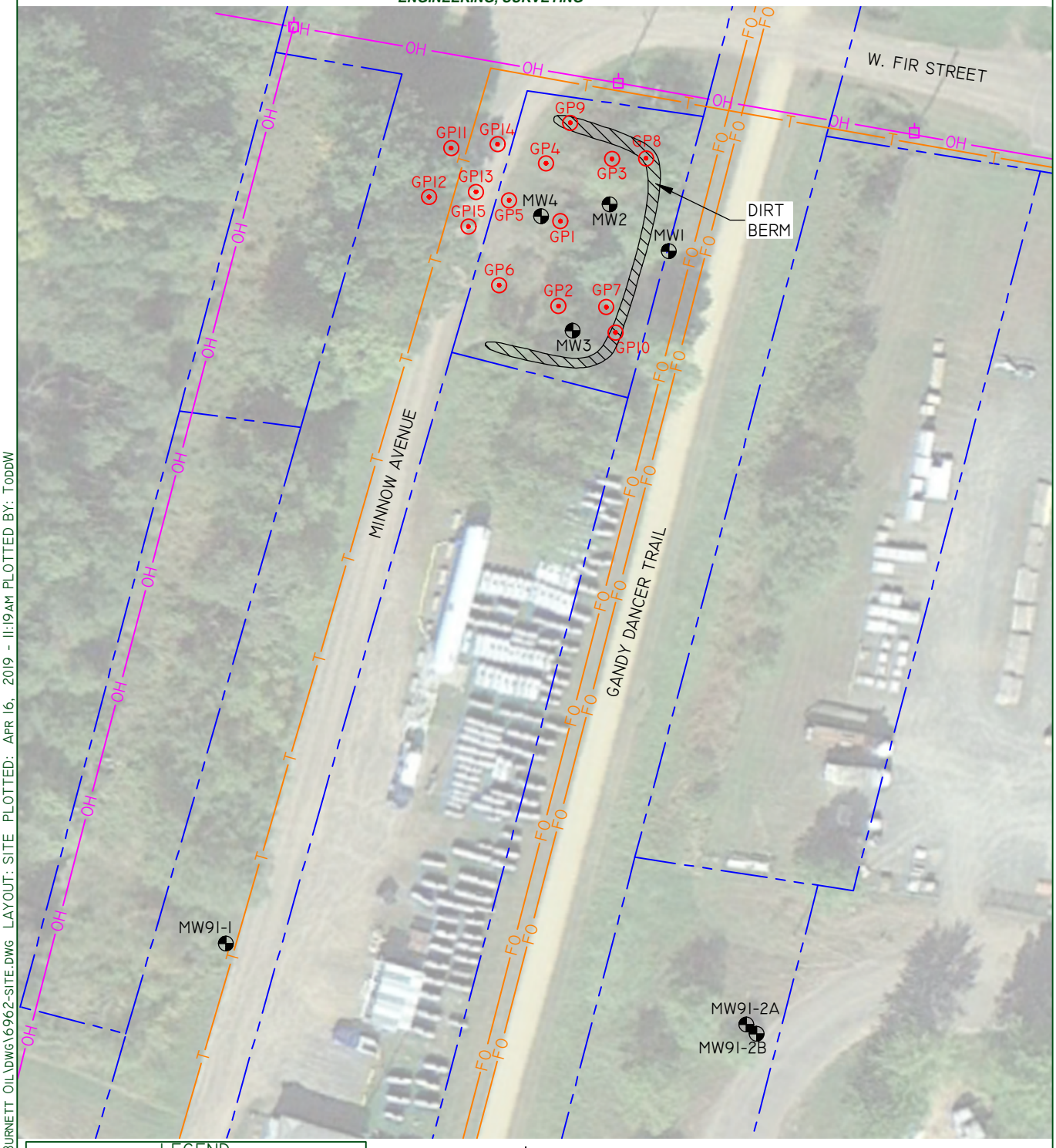

LEGEND

0 60

SCALE: 1" = 60'

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

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 2 : DETAILED SITE MAP

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	4/16/2019

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SITE.DWG LAYOUT: SITE PLOTTED: APR 16, 2019 - 11:19AM PLOTTED BY: TODDW

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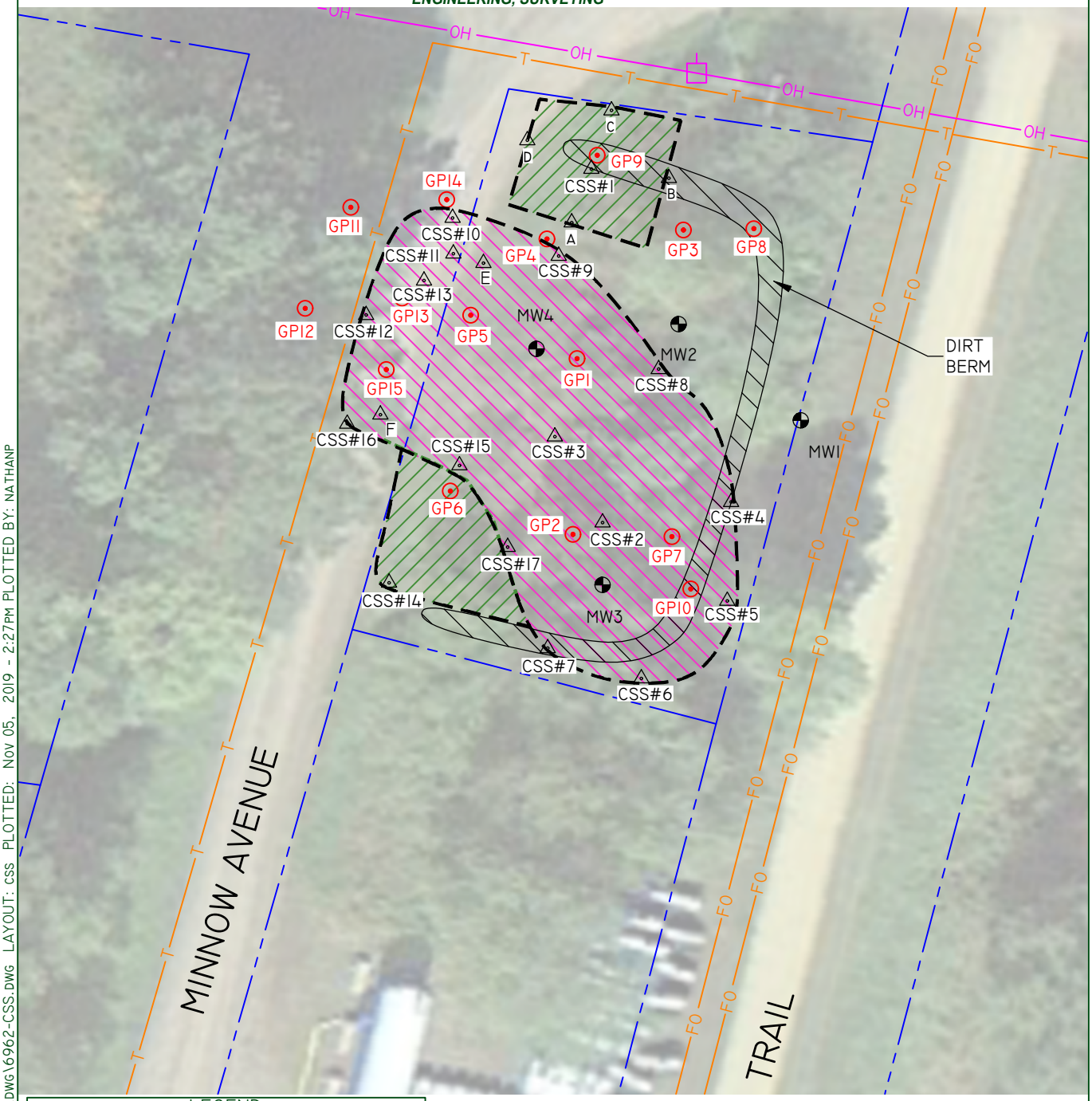


LEGEND

0 30

SCALE: 1" = 30'

- CONFIRMATORY SOIL SAMPLE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- T — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)
- AREA OF EXCAVATION (APPROXIMATE)
- 5-FT DEPTH
- 9-12 FT DEPTH

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 3 : AREA OF COMPLETED SOIL EXCAVATION

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	11/5/2019

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-CSS.DWG LAYOUT: CSS PLOTTED: Nov 05, 2019 - 2:27PM PLOTTED BY: NATHANP

APPENDIX A

MONITORING WELL ABANDONMENT FORMS

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	MW1	

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
Investigation Complete	

2. Facility / Owner Information

Facility Name: Burnett Oil Company
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): 9/14/2016

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	25

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	1bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
REI Engineering		010/6/2019

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		11-5-19

DNR Use Only

Date Received	Noted By

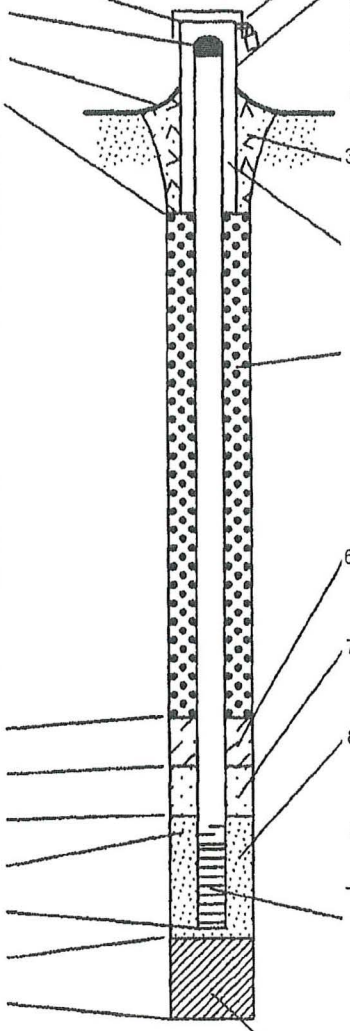
Comments

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.
1. 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 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	MW2	

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

¼ / ¼ NE or Gov't Lot #	¼ SE	Section	Township	Range
		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
Investigation Complete	

2. Facility / Owner Information

Facility Name: Burnett Oil Company
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): 9/14/2016

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	25

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	1bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
REI Engineering		010/6/2019

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		11-5-19

DNR Use Only

Date Received	Noted By

Comments:

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-2
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	___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N; R. ___ ☐ W	**Well Installed By (Person's Name and Firm)**
Ft.	**Location of Well Relative to Waste/Source**	Gestra Engineering (Mitch and Mike)
Is Well A Point of Enforcement Std. Application ☐ Yes ☐ No	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

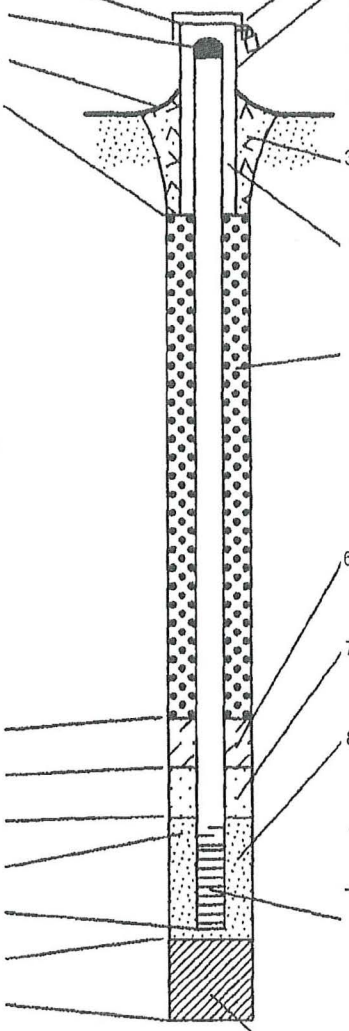
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; _____ Other ☐

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 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	MW3	

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
Investigation Complete	

2. Facility / Owner Information

Facility Name: Burnett Oil Company
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): 9/14/2016

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	25

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	1bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
REI Engineering		010/6/2019

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		11-5-19

DNR Use Only

Date Received	Noted By

Comments:

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-3
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

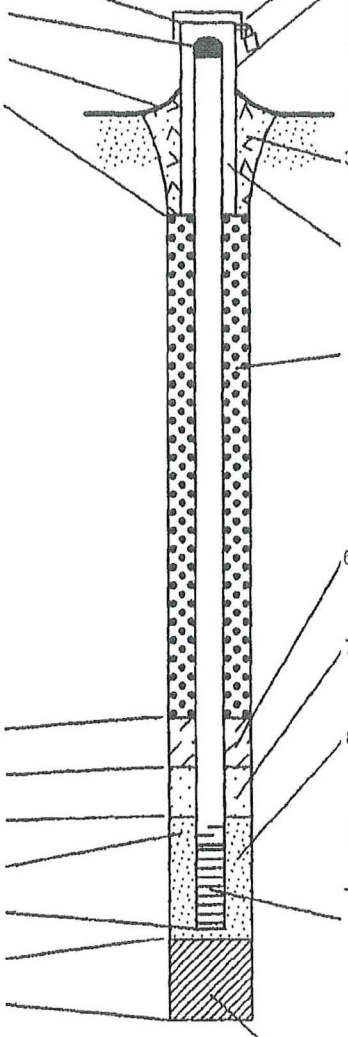
14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

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.
1. 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 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	MW4	

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
Investigation Complete	

2. Facility / Owner Information

Facility Name: Burnett Oil Company
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): 9/14/2016

If a Well Construction Report is available, please attach.

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

Formation Type:
☑ Unconsolidated Formation ☐ Bedrock

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

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
	25

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	1bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
REI Engineering		010/6/2019

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		11-5-19

DNR Use Only

Date Received	Noted By

Comments

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 ___ 1/4 of ___ 1/4 of Sec. ___, T. ___ N; R. ___ ☐ W	**Date Well Installed** 9/15/16
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

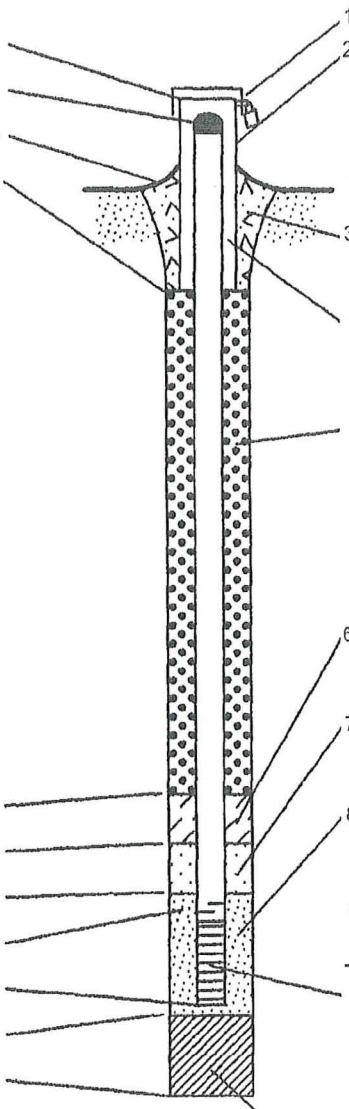
14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

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.
1. 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 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.

APPENDIX B

SOIL DISPOSAL DOCUMENTATION

Detail Contract Activity Report

Ticket Type:SCALE TICKET

October 01, 2019 to October 10, 2019
Facility: LAKE AREA LANDFILL

Specific Contract(s) : '51341913108'

History and Waiting
* - Confirmed Qty Applied to Billing

51341913108

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Contract Rate		Billing Quantity	
10/07/2019 I	01 1073998	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	23.25	TN
10/07/2019 I	01 1073999	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	20.69	TN
10/07/2019 I	01 1074000	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	21.55	TN
10/07/2019 I	01 1074001	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	21.37	TN
10/07/2019 I	01 1074002	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	25.10	TN
10/07/2019 I	01 1074004	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	22.61	TN
10/07/2019 I	01 1074005	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	22.05	TN
10/07/2019 I	01 1074006	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	18.12	TN
10/07/2019 I	01 1074007	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	23.36	TN
10/07/2019 I	01 1074008	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	28.86	TN
10/07/2019 I	01 1074009	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	25.55	TN
10/07/2019 I	01 1074014	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	24.69	TN
10/07/2019 I	01 1074016	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	23.02	TN
10/07/2019 I	01 1074017	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	25.55	TN
10/07/2019 I	01 1074046	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	28.20	TN
10/07/2019 I	01 1074048	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	25.11	TN
10/07/2019 I	01 1074050	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	23.37	TN
10/07/2019 I	01 1074053	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	25.99	TN
10/07/2019 I	01 1074054	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	24.61	TN
10/07/2019 I	01 1074057	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	19.90	TN
10/07/2019 I	01 1074059	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	21.69	TN
10/07/2019 I	01 1074068	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	19.83	TN
10/07/2019 I	01 1074069	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	21.26	TN
10/07/2019 I	01 1074073	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	22.21	TN
10/07/2019 I	01 1074075	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	22.95	TN
10/07/2019 I	01 1074080	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	19.85	TN
10/07/2019 I	01 1074085	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	17.59	TN

10/07/2019	I	01	1074086	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	21.97	TN
10/07/2019	I	01	1074088	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	18.53	TN
10/07/2019	I	01	1074108	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	23.03	TN
10/07/2019	I	01	1074116	333365 - REI Engineering, Inc.	Antczak15	SW-CONT SOIL-ALT DA	16.50	F	21.51	TN
10/07/2019	I	01	1074120	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	21.23	TN
10/07/2019	I	01	1074126	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	24.46	TN
10/07/2019	I	01	1074127	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	20.25	TN
10/07/2019	I	01	1074131	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	20.38	TN
10/07/2019	I	01	1074140	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	19.77	TN
10/07/2019	I	01	1074141	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	22.63	TN
10/07/2019	I	01	1074143	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	22.71	TN
10/07/2019	I	01	1074144	333365 - REI Engineering, Inc.	hopkins93	SW-CONT SOIL-ALT DA	16.50	F	21.59	TN
10/07/2019	I	01	1074150	333365 - REI Engineering, Inc.	stout107	SW-CONT SOIL-ALT DA	16.50	F	23.26	TN
10/07/2019	I	01	1074158	333365 - REI Engineering, Inc.	antczak16	SW-CONT SOIL-ALT DA	16.50	F	22.08	TN
10/07/2019	I	01	1074160	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	21.53	TN
10/07/2019	I	01	1074164	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	22.28	TN
10/07/2019	I	01	1074173	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	21.41	TN
10/07/2019	I	01	1074174	333365 - REI Engineering, Inc.	Antczak15	SW-CONT SOIL-ALT DA	16.50	F	20.64	TN
10/07/2019	I	01	1074176	333365 - REI Engineering, Inc.	stout106	SW-CONT SOIL-ALT DA	16.50	F	21.05	TN
10/08/2019	I	01	1074189	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	19.77	TN
10/08/2019	I	01	1074190	333365 - REI Engineering, Inc.	dks74	SW-CONT SOIL-ALT DA	16.50	F	24.10	TN
10/08/2019	I	01	1074191	333365 - REI Engineering, Inc.	hopkins93	SW-CONT SOIL-ALT DA	16.50	F	24.11	TN
10/08/2019	I	01	1074192	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	23.04	TN
10/08/2019	I	01	1074193	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	22.94	TN
10/08/2019	I	01	1074194	333365 - REI Engineering, Inc.	antczak14	SW-CONT SOIL-ALT DA	16.50	F	20.74	TN
10/08/2019	I	01	1074195	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	19.05	TN
10/08/2019	I	01	1074196	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	19.90	TN
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10/08/2019	I	01	1074216	333365 - REI Engineering, Inc.	stout106	SW-CONT SOIL-ALT DA	16.50	F	21.33	TN
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10/08/2019	I	01	1074241	333365 - REI Engineering, Inc.	antczak14	SW-CONT SOIL-ALT DA	16.50	F	22.73	TN
10/08/2019	I	01	1074245	333365 - REI Engineering, Inc.	dks74	SW-CONT SOIL-ALT DA	16.50	F	20.80	TN
10/08/2019	I	01	1074246	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	21.88	TN
10/08/2019	I	01	1074252	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	22.01	TN
10/08/2019	I	01	1074260	333365 - REI Engineering, Inc.	stout106	SW-CONT SOIL-ALT DA	16.50	F	22.38	TN
10/08/2019	I	01	1074263	333365 - REI Engineering, Inc.	antczak16	SW-CONT SOIL-ALT DA	16.50	F	22.69	TN

10/08/2019	I	01	1074267	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	18.66	TN
10/08/2019	I	01	1074268	333365 - REI Engineering, Inc.	C	SW-CONT SOIL-ALT DA	16.50	F	23.12	TN
10/08/2019	I	01	1074280	333365 - REI Engineering, Inc.	hopkins99	SW-CONT SOIL-ALT DA	16.50	F	21.57	TN
10/08/2019	I	01	1074286	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	20.37	TN
10/08/2019	I	01	1074288	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	23.86	TN
10/08/2019	I	01	1074290	333365 - REI Engineering, Inc.	antczak14	SW-CONT SOIL-ALT DA	16.50	F	22.60	TN
10/08/2019	I	01	1074291	333365 - REI Engineering, Inc.	dks74	SW-CONT SOIL-ALT DA	16.50	F	19.95	TN
10/08/2019	I	01	1074299	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	22.66	TN
10/08/2019	I	01	1074304	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	24.71	TN
10/08/2019	I	01	1074309	333365 - REI Engineering, Inc.	stout106	SW-CONT SOIL-ALT DA	16.50	F	22.48	TN
10/08/2019	I	01	1074320	333365 - REI Engineering, Inc.	stout105	SW-CONT SOIL-ALT DA	16.50	F	22.10	TN
10/08/2019	I	01	1074321	333365 - REI Engineering, Inc.	antczak16	SW-CONT SOIL-ALT DA	16.50	F	22.31	TN
10/08/2019	I	01	1074322	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	23.15	TN
10/08/2019	I	01	1074349	333365 - REI Engineering, Inc.	hopkins99	SW-CONT SOIL-ALT DA	16.50	F	20.82	TN
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10/08/2019	I	01	1074360	333365 - REI Engineering, Inc.	antczak15	SW-CONT SOIL-ALT DA	16.50	F	23.90	TN
10/08/2019	I	01	1074361	333365 - REI Engineering, Inc.	antczak14	SW-CONT SOIL-ALT DA	16.50	F	23.58	TN
10/08/2019	I	01	1074365	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	22.33	TN
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10/08/2019	I	01	1074372	333365 - REI Engineering, Inc.	stout106	SW-CONT SOIL-ALT DA	16.50	F	22.08	TN
10/08/2019	I	01	1074382	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	22.66	TN
10/08/2019	I	01	1074385	333365 - REI Engineering, Inc.	stout105	SW-CONT SOIL-ALT DA	16.50	F	23.47	TN
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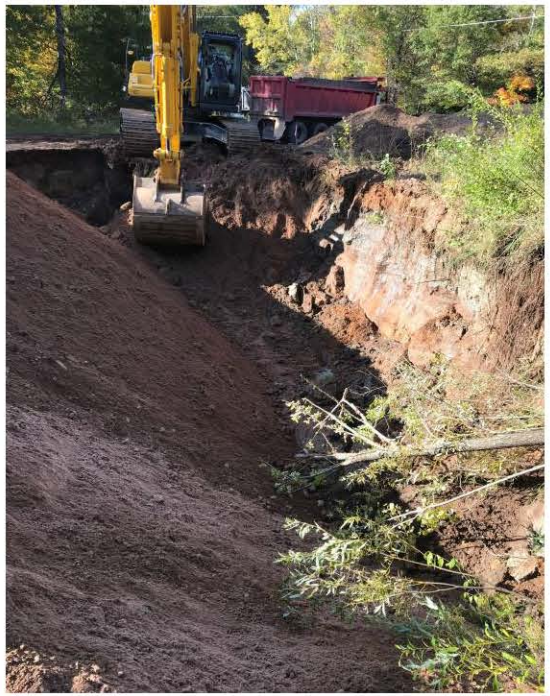
10/09/2019	I	01	1074391	333365 - REI Engineering, Inc.	dks74	SW-CONT SOIL-ALT DA	16.50	F	23.02	TN
10/09/2019	I	01	1074393	333365 - REI Engineering, Inc.	hopkins10	SW-CONT SOIL-ALT DA	16.50	F	20.97	TN
10/09/2019	I	01	1074394	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	20.56	TN
10/09/2019	I	01	1074396	333365 - REI Engineering, Inc.	rwestaby2	SW-CONT SOIL-ALT DA	16.50	F	22.27	TN
10/09/2019	I	01	1074397	333365 - REI Engineering, Inc.	hopkins99	SW-CONT SOIL-ALT DA	16.50	F	27.04	TN

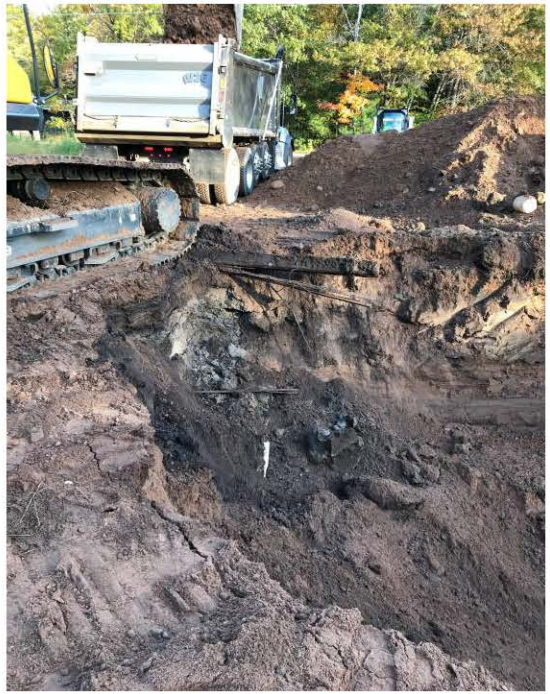
Tickets Reported: 95 Items Reported: 95 Contract Totals:

Material Summary	Weight			Volume			Count	
	Inbound	Outbound		Inbound	Outbound		Inbound	Outbound
VI - SW-CONT SOIL-ALT DAILY COVER	2,116.90	0.00	TN	0.00	0.00	YD	0.00	0.00

APPENDIX C

SITE PHOTOGRAPHS





Burnett Oil Company	Appendix C	Photographs of the Soil Excavation
26504 Minnow Avenue, Webster, WI	REI Project: 6962	p:\6900-6999\6962 - burnett oil\working report\soil excavation\[6962seappc.xls]photo sheet 1

Burnett Oil Company	Appendix C	Photographs of the Soil Excavation
26504 Minnow Avenue, Webster, WI	REI Project: 6962	p:\6900-6999\6962 - burnett oil\working report\soil excavation\[6962seappc.xls]photo sheet 2

Burnett Oil Company	Appendix C	Photographs of the Soil Excavation
26504 Minnow Avenue, Webster, WI	REI Project: 6962	p:\6900-6999\6962 - burnett oil\working report\soil excavation\[6962seappc.xls]photo sheet 3

APPENDIX D

LABORATORY ANALYTICAL REPORT

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

October 23, 2019

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

RE: Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

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

CERTIFICATIONS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40196989001	**CSS#1**	Solid	10/07/19 07:00	10/10/19 09:15
40196989002	**CSS#2**	Solid	10/07/19 09:30	10/10/19 09:15
40196989003	**CSS#3**	Solid	10/07/19 13:47	10/10/19 09:15
40196989004	**CSS#4 @ 4'**	Solid	10/07/19 13:58	10/10/19 09:15
40196989005	**CSS#4 @ 12'**	Solid	10/07/19 14:05	10/10/19 09:15
40196989006	**CSS#5 @ 4**	Solid	10/07/19 10:02	10/10/19 09:15
40196989007	**CSS#5 @ 12**	Solid	10/07/19 10:15	10/10/19 09:15
40196989008	**CSS#6 @ 4**	Solid	10/07/19 15:04	10/10/19 09:15
40196989009	**CSS#6 @ 12**	Solid	10/07/19 15:16	10/10/19 09:15
40196989010	**CSS#7 @ 12**	Solid	10/07/19 15:27	10/10/19 09:15
40196989011	**CSS#8 @ 4**	Solid	10/07/19 16:10	10/10/19 09:15
40196989012	**CSS#8 @ 10**	Solid	10/08/19 08:05	10/10/19 09:15
40196989013	**CSS#9 @ 4**	Solid	10/08/19 08:12	10/10/19 09:15
40196989014	**CSS#9 @ 10**	Solid	10/08/19 08:48	10/10/19 09:15
40196989015	**CSS#10**	Solid	10/08/19 11:09	10/10/19 09:15
40196989016	**CSS#11**	Solid	10/08/19 11:00	10/10/19 09:15
40196989017	**CSS#12**	Solid	10/08/19 12:10	10/10/19 09:15
40196989018	**CSS#13**	Solid	10/08/19 12:12	10/10/19 09:15
40196989019	**CSS#14 @ 9'**	Solid	10/08/19 13:26	10/10/19 09:15
40196989020	**CSS#15 @ 9'**	Solid	10/08/19 13:34	10/10/19 09:15
40196989021	**CSS#15 @ 4'**	Solid	10/08/19 13:39	10/10/19 09:15
40196989022	**CSS#16**	Solid	10/08/19 13:45	10/10/19 09:15
40196989023	**CSS#14 @ 4'**	Solid	10/08/19 13:28	10/10/19 09:15
40196989024	**CSS#7 @ 4'**	Solid	10/08/19 16:18	10/10/19 09:15
40196989025	**CSS#17 @ 5'**	Solid	10/08/19 16:20	10/10/19 09:15

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SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40196989001	**CSS#1**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989002	**CSS#2**	EPA 8260	MDS	12
		ASTM D2974-87	SKW	1
40196989003	**CSS#3**	EPA 8260	MDS	12
		ASTM D2974-87	SKW	1
40196989004	**CSS#4 @ 4'**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989005	**CSS#4 @ 12'**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989006	**CSS#5 @ 4**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989007	**CSS#5 @ 12**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989008	**CSS#6 @ 4**	EPA 8260	MDS	12
		ASTM D2974-87	SKW	1
40196989009	**CSS#6 @ 12**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989010	**CSS#7 @ 12**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989011	**CSS#8 @ 4**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989012	**CSS#8 @ 10**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989013	**CSS#9 @ 4**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989014	**CSS#9 @ 10**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989015	**CSS#10**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989016	**CSS#11**	EPA 8260	MDS	12
		ASTM D2974-87	SKW	1
40196989017	**CSS#12**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989018	**CSS#13**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989019	**CSS#14 @ 9'**	EPA 8260	ALD	12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	SKW	1
40196989020	**CSS#15 @ 9'**	EPA 8260	MDS	12
		ASTM D2974-87	SKW	1
40196989021	**CSS#15 @ 4'**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989022	**CSS#16**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989023	**CSS#14 @ 4'**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989024	**CSS#7 @ 4'**	EPA 8260	ALD	12
		ASTM D2974-87	SKW	1
40196989025	**CSS#17 @ 5'**	EPA 8260	MDS	12
		ASTM D2974-87	SKW	1

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#1 **Lab ID: 40196989001** Collected: 10/07/19 07:00 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 12:19	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 12:19	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:19	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	57-146		1	10/17/19 10:15	10/19/19 12:19	1868-53-7	
4-Bromofluorobenzene (S)	103	%	54-126		1	10/17/19 10:15	10/19/19 12:19	460-00-4	
Toluene-d8 (S)	115	%	64-134		1	10/17/19 10:15	10/19/19 12:19	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.1**	%	0.10	0.10	1		10/17/19 15:50		

Sample: CSS#2 **Lab ID: 40196989002** Collected: 10/07/19 09:30 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/16/19 11:30	10/17/19 13:23	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/16/19 11:30	10/17/19 13:23	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/16/19 11:30	10/17/19 13:23	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	103	%	57-146		1	10/16/19 11:30	10/17/19 13:23	1868-53-7	
4-Bromofluorobenzene (S)	92	%	54-126		1	10/16/19 11:30	10/17/19 13:23	460-00-4	
Toluene-d8 (S)	102	%	64-134		1	10/16/19 11:30	10/17/19 13:23	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.7**	%	0.10	0.10	1		10/17/19 15:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#3 **Lab ID: 40196989003** Collected: 10/07/19 13:47 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:00	10/20/19 10:53	71-43-2	W
Ethylbenzene	**47.0J**	ug/kg	63.9	26.6	1	10/17/19 10:00	10/20/19 10:53	100-41-4	
Methyl-tert-butyl ether	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:00	10/20/19 10:53	1634-04-4	W
Naphthalene	**<41.3**	ug/kg	258	41.3	1	10/17/19 10:00	10/20/19 10:53	91-20-3	W
Toluene	**54.5J**	ug/kg	63.9	26.6	1	10/17/19 10:00	10/20/19 10:53	108-88-3	
1,2,4-Trimethylbenzene	**221**	ug/kg	63.9	26.6	1	10/17/19 10:00	10/20/19 10:53	95-63-6	
1,3,5-Trimethylbenzene	**90.0**	ug/kg	63.9	26.6	1	10/17/19 10:00	10/20/19 10:53	108-67-8	
m&p-Xylene	**221**	ug/kg	128	53.3	1	10/17/19 10:00	10/20/19 10:53	179601-23-1	
o-Xylene	**107**	ug/kg	63.9	26.6	1	10/17/19 10:00	10/20/19 10:53	95-47-6	
Surrogates									
Dibromofluoromethane (S)	108	%	57-146		1	10/17/19 10:00	10/20/19 10:53	1868-53-7	
4-Bromofluorobenzene (S)	104	%	54-126		1	10/17/19 10:00	10/20/19 10:53	460-00-4	
Toluene-d8 (S)	107	%	64-134		1	10/17/19 10:00	10/20/19 10:53	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.3**	%	0.10	0.10	1		10/17/19 15:50		

Sample: CSS#4 @ 4' **Lab ID: 40196989004** Collected: 10/07/19 13:58 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:00	10/19/19 17:00	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:00	10/19/19 17:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:00	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	10/17/19 10:00	10/19/19 17:00	1868-53-7	
4-Bromofluorobenzene (S)	104	%	54-126		1	10/17/19 10:00	10/19/19 17:00	460-00-4	
Toluene-d8 (S)	109	%	64-134		1	10/17/19 10:00	10/19/19 17:00	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.2**	%	0.10	0.10	1		10/17/19 15:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#4 @ 12' **Lab ID: 40196989005** Collected: 10/07/19 14:05 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 13:31	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 13:31	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 13:31	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:00	10/19/19 13:31	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 13:31	108-88-3	W
1,2,4-Trimethylbenzene	**44.0J**	ug/kg	63.3	26.4	1	10/17/19 10:00	10/19/19 13:31	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 13:31	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:00	10/19/19 13:31	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 13:31	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	10/17/19 10:00	10/19/19 13:31	1868-53-7	
4-Bromofluorobenzene (S)	103	%	54-126		1	10/17/19 10:00	10/19/19 13:31	460-00-4	
Toluene-d8 (S)	107	%	64-134		1	10/17/19 10:00	10/19/19 13:31	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.3**	%	0.10	0.10	1		10/17/19 15:50		

Sample: CSS#5 @ 4 **Lab ID: 40196989006** Collected: 10/07/19 10:02 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:00	10/19/19 17:23	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:00	10/19/19 17:23	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:23	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	115	%	57-146		1	10/17/19 10:00	10/19/19 17:23	1868-53-7	
4-Bromofluorobenzene (S)	105	%	54-126		1	10/17/19 10:00	10/19/19 17:23	460-00-4	
Toluene-d8 (S)	110	%	64-134		1	10/17/19 10:00	10/19/19 17:23	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.2**	%	0.10	0.10	1		10/17/19 15:50		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#5 @ 12 **Lab ID: 40196989007** Collected: 10/07/19 10:15 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:00	10/19/19 17:46	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:00	10/19/19 17:46	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:00	10/19/19 17:46	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	126	%	57-146		1	10/17/19 10:00	10/19/19 17:46	1868-53-7	
4-Bromofluorobenzene (S)	120	%	54-126		1	10/17/19 10:00	10/19/19 17:46	460-00-4	
Toluene-d8 (S)	127	%	64-134		1	10/17/19 10:00	10/19/19 17:46	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.6**	%	0.10	0.10	1		10/17/19 15:50		

Sample: CSS#6 @ 4 **Lab ID: 40196989008** Collected: 10/07/19 15:04 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	71-43-2	W
Ethylbenzene	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	100-41-4	W
Methyl-tert-butyl ether	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	1634-04-4	W
Naphthalene	**<100**	ug/kg	625	100	2.5	10/17/19 10:00	10/20/19 11:16	91-20-3	W
Toluene	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	108-88-3	W
1,2,4-Trimethylbenzene	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	95-63-6	W
1,3,5-Trimethylbenzene	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	108-67-8	W
m&p-Xylene	**<125**	ug/kg	300	125	2.5	10/17/19 10:00	10/20/19 11:16	179601-23-1	W
o-Xylene	**<62.5**	ug/kg	150	62.5	2.5	10/17/19 10:00	10/20/19 11:16	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	100	%	57-146		2.5	10/17/19 10:00	10/20/19 11:16	1868-53-7	D3
4-Bromofluorobenzene (S)	101	%	54-126		2.5	10/17/19 10:00	10/20/19 11:16	460-00-4	
Toluene-d8 (S)	100	%	64-134		2.5	10/17/19 10:00	10/20/19 11:16	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**10.8**	%	0.10	0.10	1		10/17/19 15:50		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#6 @ 12 **Lab ID: 40196989009** Collected: 10/07/19 15:16 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	71-43-2	W
Ethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	100-41-4	W
Methyl-tert-butyl ether	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	1634-04-4	W
Naphthalene	**<42.6**	ug/kg	266	42.6	1	10/17/19 10:00	10/19/19 18:09	91-20-3	W
Toluene	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	108-88-3	W
1,2,4-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	95-63-6	W
1,3,5-Trimethylbenzene	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	108-67-8	W
m&p-Xylene	**<53.2**	ug/kg	128	53.2	1	10/17/19 10:00	10/19/19 18:09	179601-23-1	W
o-Xylene	**<26.6**	ug/kg	63.8	26.6	1	10/17/19 10:00	10/19/19 18:09	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	194	%	57-146		1	10/17/19 10:00	10/19/19 18:09	1868-53-7	S3
4-Bromofluorobenzene (S)	180	%	54-126		1	10/17/19 10:00	10/19/19 18:09	460-00-4	S3
Toluene-d8 (S)	187	%	64-134		1	10/17/19 10:00	10/19/19 18:09	2037-26-5	S3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.5**	%	0.10	0.10	1		10/17/19 15:50		

Sample: CSS#7 @ 12 **Lab ID: 40196989010** Collected: 10/07/19 15:27 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 12:41	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 12:41	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 12:41	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	57-146		1	10/17/19 10:15	10/19/19 12:41	1868-53-7	
4-Bromofluorobenzene (S)	93	%	54-126		1	10/17/19 10:15	10/19/19 12:41	460-00-4	
Toluene-d8 (S)	108	%	64-134		1	10/17/19 10:15	10/19/19 12:41	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.2**	%	0.10	0.10	1		10/17/19 15:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#8 @ 4 **Lab ID: 40196989011** Collected: 10/07/19 16:10 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 13:04	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 13:04	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:04	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	89	%	57-146		1	10/17/19 10:15	10/19/19 13:04	1868-53-7	
4-Bromofluorobenzene (S)	93	%	54-126		1	10/17/19 10:15	10/19/19 13:04	460-00-4	
Toluene-d8 (S)	102	%	64-134		1	10/17/19 10:15	10/19/19 13:04	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**34.4**	%	0.10	0.10	1		10/17/19 15:50		

Sample: CSS#8 @ 10 **Lab ID: 40196989012** Collected: 10/08/19 08:05 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 13:26	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 13:26	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:26	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	99	%	57-146		1	10/17/19 10:15	10/19/19 13:26	1868-53-7	
4-Bromofluorobenzene (S)	99	%	54-126		1	10/17/19 10:15	10/19/19 13:26	460-00-4	
Toluene-d8 (S)	110	%	64-134		1	10/17/19 10:15	10/19/19 13:26	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.6**	%	0.10	0.10	1		10/17/19 16:27		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#9 @ 4 **Lab ID: 40196989013** Collected: 10/08/19 08:12 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 13:49	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 13:49	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 13:49	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		1	10/17/19 10:15	10/19/19 13:49	1868-53-7	
4-Bromofluorobenzene (S)	96	%	54-126		1	10/17/19 10:15	10/19/19 13:49	460-00-4	
Toluene-d8 (S)	108	%	64-134		1	10/17/19 10:15	10/19/19 13:49	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.1**	%	0.10	0.10	1		10/17/19 16:27		

Sample: CSS#9 @ 10 **Lab ID: 40196989014** Collected: 10/08/19 08:48 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 14:12	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 14:12	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:12	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	95	%	57-146		1	10/17/19 10:15	10/19/19 14:12	1868-53-7	
4-Bromofluorobenzene (S)	96	%	54-126		1	10/17/19 10:15	10/19/19 14:12	460-00-4	
Toluene-d8 (S)	109	%	64-134		1	10/17/19 10:15	10/19/19 14:12	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.2**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#10 **Lab ID: 40196989015** Collected: 10/08/19 11:09 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:34	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:34	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:34	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 14:34	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:34	108-88-3	W
1,2,4-Trimethylbenzene	**27.2J**	ug/kg	65.2	27.2	1	10/17/19 10:15	10/19/19 14:34	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:34	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 14:34	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:34	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	113	%	57-146		1	10/17/19 10:15	10/19/19 14:34	1868-53-7	
4-Bromofluorobenzene (S)	103	%	54-126		1	10/17/19 10:15	10/19/19 14:34	460-00-4	
Toluene-d8 (S)	115	%	64-134		1	10/17/19 10:15	10/19/19 14:34	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.0**	%	0.10	0.10	1		10/22/19 07:08		

Sample: CSS#11 **Lab ID: 40196989016** Collected: 10/08/19 11:00 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/20/19 10:25	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/20/19 10:25	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:25	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	57-146		1	10/17/19 10:15	10/20/19 10:25	1868-53-7	
4-Bromofluorobenzene (S)	98	%	54-126		1	10/17/19 10:15	10/20/19 10:25	460-00-4	
Toluene-d8 (S)	110	%	64-134		1	10/17/19 10:15	10/20/19 10:25	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.6**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#12 **Lab ID: 40196989017** Collected: 10/08/19 12:10 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:15	10/19/19 19:28	71-43-2	W
Ethylbenzene	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:15	10/19/19 19:28	100-41-4	W
Methyl-tert-butyl ether	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:15	10/19/19 19:28	1634-04-4	W
Naphthalene	**85.6J**	ug/kg	279	44.6	1	10/17/19 10:15	10/19/19 19:28	91-20-3	
Toluene	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:15	10/19/19 19:28	108-88-3	W
1,2,4-Trimethylbenzene	**99.6**	ug/kg	66.9	27.9	1	10/17/19 10:15	10/19/19 19:28	95-63-6	
1,3,5-Trimethylbenzene	**44.4J**	ug/kg	66.9	27.9	1	10/17/19 10:15	10/19/19 19:28	108-67-8	
m&p-Xylene	**<51.5**	ug/kg	124	51.5	1	10/17/19 10:15	10/19/19 19:28	179601-23-1	W
o-Xylene	**<25.8**	ug/kg	61.9	25.8	1	10/17/19 10:15	10/19/19 19:28	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	107	%	57-146		1	10/17/19 10:15	10/19/19 19:28	1868-53-7	
4-Bromofluorobenzene (S)	100	%	54-126		1	10/17/19 10:15	10/19/19 19:28	460-00-4	
Toluene-d8 (S)	104	%	64-134		1	10/17/19 10:15	10/19/19 19:28	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.5**	%	0.10	0.10	1		10/22/19 07:08		

Sample: CSS#13 **Lab ID: 40196989018** Collected: 10/08/19 12:12 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:57	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:57	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:57	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 14:57	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 14:57	108-88-3	W
1,2,4-Trimethylbenzene	**141**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/19/19 14:57	95-63-6	
1,3,5-Trimethylbenzene	**44.0J**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/19/19 14:57	108-67-8	
m&p-Xylene	**87.1J**	ug/kg	127	52.9	1	10/17/19 10:15	10/19/19 14:57	179601-23-1	
o-Xylene	**43.7J**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/19/19 14:57	95-47-6	
Surrogates									
Dibromofluoromethane (S)	98	%	57-146		1	10/17/19 10:15	10/19/19 14:57	1868-53-7	
4-Bromofluorobenzene (S)	101	%	54-126		1	10/17/19 10:15	10/19/19 14:57	460-00-4	
Toluene-d8 (S)	114	%	64-134		1	10/17/19 10:15	10/19/19 14:57	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#14 @ 9' **Lab ID: 40196989019** Collected: 10/08/19 13:26 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 15:19	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 15:19	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:19	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	93	%	57-146		1	10/17/19 10:15	10/19/19 15:19	1868-53-7	
4-Bromofluorobenzene (S)	97	%	54-126		1	10/17/19 10:15	10/19/19 15:19	460-00-4	
Toluene-d8 (S)	111	%	64-134		1	10/17/19 10:15	10/19/19 15:19	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**11.9**	%	0.10	0.10	1		10/22/19 07:08		

Sample: CSS#15 @ 9' **Lab ID: 40196989020** Collected: 10/08/19 13:34 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:48	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:48	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:48	1634-04-4	W
Naphthalene	**89.3J**	ug/kg	278	44.5	1	10/17/19 10:15	10/20/19 10:48	91-20-3	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 10:48	108-88-3	W
1,2,4-Trimethylbenzene	**200**	ug/kg	66.6	27.8	1	10/17/19 10:15	10/20/19 10:48	95-63-6	
1,3,5-Trimethylbenzene	**68.1**	ug/kg	66.6	27.8	1	10/17/19 10:15	10/20/19 10:48	108-67-8	
m&p-Xylene	**57.1J**	ug/kg	133	55.5	1	10/17/19 10:15	10/20/19 10:48	179601-23-1	
o-Xylene	**29.1J**	ug/kg	66.6	27.8	1	10/17/19 10:15	10/20/19 10:48	95-47-6	
Surrogates									
Dibromofluoromethane (S)	90	%	57-146		1	10/17/19 10:15	10/20/19 10:48	1868-53-7	
4-Bromofluorobenzene (S)	97	%	54-126		1	10/17/19 10:15	10/20/19 10:48	460-00-4	
Toluene-d8 (S)	106	%	64-134		1	10/17/19 10:15	10/20/19 10:48	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.9**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#15 @ 4' **Lab ID: 40196989021** Collected: 10/08/19 13:39 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 15:42	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 15:42	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 15:42	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	57-146		1	10/17/19 10:15	10/19/19 15:42	1868-53-7	
4-Bromofluorobenzene (S)	103	%	54-126		1	10/17/19 10:15	10/19/19 15:42	460-00-4	
Toluene-d8 (S)	116	%	64-134		1	10/17/19 10:15	10/19/19 15:42	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.8**	%	0.10	0.10	1		10/22/19 07:08		

Sample: CSS#16 **Lab ID: 40196989022** Collected: 10/08/19 13:45 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:05	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:05	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:05	1634-04-4	W
Naphthalene	**94.2J**	ug/kg	263	42.1	1	10/17/19 10:15	10/19/19 16:05	91-20-3	
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:05	108-88-3	W
1,2,4-Trimethylbenzene	**234**	ug/kg	63.1	26.3	1	10/17/19 10:15	10/19/19 16:05	95-63-6	
1,3,5-Trimethylbenzene	**88.9**	ug/kg	63.1	26.3	1	10/17/19 10:15	10/19/19 16:05	108-67-8	
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 16:05	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:05	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	111	%	57-146		1	10/17/19 10:15	10/19/19 16:05	1868-53-7	
4-Bromofluorobenzene (S)	104	%	54-126		1	10/17/19 10:15	10/19/19 16:05	460-00-4	
Toluene-d8 (S)	112	%	64-134		1	10/17/19 10:15	10/19/19 16:05	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.9**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#14 @ 4' **Lab ID: 40196989023** Collected: 10/08/19 13:28 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 16:27	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 16:27	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:27	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	105	%	57-146		1	10/17/19 10:15	10/19/19 16:27	1868-53-7	
4-Bromofluorobenzene (S)	98	%	54-126		1	10/17/19 10:15	10/19/19 16:27	460-00-4	
Toluene-d8 (S)	109	%	64-134		1	10/17/19 10:15	10/19/19 16:27	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.5**	%	0.10	0.10	1		10/22/19 07:08		

Sample: CSS#7 @ 4' **Lab ID: 40196989024** Collected: 10/08/19 16:18 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	10/17/19 10:15	10/19/19 16:50	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	10/17/19 10:15	10/19/19 16:50	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/19/19 16:50	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	88	%	57-146		1	10/17/19 10:15	10/19/19 16:50	1868-53-7	
4-Bromofluorobenzene (S)	88	%	54-126		1	10/17/19 10:15	10/19/19 16:50	460-00-4	
Toluene-d8 (S)	100	%	64-134		1	10/17/19 10:15	10/19/19 16:50	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**33.7**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Sample: CSS#17 @ 5' **Lab ID: 40196989025** Collected: 10/08/19 16:20 Received: 10/10/19 09:15 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
8260 MSV Med Level Short List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 11:11	71-43-2	W
Ethylbenzene	**261**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/20/19 11:11	100-41-4	
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	10/17/19 10:15	10/20/19 11:11	1634-04-4	W
Naphthalene	**1070**	ug/kg	265	42.4	1	10/17/19 10:15	10/20/19 11:11	91-20-3	
Toluene	**56.6J**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/20/19 11:11	108-88-3	
1,2,4-Trimethylbenzene	**3770**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/20/19 11:11	95-63-6	
1,3,5-Trimethylbenzene	**1160**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/20/19 11:11	108-67-8	
m&p-Xylene	**1110**	ug/kg	127	52.9	1	10/17/19 10:15	10/20/19 11:11	179601-23-1	
o-Xylene	**510**	ug/kg	63.5	26.5	1	10/17/19 10:15	10/20/19 11:11	95-47-6	
Surrogates									
Dibromofluoromethane (S)	94	%	57-146		1	10/17/19 10:15	10/20/19 11:11	1868-53-7	
4-Bromofluorobenzene (S)	99	%	54-126		1	10/17/19 10:15	10/20/19 11:11	460-00-4	
Toluene-d8 (S)	106	%	64-134		1	10/17/19 10:15	10/20/19 11:11	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.5**	%	0.10	0.10	1		10/22/19 07:08		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

QC Batch: 337683
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Short List
Associated Lab Samples: 40196989002

METHOD BLANK: 1961388
Matrix: Solid
Associated Lab Samples: 40196989002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/16/19 20:18	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/16/19 20:18	
Benzene	ug/kg	<9.2	20.0	10/16/19 20:18	
Ethylbenzene	ug/kg	<12.4	50.0	10/16/19 20:18	
m&p-Xylene	ug/kg	<34.4	100	10/16/19 20:18	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/16/19 20:18	
Naphthalene	ug/kg	<40.0	250	10/16/19 20:18	
o-Xylene	ug/kg	<14.0	50.0	10/16/19 20:18	
Toluene	ug/kg	<11.2	50.0	10/16/19 20:18	
4-Bromofluorobenzene (S)	%	100	54-126	10/16/19 20:18	
Dibromofluoromethane (S)	%	111	57-146	10/16/19 20:18	
Toluene-d8 (S)	%	109	64-134	10/16/19 20:18	

LABORATORY CONTROL SAMPLE: 1961389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2830	113	70-130	
Ethylbenzene	ug/kg	2500	2780	111	82-122	
m&p-Xylene	ug/kg	5000	5730	115	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2390	95	70-130	
o-Xylene	ug/kg	2500	2790	111	70-130	
Toluene	ug/kg	2500	2750	110	80-121	
4-Bromofluorobenzene (S)	%			101	54-126	
Dibromofluoromethane (S)	%			112	57-146	
Toluene-d8 (S)	%			105	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1961390 1961391

Parameter	Units	40196783001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1340	1340	1380	1430	103	107	70-130	4	20	
Ethylbenzene	ug/kg	<25.0	1340	1340	1420	1420	106	106	80-122	0	20	
m&p-Xylene	ug/kg	<50.0	2670	2670	2990	2940	110	108	70-130	2	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1340	1340	1220	1270	91	95	70-130	4	20	
o-Xylene	ug/kg	<25.0	1340	1340	1440	1480	106	109	70-130	3	20	
Toluene	ug/kg	<25.0	1340	1340	1420	1450	104	107	80-121	2	20	
4-Bromofluorobenzene (S)	%						109	110	54-126			
Dibromofluoromethane (S)	%						117	118	57-146			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1961390 1961391

Parameter	Units	40196783001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						112	113	64-134			

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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: 6962 BURNETT OIL
Pace Project No.: 40196989

QC Batch: 337839 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List
Associated Lab Samples: 40196989003, 40196989004, 40196989005, 40196989006, 40196989007, 40196989008, 40196989009

METHOD BLANK: 1962266 Matrix: Solid
Associated Lab Samples: 40196989003, 40196989004, 40196989005, 40196989006, 40196989007, 40196989008, 40196989009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/19/19 10:03	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/19/19 10:03	
Benzene	ug/kg	<9.2	20.0	10/19/19 10:03	
Ethylbenzene	ug/kg	<12.4	50.0	10/19/19 10:03	
m&p-Xylene	ug/kg	<34.4	100	10/19/19 10:03	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/19/19 10:03	
Naphthalene	ug/kg	<40.0	250	10/19/19 10:03	
o-Xylene	ug/kg	<14.0	50.0	10/19/19 10:03	
Toluene	ug/kg	<11.2	50.0	10/19/19 10:03	
4-Bromofluorobenzene (S)	%	100	54-126	10/19/19 10:03	
Dibromofluoromethane (S)	%	107	57-146	10/19/19 10:03	
Toluene-d8 (S)	%	107	64-134	10/19/19 10:03	

LABORATORY CONTROL SAMPLE: 1962267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2680	107	70-130	
Ethylbenzene	ug/kg	2500	2650	106	82-122	
m&p-Xylene	ug/kg	5000	5420	108	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2290	92	70-130	
o-Xylene	ug/kg	2500	2620	105	70-130	
Toluene	ug/kg	2500	2640	106	80-121	
4-Bromofluorobenzene (S)	%			98	54-126	
Dibromofluoromethane (S)	%			109	57-146	
Toluene-d8 (S)	%			103	64-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1962268 1962269

Parameter	Units	40196989005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1320	1320	1370	1360	104	103	70-130	1	20	
Ethylbenzene	ug/kg	<25.0	1320	1320	1360	1350	103	102	80-122	0	20	
m&p-Xylene	ug/kg	<50.0	2640	2640	2830	2800	107	106	70-130	1	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1320	1320	1210	1270	92	96	70-130	5	20	
o-Xylene	ug/kg	<25.0	1320	1320	1450	1370	110	104	70-130	6	20	
Toluene	ug/kg	<25.0	1320	1320	1360	1350	103	102	80-121	1	20	
4-Bromofluorobenzene (S)	%						108	105	54-126			
Dibromofluoromethane (S)	%						114	116	57-146			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1962268 1962269

Parameter	Units	40196989005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene-d8 (S)	%						109	108	64-134			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

QC Batch: 337850 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Short List
Associated Lab Samples: 40196989001, 40196989010, 40196989011, 40196989012, 40196989013, 40196989014, 40196989015, 40196989016, 40196989017, 40196989018, 40196989019, 40196989020, 40196989021, 40196989022, 40196989023, 40196989024, 40196989025

METHOD BLANK: 1962297 Matrix: Solid
Associated Lab Samples: 40196989001, 40196989010, 40196989011, 40196989012, 40196989013, 40196989014, 40196989015, 40196989016, 40196989017, 40196989018, 40196989019, 40196989020, 40196989021, 40196989022, 40196989023, 40196989024, 40196989025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	10/19/19 10:00	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	10/19/19 10:00	
Benzene	ug/kg	<9.2	20.0	10/19/19 10:00	
Ethylbenzene	ug/kg	<12.4	50.0	10/19/19 10:00	
m&p-Xylene	ug/kg	<34.4	100	10/19/19 10:00	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	10/19/19 10:00	
Naphthalene	ug/kg	<40.0	250	10/19/19 10:00	
o-Xylene	ug/kg	<14.0	50.0	10/19/19 10:00	
Toluene	ug/kg	<11.2	50.0	10/19/19 10:00	
4-Bromofluorobenzene (S)	%	102	54-126	10/19/19 10:00	
Dibromofluoromethane (S)	%	101	57-146	10/19/19 10:00	
Toluene-d8 (S)	%	112	64-134	10/19/19 10:00	

LABORATORY CONTROL SAMPLE: 1962298

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	2500	2490	100	70-130	
Ethylbenzene	ug/kg	2500	2540	102	82-122	
m&p-Xylene	ug/kg	5000	5270	105	70-130	
Methyl-tert-butyl ether	ug/kg	2500	2650	106	70-130	
o-Xylene	ug/kg	2500	2630	105	70-130	
Toluene	ug/kg	2500	2650	106	80-121	
4-Bromofluorobenzene (S)	%			97	54-126	
Dibromofluoromethane (S)	%			96	57-146	
Toluene-d8 (S)	%			107	64-134	

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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: 6962 BURNETT OIL
Pace Project No.: 40196989

QC Batch: 337905 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40196989001, 40196989002, 40196989003, 40196989004, 40196989005, 40196989006, 40196989007, 40196989008, 40196989009, 40196989010, 40196989011

SAMPLE DUPLICATE: 1962652

Parameter	Units	40196989005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	5.3	5.8	9	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

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

QC Batch: 337917
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40196989012, 40196989013

SAMPLE DUPLICATE: 1962670

Parameter	Units	40196989013 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	11.1	10.9	2	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

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

QC Batch: 338260 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40196989014, 40196989015, 40196989016, 40196989017, 40196989018, 40196989019, 40196989020, 40196989021, 40196989022, 40196989023, 40196989024, 40196989025

SAMPLE DUPLICATE: 1964576

Parameter	Units	40196994006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	22.8	22.0	4	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.
W	Non-detect results are reported on a wet weight basis.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962 BURNETT OIL
Pace Project No.: 40196989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40196989001	CSS#1	EPA 5035/5030B	337850	EPA 8260	337853
40196989002	CSS#2	EPA 5035/5030B	337683	EPA 8260	337685
40196989003	CSS#3	EPA 5035/5030B	337839	EPA 8260	337849
40196989004	CSS#4 @ 4'	EPA 5035/5030B	337839	EPA 8260	337849
40196989005	CSS#4 @ 12'	EPA 5035/5030B	337839	EPA 8260	337849
40196989006	CSS#5 @ 4	EPA 5035/5030B	337839	EPA 8260	337849
40196989007	CSS#5 @ 12	EPA 5035/5030B	337839	EPA 8260	337849
40196989008	CSS#6 @ 4	EPA 5035/5030B	337839	EPA 8260	337849
40196989009	CSS#6 @ 12	EPA 5035/5030B	337839	EPA 8260	337849
40196989010	CSS#7 @ 12	EPA 5035/5030B	337850	EPA 8260	337853
40196989011	CSS#8 @ 4	EPA 5035/5030B	337850	EPA 8260	337853
40196989012	CSS#8 @ 10	EPA 5035/5030B	337850	EPA 8260	337853
40196989013	CSS#9 @ 4	EPA 5035/5030B	337850	EPA 8260	337853
40196989014	CSS#9 @ 10	EPA 5035/5030B	337850	EPA 8260	337853
40196989015	CSS#10	EPA 5035/5030B	337850	EPA 8260	337853
40196989016	CSS#11	EPA 5035/5030B	337850	EPA 8260	337853
40196989017	CSS#12	EPA 5035/5030B	337850	EPA 8260	337853
40196989018	CSS#13	EPA 5035/5030B	337850	EPA 8260	337853
40196989019	CSS#14 @ 9'	EPA 5035/5030B	337850	EPA 8260	337853
40196989020	CSS#15 @ 9'	EPA 5035/5030B	337850	EPA 8260	337853
40196989021	CSS#15 @ 4'	EPA 5035/5030B	337850	EPA 8260	337853
40196989022	CSS#16	EPA 5035/5030B	337850	EPA 8260	337853
40196989023	CSS#14 @ 4'	EPA 5035/5030B	337850	EPA 8260	337853
40196989024	CSS#7 @ 4'	EPA 5035/5030B	337850	EPA 8260	337853
40196989025	CSS#17 @ 5'	EPA 5035/5030B	337850	EPA 8260	337853
40196989001	CSS#1	ASTM D2974-87	337905		
40196989002	CSS#2	ASTM D2974-87	337905		
40196989003	CSS#3	ASTM D2974-87	337905		
40196989004	CSS#4 @ 4'	ASTM D2974-87	337905		
40196989005	CSS#4 @ 12'	ASTM D2974-87	337905		
40196989006	CSS#5 @ 4	ASTM D2974-87	337905		
40196989007	CSS#5 @ 12	ASTM D2974-87	337905		
40196989008	CSS#6 @ 4	ASTM D2974-87	337905		
40196989009	CSS#6 @ 12	ASTM D2974-87	337905		
40196989010	CSS#7 @ 12	ASTM D2974-87	337905		
40196989011	CSS#8 @ 4	ASTM D2974-87	337905		
40196989012	CSS#8 @ 10	ASTM D2974-87	337917		
40196989013	CSS#9 @ 4	ASTM D2974-87	337917		
40196989014	CSS#9 @ 10	ASTM D2974-87	338260		
40196989015	CSS#10	ASTM D2974-87	338260		
40196989016	CSS#11	ASTM D2974-87	338260		
40196989017	CSS#12	ASTM D2974-87	338260		
40196989018	CSS#13	ASTM D2974-87	338260		
40196989019	CSS#14 @ 9'	ASTM D2974-87	338260		
40196989020	CSS#15 @ 9'	ASTM D2974-87	338260		
40196989021	CSS#15 @ 4'	ASTM D2974-87	338260		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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.: 40196989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40196989022	**CSS#16**	ASTM D2974-87	338260		
40196989023	**CSS#14 @ 4'**	ASTM D2974-87	338260		
40196989024	**CSS#7 @ 4'**	ASTM D2974-87	338260		
40196989025	**CSS#17 @ 5'**	ASTM D2974-87	338260		

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

Page 1 of (1/2)

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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:	REI
Branch/Location:	
Project Contact:	David Larsen
Phone:	715-675-9784
Project Number:	6962
Project Name:	Burnett Oil
Project State:	WI
Sampled By (Print):	David Larsen
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	RCRA

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, Sl = Sludge
W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) — Y/N: N, N
PRESERVATION (CODE)* — Pick Letter: F, A
Analyses Requested: PVOC/N, Dry Weight

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC/N	Dry Weight	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	CS#1	10-7-19	7:00		X	X			
002	CS#2		9:30						
003	CS#3		1:47						
004	CS#4@4		1:58						
005	CS#4@12		2:05						
006	CS#5@4		10:02						
007	CS#5@12		10:15						
008	CS#6@4		3:04						
009	CS#6@12		3:16						
010	CS#7@12		3:27						
011	CS#8@4		4:10						
012	CS#8@10	10-8-19	8:05						
013	CS#9@4		8:42						

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]	10-8-19 @ 2:23		
Walto	10/9/19 0915	[signature]	10/10/19 0915

PACE Project No. 40196989

Receipt Temp = ROI °C

Sample Receipt pH OK / Adjusted

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

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

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CHAIN OF CUSTODY

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

(Please Print Clearly)	
Company Name:	KEI
Branch/Location:	
Project Contact:	David Larsen
Phone:	715-675-9784
Project Number:	6962
Project Name:	Barnett Oil
Project State:	Wi
Sampled By (Print):	David Larsen
Sampled By (Sign):	
PO #:	
Regulatory Program:	RCRA

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: RCRA Metals	Dry Weight	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	A					
					F	A					
014	CSS#9@10	10-5-9	8:46				X	X			
015	CSS#10		11:09								
016	CSS#11		11:00								
017	CSS#12		12:10								
018	CSS#13		12:12								
019	CSS#14@9'		1:26								
020	CSS#15@9'		1:34								
021	CSS#15@4'		1:39								
022	CSS#16		1:45								
023	CSS#14@4'		1:28								
024	CSS#7@4'		4:18								
025	CSS#17@5'		4:20								

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:
	10-8-09 2:23		
Walt Co	10/9/09		

PACE Project No.: 40196989
Receipt Temp = [illegible] °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal: Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

Sample Preservation Receipt Form

Client Name: RE1 Project # 40196989

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

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

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																			\				\										2.5 / 5 / 10
002																			\				\										2.5 / 5 / 10
003																			\				\										2.5 / 5 / 10
004																			\				\										2.5 / 5 / 10
005																			\				\										2.5 / 5 / 10
006																			\				\										2.5 / 5 / 10
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Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

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

Sample Preservation Receipt Form

Client Name: REI Project #: 40196989

Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	Glass							Plastic							Vials						Jars			General									
02																			\				\										2.5 / 5 / 10
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Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO# : 40196989

40196989

Client Name: REI

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

Tracking #: 2203674

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

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

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

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

Cooler Temperature Uncorr: RU /Corr:

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

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

Person examining contents:
Date: 10/10/19
Initials: DB

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2. invoice, mail DB 10/10/19
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume: For Analysis: ☒Yes ☐No MS/MSD: ☐Yes ☒No ☐N/A		8.
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. 025 no depth DB 10/10/19
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☒No ☐N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 10-11-19