

**SITE INVESTIGATION REPORT
FREI OIL (FORMER) (BRRTS 02-14-287206)
207 HIGHWAY STREET
HORICON, WISCONSIN 53032**

PREPARED FOR:

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MAY 2018

SEYMOUR ENVIRONMENTAL SERVICES, INC.

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1.0 INTRODUCTION

Mark Franz, current owner of the property retained Seymour Environmental Services, Inc. (Seymour) to conduct the site investigation of the former Frei Oil located at 207 Highway Street in Horicon, Wisconsin (Figure 1). This investigation was conducted in response to contamination related to a former fuel storage system at the site. Contamination from the fuel system was reported to the Wisconsin Department of Natural Resources (WDNR) at the time of the tank closure in November 2001. Figure 2 shows the site layout and locations of the former tanks.

Additional investigation was conducted with a direct push rig in November of 2014. The investigation defined the extent of the soil contamination and showed that the groundwater was impacted by the release. Monitoring wells were then installed and sampled for four rounds. We are now recommending hot-spot excavation followed by post-remedial monitoring.

1.1 Background and Previous Investigation

The site is a former bulk petroleum storage facility. Eight aboveground storage tanks (ASTs) were present at the site; the ASTs were removed in June of 2001. Contamination was noted during tank closure activities and was reported to the WDNR in November of 2001.

The road bounding the west side of the site, Highway Street, is State Highway 33. In 2006 the Wisconsin DOT determined that the highway required upgrading. As part of that work a highway corridor assessment was conducted by BT Squared for the Wisconsin Department of Transportation (WDOT). The corridor assessment consisted of installation of shallow borings located at regular intervals along the highway alignment and adjacent to properties that were considered to be potential sources of contamination that may impact the highway reconstruction. During the corridor assessment 5 borings were installed near the Frei Oil site. Soil samples were collected from the borings at depth of 0 to 8 feet and were analyzed for petroleum-related volatile organic compounds (PVOCs). No analytes were identified in the soil samples collected (Table 1).

In January 2007 BT Squared returned to the site to conduct additional sampling on behalf of the WDOT. The work was performed to evaluate the environmental conditions on the Frei Oil property because the roadway reconstruction required that additional lands be acquired for the new road and right-of-way. Sixteen borings were installed on the Frei Oil Property. Six of the borings were installed along the east side of Highway Street within the newly proposed DOT easement. The remaining 10 borings were installed around the Frei Oil property focusing on the location of the former AST field. Soil samples from the borings were analyzed for VOCs, polynuclear aromatic hydrocarbons (PAHs), and/or priority metals. Elevated levels of VOCs were identified around the former ASTs and extended to the west-northwest to near Highway Street; the only VOCs identified were petroleum-related. PAHs were noted in the same general area. PAHs were also found in (DP-9) near the northwest corner of the property. Metal levels identified in the soil appear to be background levels with the exception of the high arsenic concentration identified in the soil at DP-9. Sampling locations are shown in Figure 3. Analytical results from the supplemental DOT sampling are summarized in Table 2.

1.2 Site and Consultant Information

Site Address: Frei Oil (Former)
207 Highway Street
Horicon, Wisconsin 53032
Dodge County
SW ¼ of the SW ¼ of Section 6 Township 11 North, Range 19 East

Consultant: Seymour Environmental Services, Inc.
2531 Dyreson Road
McFarland, Wisconsin 53558
Contact: Robyn Seymour (608) 838-9120

Geoprobe/Driller: Badger State Drilling
360 Business Park Circle
Stoughton, Wisconsin 53589
Contact: Mark Garwick (608) 877-9770

Laboratory: Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, Wisconsin 54302
Contact: Dan Milewsky (920) 469-2436

2.0 SITE INFORMATION

The site is located on the east side of Highway Street (Highway 33) and just south of a railroad track and siding. The surface elevation at the site is ~877.5 ft. msl. The ground surface rises slightly to the north. Surface water flow at the site is controlled by the City of Horicon storm water system. No surface water or sediments are present at the property. Soils at the site are mapped as Pella silt loam. These soils are characteristically deep, poorly-drained clayey loams with silt. The soils are underlain by glacially-derived sediment. The glacial sediments are highly variable texturally but are comprised dominantly of sandy materials deposited as pitted outwash and ice contact deposits. The glacial sediments extend to a depth of approximately 50 feet where bedrock is encountered. The bedrock is Ordovician-aged carbonates (Galena-Platteville Formation). The site is zoned I-1, limited industrial.

3.0 SITE INVESTIGATION

3.1 Geoprobe Investigation

Seymour met Badger State Drilling at the site on November 7, 2014. Both Mark Franz, the property owner and his father, who are both familiar with the site, were present during part of the fieldwork to help point out the locations of the former structures.

A total of ten borings were installed at the site. Boring locations were selected based on the results of earlier investigations conducted for the DOT. The borings were generally installed as “step-out” borings around earlier identified contamination. Soil samples were collected from 7 of the borings and groundwater samples from 8 of the borings. Soil samples were submitted to Pace Analytical for analysis of petroleum volatile organic compounds + naphthalene (PVOCs

+naph.). Five of the samples collected from shallow soils (<4 feet deep) also were analyzed for polynuclear aromatic compounds (PAHs). The location of the borings is shown on Figure 3. Boring logs and well forms are included in Appendix A.

Surficial soil encountered varied significantly across the site. At most locations the surface material was comprised of gravel placed as driveways/parking. The surface materials were underlain by organic rich clays of low plasticity to a depth of 1-6 feet. Deeper than 6 feet below grade soils encountered consisted of well grade sand across the site. Groundwater was encountered with the well grade sand at depths ranging from 5 to 7 feet below the surface.

Soil contamination exceeding the groundwater protection RCL was identified in 5 of the 7 soil samples collected for laboratory analysis. Two PVOCs were identified at levels exceeding the groundwater protection level, benzene (B-5) and naphthalene (B-3). Several PAHs were present in the soil samples at concentrations that exceed the groundwater protection level. These include; benzo(a)pyrene (B-6), benzo(b)fluoranthene (B-6), naphthalene (B-6), and chrysene (B-5, B-6, B-7, and B-8). The high levels of benzene were identified near the northwest corner of the property in some fill material. Naphthalene was also present along the north side of the former AST area in soils just above the water table. The results of the recent soil sampling are summarized on Table 3. The extent of the soil contamination is shown on Figure 4. Laboratory reports are included in Appendix B.

Groundwater samples collected from the geoprobes identified only limited contamination at the site. Samples from only two of the borings contained PVOCs at concentrations that exceed NR140 groundwater quality standards. The most severe groundwater contamination noted was present at B-4 which is located near the former Frei Oil office and 25 feet west northwest of the former bulk storage area. Three compounds, benzene, trimethylbenzenes, and naphthalene, were present above the NR140 enforcement standard (ES) in groundwater at that location. The groundwater sample collected from the boring along the north side of the former AST area (B-3) contained benzene above the NR140 preventative action limit (PAL). Low levels of PVOCs were detected in the majority of the remaining sampling locations. However, no analytes were detected at the two borings located to the east of the former AST area (B-9 and B-10). Groundwater analytical data from the geoprobes is summarized in Table 4.

3.2 Groundwater Investigation

On September 2, 2015 four monitoring wells were installed at the site. The well locations were selected based on the previously collected data. Three of the wells were installed near the former fuel storage area and the fourth well was installed near the railroad tracks where contamination was identified during the DOT sampling. No soil sampling was performed during the installation of the monitoring wells since earlier sampling had already characterized the distribution of contaminants in the soil. All of the wells were constructed as water table monitoring wells. The wells range in depth from 13.25 to 15.82 feet with a 10-foot screen.

The boring logs and well forms are included in Appendix A. Well construction and groundwater elevation data is compiled in Table 5. The groundwater analytical results from the monitoring wells are summarized on Table 6.

The first round of groundwater monitoring was conducted in September 2015. Three more rounds of sampling were conducted in January, August and November 2016. Depth to groundwater ranged from ~5 to 7 1/2 feet below grade.

During the first round of sampling on September 11, 2015 the wells were all sampled and the samples were analyzed for volatile organic compounds (VOCs) and PAHs. No VOCs were present in the sample from MW-1 and MW-4 only had MTBE present between the limit of detection (LOD) and quantitation (LOQ). The sample from MW-3 had several compounds present above their detection limits but only benzene was present at 1.1 microgram per liter (ug/l) above the preventative action limit (PAL). The heaviest contamination was present in MW-2 where benzene was present at 252 ug/l in excess of the enforcement standard (ES). Low levels of PAHs, mainly between the LOD and LOQ were present in the sample from every well, but nothing was even close to any groundwater standards. The flow direction was east-northeast. The data from this round of groundwater monitoring is shown on Figure 5

The second round of groundwater monitoring was conducted on January 28, 2016. The wells were again sampled for VOCs and PAHs. The results were similar to the first round with the only exceedance being for benzene above the ES in MW-2 and above the PAL in MW-3. Low levels of PAHs were again present in every well. The flow direction was again east-northeast. The data are shown on Figure 6.

The third round of monitoring, conducted on August 10, 2016 showed lower levels of benzene in MW-2 which was the only exceedance during this round. The samples from MW-1 and MW-3 had no detectable PVOCs. Only a very low level of MTBE was present in MW-4. The groundwater flow was again east-northeast. The data from this sampling is shown on Figure 7.

The final round of groundwater monitoring was conducted on November 29, 2016. During this round the only well that had any detectable PVOCs was MW-2 which still had benzene over the ES but at the lowest concentration since the sampling began. The groundwater flow direction was slightly south of east during this round. Figure 8 shows the November 2016 data.

On September 1, we conducted slug tests on monitoring wells MW-1 and MW-4. The recovery curves are attached in Appendix C. The hydraulic conductivity was 1.19×10^{-4} at MW-1 and 4.53×10^{-4} at MW-4.

4.0 POTENTIAL RECEPTORS

During the site work we did not encounter any utilities that intersect the identified contamination. A set of sanitary sewer lines extend northwest to southeast through the property building and ~15 feet north of B-8. Contaminant levels in this area were not severe. A storm sewer line runs east to west across the neighboring property to the south. The storm sewer is approximately 20 feet south of B-1 and B-2. No contamination was identified along the southern property boundary. In September 2017 we conducted a well reconnaissance in addition to contacting the City of Waupun to inquire about the location of any water supply wells. The nearest water-supply well (Horicon City Well #3) is located approximately 1,200 feet to the northwest of the site. The nearest surface water is the Rock River. The Rock River is located approximately 2,000 feet east of the site and flows from north to south in the area.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Petroleum-related contamination is present above WDNR action levels in both the soil and the groundwater. Contamination appears to have originated in two separate locations; the former bulk fuel storage area and the fuel load rack formerly present at the north edge of the site.

Soil exceeding the groundwater pathway RCLs was identified in both of the source areas. In the former bulk storage area both PVOCs and PAHs are present above the groundwater pathway RCLs. This contamination extends from near the surface to a depth of ~7 feet where groundwater is encountered. In the northern load rack area only PAHs were identified in the soils at concentrations exceeding the groundwater pathway RCLs. In total an estimated 2,200 cubic yards of soil exceeds the groundwater protection RCLs across the site. The majority of the soil exceeding the RCLs is at the location of the bulk fuel storage system. The results of all of the soil sampling are summarized on Table 7 (PVOCs) and Table 8 (PAHs).

Soil exceeding direct contact RCLs for PAHs was identified in each of the source areas. Soil containing PAHs exceeding the direct contact RCL for industrial properties was identified in a 450 square foot area near the west side of the former bulk storage. The industrial direct contact RCL amount is estimated to be 100 tons. Soil with PAHs exceeding the direct contact RCL for non-industrial properties was identified around both the former fuel system and the northern load rack. At the fuel storage area this contamination extends over an area of 1,850 square foot (400 tons). At the northern load rack the contamination covers ~550 square feet (120 tons).

Groundwater contamination exceeding the ES appears to be restricted to the western end of the former bulk fuel storage system.

We recommend the removal of approximately 1,400 tons of the more highly contaminated soils to promote improvement in groundwater quality. The recommended excavation includes removal of contaminated soils in both source areas. At the northern source area we recommend removal of soils containing PAHs above groundwater pathway and direct contact RCLs (200 tons). At the former bulk fuel storage system we recommend removing approximately 1,200 tons of soil with PVOCs above the groundwater pathway RCLs. This will include soils containing PAHs above the industrial direct contact RCL. Figure 9 shows the proposed excavations.

In addition to the remedial excavation, post-remedial groundwater monitoring should be conducted and a gravel direct contact barrier should be placed. After these activities are completed we believe that the site activity could be closed by the WDNR. The site closure would include GIS registry of residual contamination (soil and possibly groundwater), notification to the WDNR regarding contamination extending into the ROW, and an ongoing obligation to inspect and maintain the barrier against direct contact exposure.

Questions about this should be directed to Robyn Seymour or Mark Fryman at (608) 838-9120.

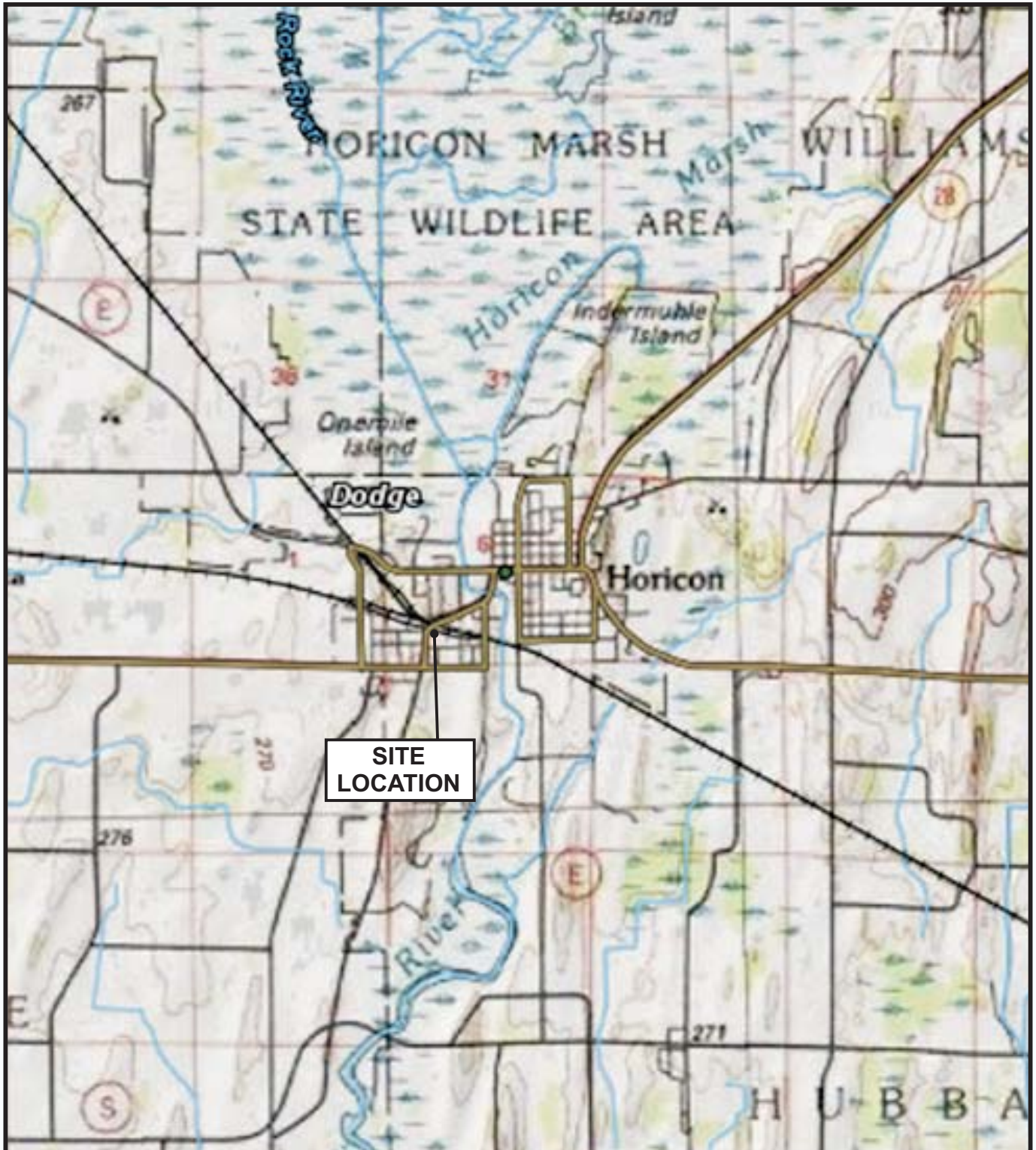
Sincerely,

Seymour Environmental Services, Inc.



Robyn Seymour

FIGURES



**SITE
LOCATION**



1 INCH = 4000 FEET
SCALE IS APPROXIMATE

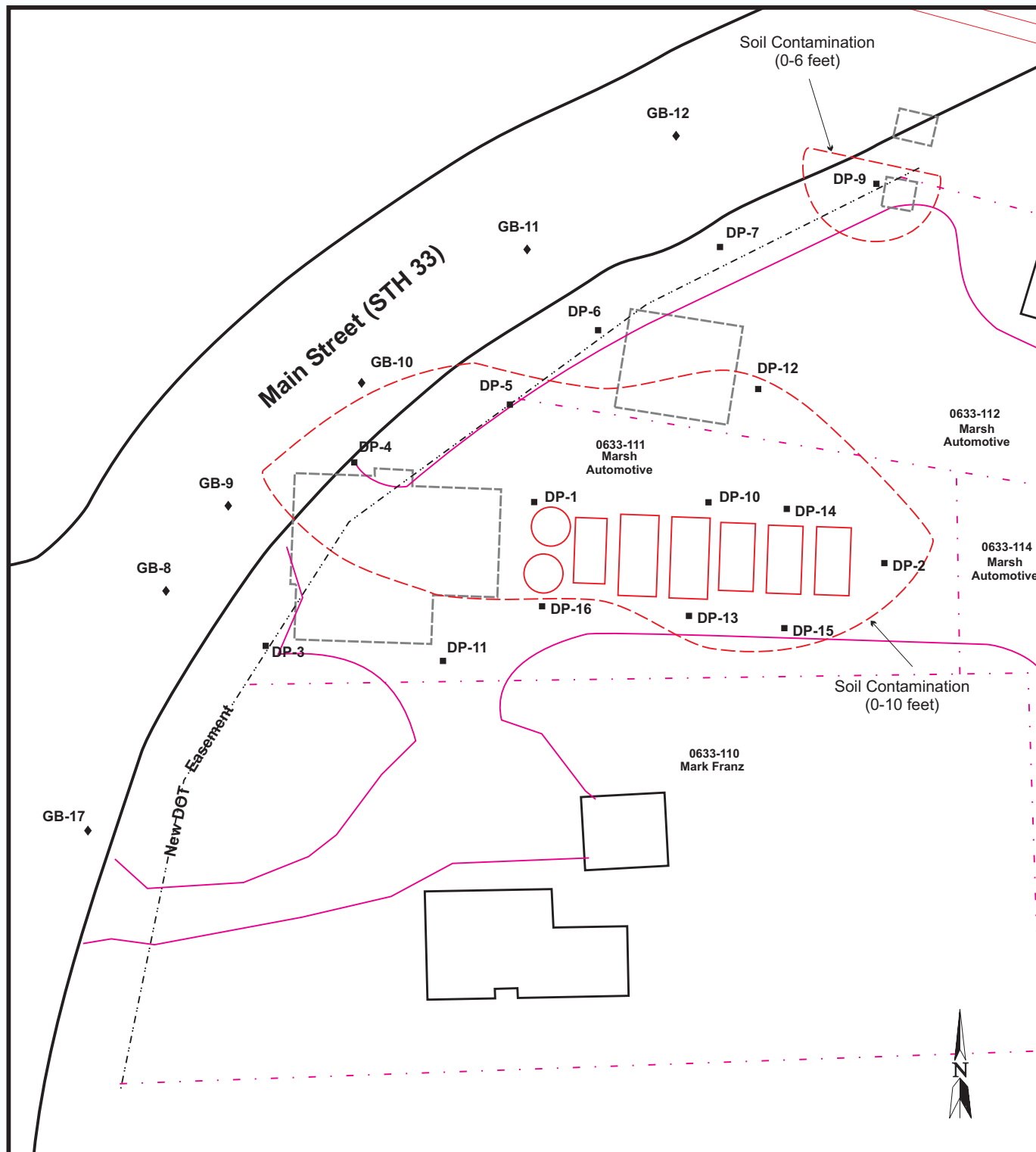
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basemap.cdr
DATE: 06/09/2014
PREPARED: MDF APPROVED:
SOURCE: USGS 7.5' Quadrangle

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SITE LOCATION
FREI OIL PROPERTY
207 Highway Street
Horicon, Wisconsin

FIGURE

1



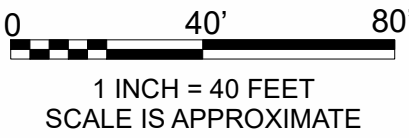
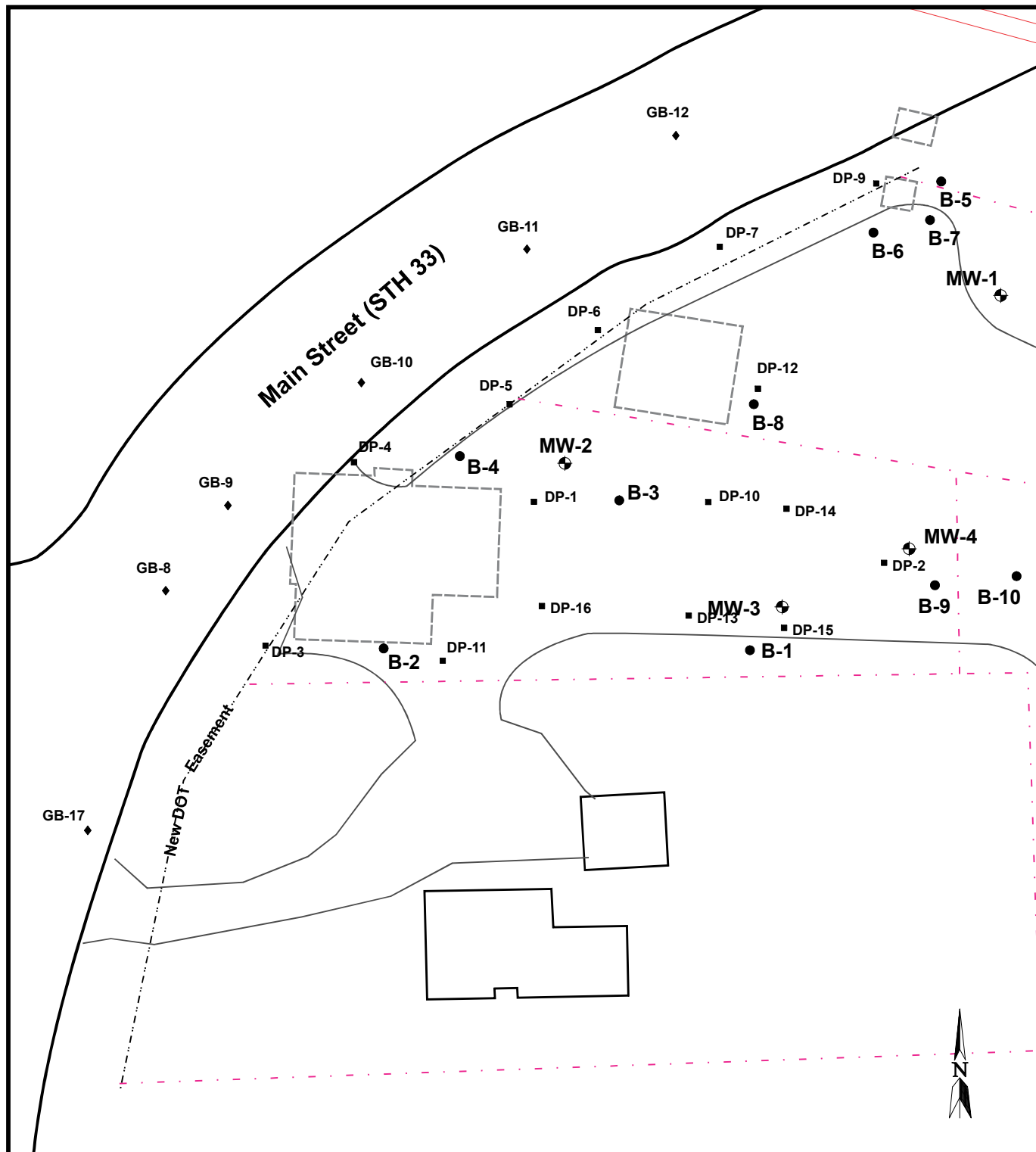
1 INCH = 40 FEET
SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\FREIOIL\
basemap.cdr
DATE: 06/09/2014
PREPARED: MDF APPROVED:
SOURCE: FIELD MEASUREMENTS

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SITE LAYOUT/IDENTIFIED CONTAMINATION
FREI OIL PROPERTY
207 Highway Street
Horicon, Wisconsin

FIGURE
2

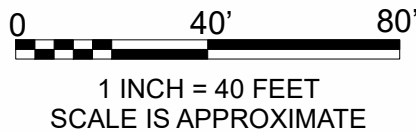
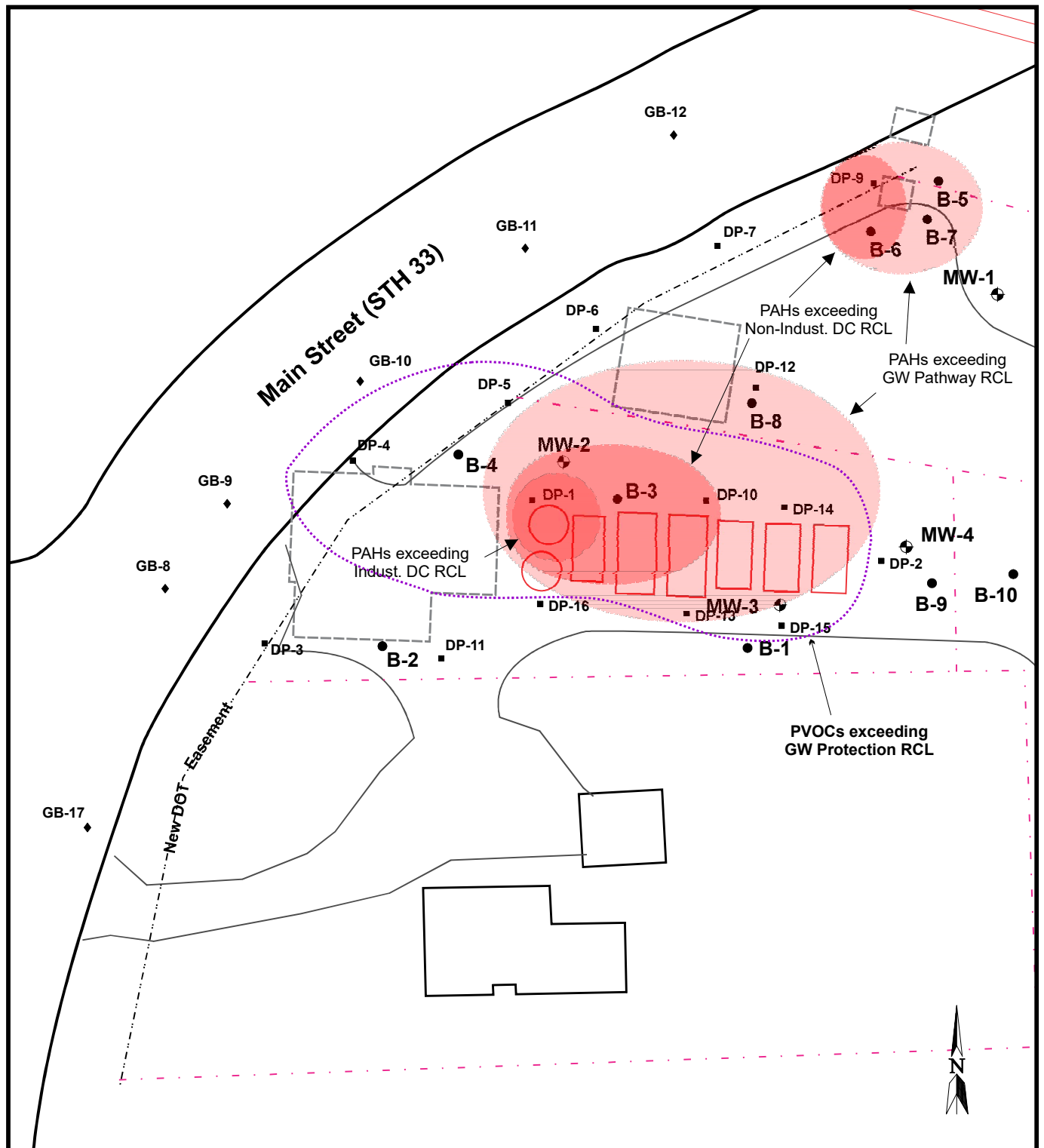


FILE/PATH: D:\PROJECTS\FreiOil\basemap.cdr
 DATE: 09/09/2015
 PREPARED: MDF APPROVED:
 SOURCE: FIELD MEASUREMENTS

**SEYMOUR
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**SAMPLING LOCATIONS
 FREY OIL PROPERTY
 207 Highway Street
 Horicon, Wisconsin**

**FIGURE
 3**

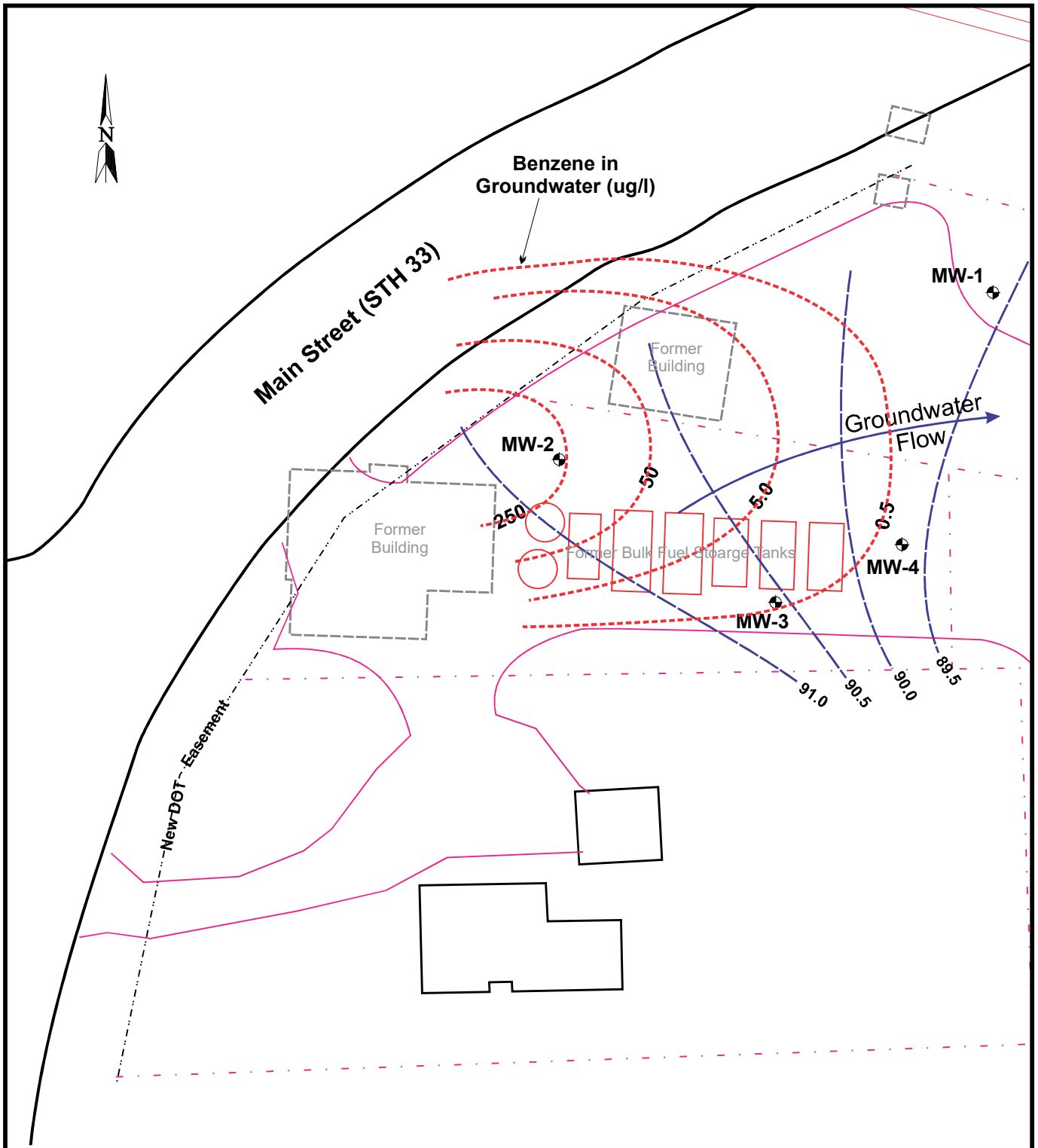


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 DATE: 06/09/2014
 PREPARED: MDF APPROVED:
 SOURCE: FIELD MEASUREMENTS

**SEYMOUR
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**SOIL CONTAMINATION DISTRIBUTION
 FREI OIL PROPERTY
 207 Highway Street
 Horicon, Wisconsin**

**FIGURE
 4**



LEGEND

MW-1
 - Monitoring Well

0 40' 80'

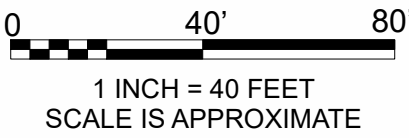
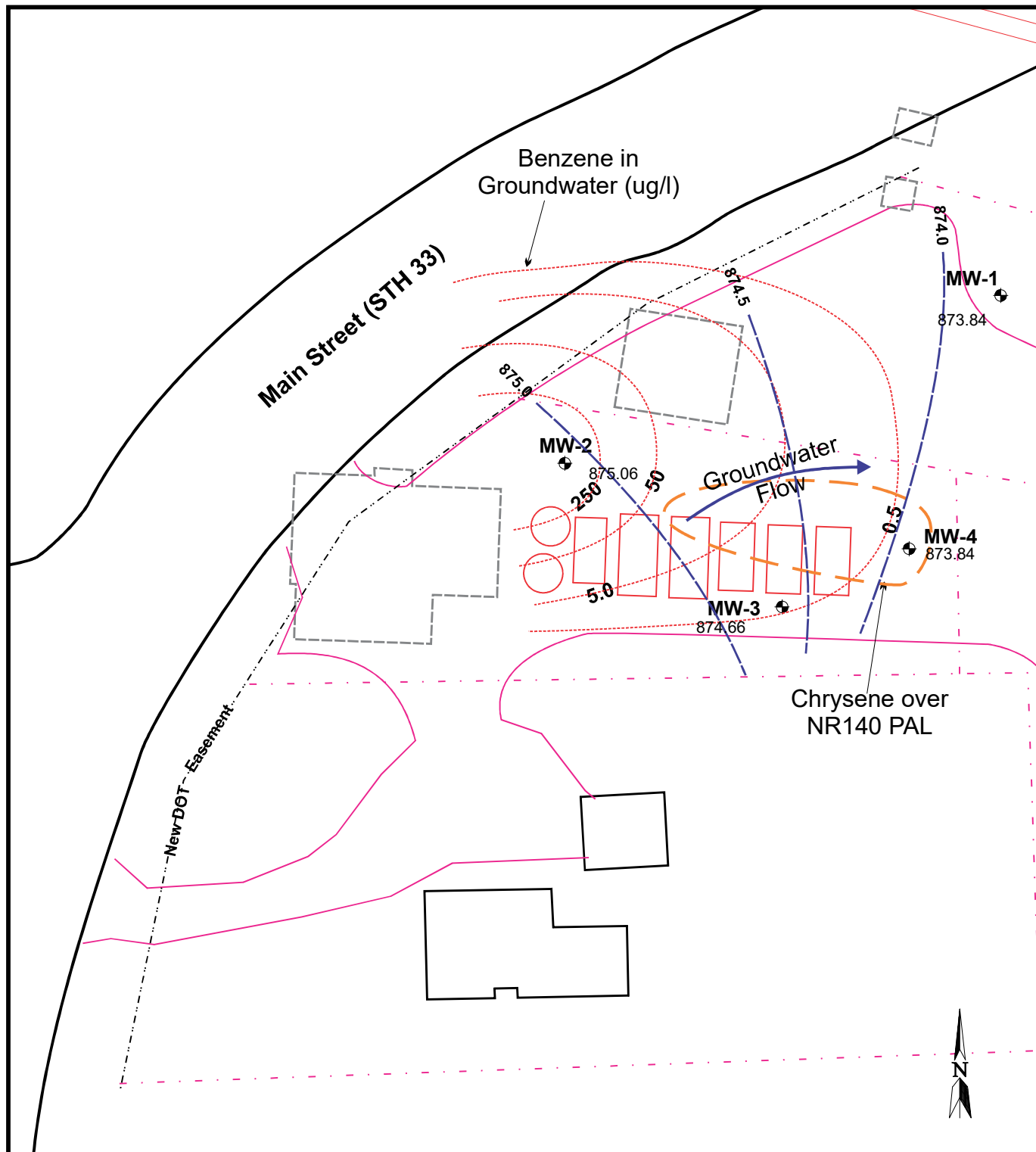
1 INCH = 40 FEET
 SCALE IS APPROXIMATE

FILE/PATH: D:\PROJECTS\FREI-OIL\
 basemap.cdr
 DATE: 09/28/2015
 PREPARED: MDF APPROVED:
 SOURCE:
 FIELD MEASUREMENTS
 WDOT /BT2 Maps

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GROUNDWATER DATA (Sept. 15)
 FREI OIL PROPERTY
 207 Highway Street
 Horicon, Wisconsin

FIGURE
5

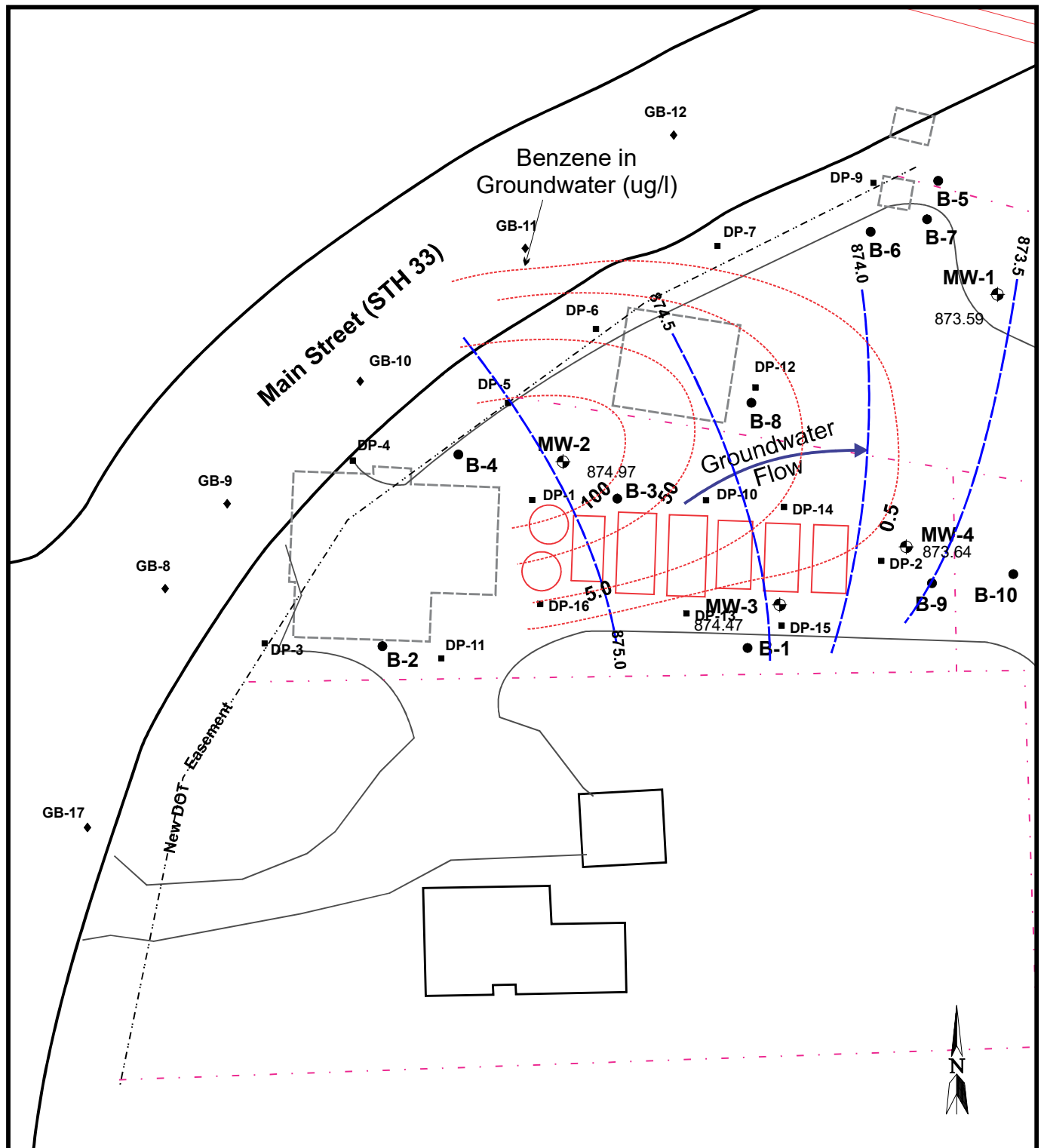


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 DATE: 03/09/2016
 PREPARED: MDF APPROVED:
 SOURCE: FIELD MEASUREMENTS

**SEYMOUR
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 SERVICES, INC.**

**GROUNDWATER DATA (Jan. 2016)
 FREI OIL PROPERTY
 207 Highway Street
 Horicon, Wisconsin**

**FIGURE
 6**



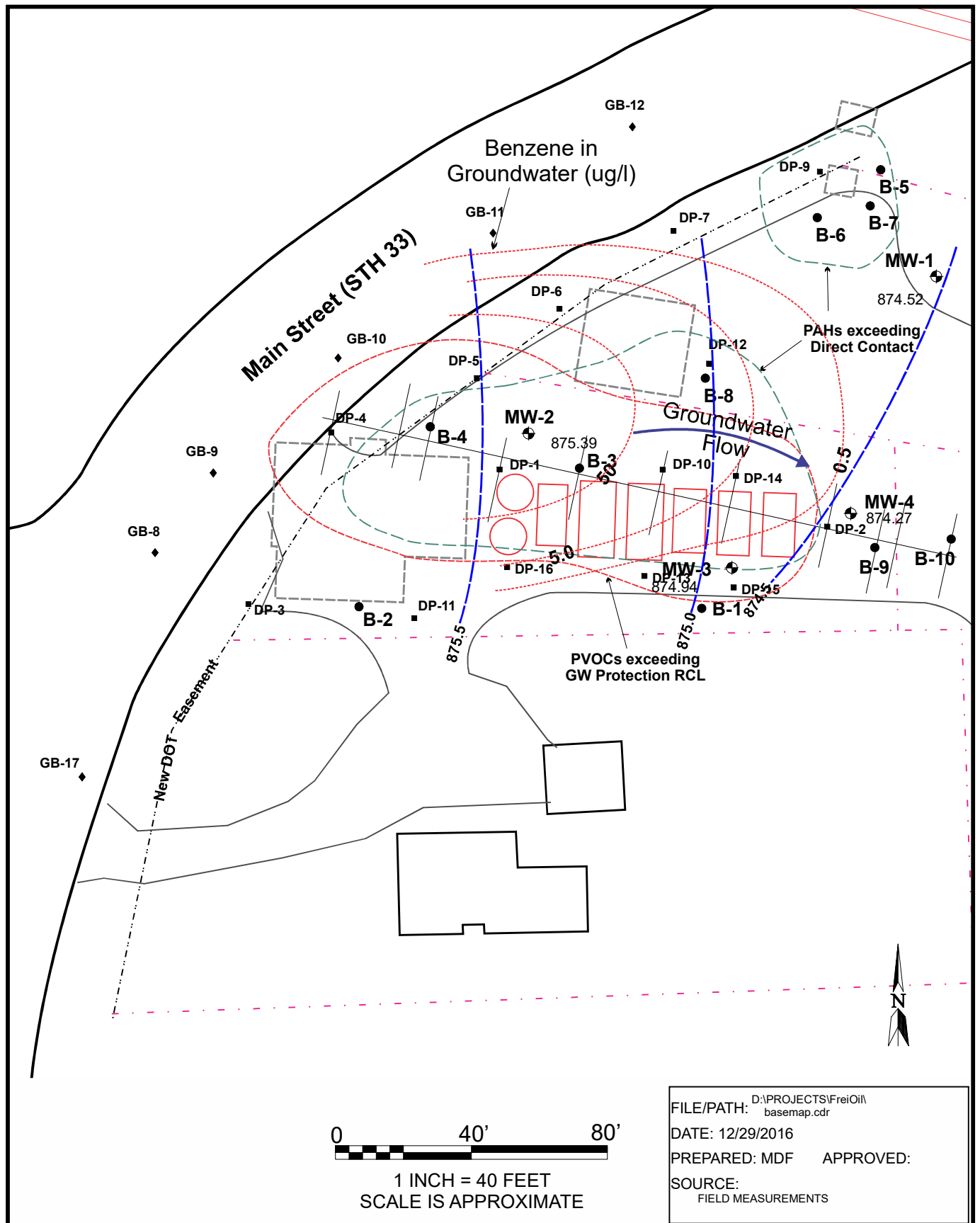
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 DATE: 08/29/2016
 PREPARED: MDF APPROVED:
 SOURCE: FIELD MEASUREMENTS

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GROUNDWATER DATA (Aug. 16)
FREI OIL PROPERTY
207 Highway Street
Horicon, Wisconsin

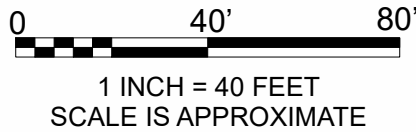
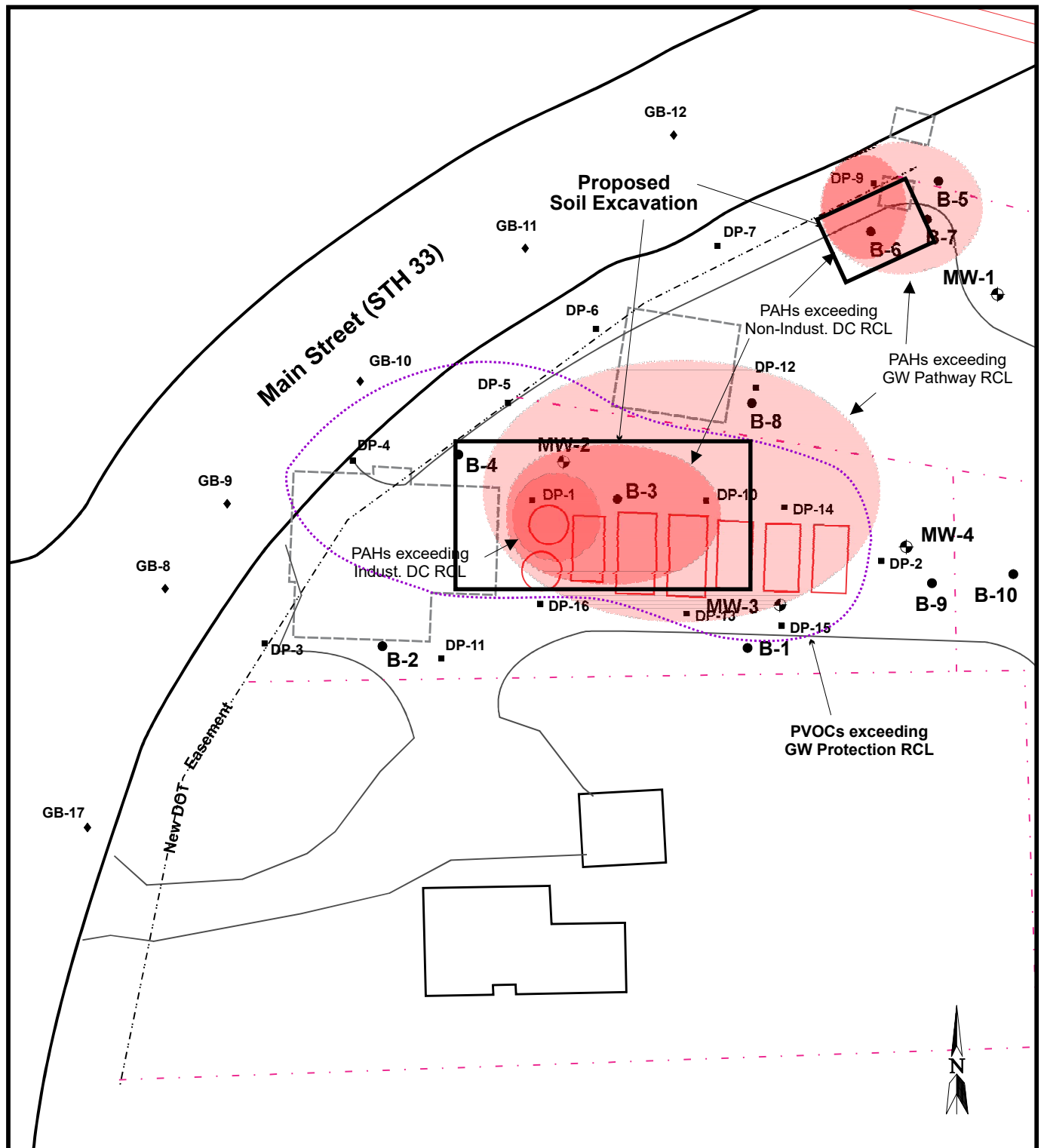
FIGURE
7



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GROUNDWATER DATA (Nov. 16)
FREI OIL PROPERTY
207 Highway Street
Horicon, Wisconsin

FIGURE
8



FILE/PATH: D:\PROJECTS\FreiOil\basemap.cdr
 DATE: 05/09/2018
 PREPARED: MDF APPROVED:
 SOURCE: FIELD MEASUREMENTS

**SEYMOUR
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 SERVICES, INC.**

**RECOMMENDED SOIL EXCAVATION MAP
 FREI OIL PROPERTY
 207 Highway Street
 Horicon, Wisconsin**

**FIGURE
 9**

TABLES

TABLE 1
SUMMARY ANALYTICAL DATA FROM CORRIDOR ASSESSMENT (03/02/2006)
Frei Oil Company
207 Highway Street - Horicon, WI

SAMPLE	GB8	GB9	GB10	GB11	GB12	Groundwater Pathway RCL	Non-Industrial Direct Contact Hazard Level
Depth (ft)	4-6	2-4	2-4	2-4	4-6		
DRO	<5.9	<5.3	9.7	5.9	<5.9	ns	ns
GRO	<6.4	<5.7	<5.7	<5.8	<6.2	ns	ns
PVOCs							
Benzene	<32	<28	<28	<29	<31	5.1	1600
1,2 Dichloroethane	na	na	na	na	na	2.8	652
Ethylbenzene	<32	<28	<28	<29	<31	1570	8020
Methyl-tert-butyl ether	<32	<28	<28	<29	<31	27	63800
Toluene	<32	<28	<28	<29	<31	1107	818000
1,3,5 Trimethylbenzenes	<32	<28	<28	<29	<31	--	182000
1,2,4 Trimethylbenzenes	<32	<28	<28	<29	<31	--	219000
Total Trimethylbenzenes	<64	<56	<56	<58	<62	1379	--
Xylenes, -m, -p	--	--	--	--	--	--	--
Xylene, -o	--	--	--	--	--	--	--
Total Xylenes	<95	<85	<85	<87	<94	3940	260000

- DRO and GRO results are listed in mg/kg
- PVOC results are listed in ug/kg
- na = not analyzed
- ns = no standard established

- Groundwater Protection RCL (exceedances bold)
- Direct Contact Hazard Non-industrial (exceedances underlined)
- Direct Contact Hazard Industrial (exceedances shaded)
- All standards from R&R calculator using Wisconsin defaults

TABLE 2 (page 1 of 2)
SUMMARY OF SUPPLEMENTAL DOT SOIL ANALYTICAL DATA (1/05/2007)
Frei Oil Company
207 Highway Street - Horicon, WI

SAMPLE	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP9	DP10	DP11	DP12	DP13	DP14	DP15	DP16	Groundwater	Direct Contact
Depth (ft)	2-4	0-2	6-8	6-8	2-4	2-4	4-6	2-4	2-4	2-4	0-2	2-4	0-2	2-4	2-4	Pathway	Non-Industrial
DRO	14000	<5.1	<4.6	600	2100	<4.8	<4.7	160	2600	<4.8	62	2100	20	400	14	ns	ns
VOCs																	
Benzene	<u>4100</u>	<25	<25	1300	1100	<25	<25	<25	<120	<25	<26	<25	<25	<25	<25	5.1	1600
1,2 Dichloroethane	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	2.8	652
Ethylbenzene	<u>27000</u>	<25	<25	1500	2200	<25	<25	<25	5400	<25	<26	310	<25	91	56	1570	8020
Methyl-tert-butyl ether	<500	<25	<25	<100	<25	<25	<25	<25	<120	<25	<26	<25	<25	<25	<25	27	63800
Toluene	<500	<25	<25	<100	96	<25	<25	94	<120	<25	<26	<25	<25	<25	<25	1107	818000
1,3,5 Trimethylbenzene	32000	<25	<25	3500	1400	<25	<25	<25	4600	<25	<26	510	<25	430	94	--	182000
1,2,4 Trimethylbenzene	<u>90000</u>	<25	<25	11000	4600	<25	<25	51	31000	<25	<26	5900	<25	1300	260	--	219000
Total Trimethylbenzenes	122000	<50	<50	14500	6000	<50	<50	51	35600	<50	<52	6410	<50	1730	354	1379	--
Total Xylenes	99100	<75	<75	6000	7100	<75	<75	186	21190	<75	<78	1000	<75	180	110	3940	260000
Naphthalene	<u>43000</u>	<25	<25	5400	790	<25	<25	80	<u>8000</u>	<25	<26	1900	<25	900	92	658.7	5520
n-Butylbenzene	14000	<25	<25	2200	480	<25	<25	<25	5500	<25	<26	800	<25	460	100	--	
s-Butylbenzene	3800	<25	<25	5200	87	<25	<25	<25	2300	<25	<26	150	<25	170	38	--	
Isopropylbenzene	4000	<25	<25	410	190	<25	<25	<25	1500	<25	<26	120	<25	86	<25	--	
p-Isopropyltoluene	7800	<25	<25	1400	170	<25	<25	<25	3200	<25	<26	310	<25	280	72	--	
n-Propylbenzene	9700	<25	<25	1000	640	<25	<25	<25	4100	<25	<26	460	<25	170	45	--	

- DRO and Metal results are listed in mg/kg
- VOC and PAH results are listed in ug/kg
- na = not analyzed
- ns = no standard established

- Groundwater Protection RCL (exceedances bold)
- Direct Contact Hazard Non-industrial (exceedances underlined)
- Direct Contact Hazard Industrial (exceedances shaded)
- All standards from R&R calculator using Wisconsin defaults

TABLE 2 (page 2 of 2)
SUMMARY OF SUPPLEMENTAL DOT SOIL ANALYTICAL DATA (1/05/2007)
Frei Oil Company
207 Highway Street - Horicon, WI

SAMPLE	DP1	DP2	DP3	DP4	DP5	DP6	DP7	DP9	DP10	DP11	DP12	DP13	DP14	DP15	DP16	Groundwater	Direct Contact
Depth (ft)	2-4	0-2	6-8	6-8	2-4	2-4	4-6	2-4	2-4	2-4	0-2	2-4	0-2	2-4	2-4	Pathway	Non-Industrial
PAHS																	
Acenaphthene	7200	<4.0	na	140	na	<3.7	na	<13	na	<3.7	na	na	na	240	na	--	3,590,000
Acenaphthylene	2000	<3.9	na	45	na	<3.6	na	<12	na	<3.6	na	na	na	85	na	--	--
Anthracene	3100	<4.8	na	82	na	<4.4	na	22	na	<4.4	na	na	na	100	na	196,744	17,900,000
Benzo(a)anthracene	<u><740</u>	7.6	na	<55	na	9.3	na	<u>1300</u>	na	<6.6	na	na	na	<45	na	--	1140
Benzo(a)pyrene	<u><400</u>	9.5	na	<30	na	6.5	na	940	na	5.3	na	na	na	<24	na	470	115
Benzo(b)fluoranthene	<390	10	na	<29	na	6.5	na	<u>2000</u>	na	8.0	na	na	na	<24	na	480	1150
Benzo(g,h,i)perylene	<500	5.7	na	<37	na	4.6	na	790	na	5.8	na	na	na	<30	na	--	--
Benzo(k)fluoranthene	<430	9.0	na	<32	na	6.0	na	1000	na	5.9	na	na	na	<26	na	--	11,500
Dibenzo(a,h)anthracene	<380	<3.7	na	<28	na	<3.4	na	<u>280</u>	na	<3.4	na	na	na	<23	na	--	115
Chrysene	<610	10	na	<45	na	8.4	na	1700	na	<5.4	na	na	na	<37	na	145.1	115,000
Fluoranthene	<400	14	na	<30	na	13	na	1100	na	3.9	na	na	na	27	na	88,818	2,390,000
Fluorene	11000	<4.6	na	230	na	<4.2	na	<15	na	<4.2	na	na	na	420	na	14,815	2,390,000
Indeno(1,2,3-cd)pyrene	<u><350</u>	5.0	na	<26	na	3.8	na	<u>720</u>	na	4.6	na	na	na	<21	na	--	1150
1-Methylnaphthalene	<u>83000</u>	4.4	na	1900	na	18	na	15	na	<3.8	na	na	na	3200	na	--	17,600
2-Methylnaphthalene	130000	6.7	na	3200	na	29	na	18	na	<3.9	na	na	na	3900	na	--	239,000
Naphthalene	<u>25000</u>	<5.4	na	600	na	9.2	na	<17	na	<5.0	na	na	na	340	na	658.7	5520
Phenanthrene	27000	8.2	na	710	na	11	na	100	na	<3.7	na	na	na	770	na	--	--
Pyrene	820	11	na	<25	na	10	na	1200	na	3.1	na	na	na	22	na	54,772	1,790,000
METALS																	
Arsenic	na	na	na	na	1.9	na	na	120	<1.2	na	na	na	na	na	na	0.584	0.677
Barium	na	na	na	na	150	na	na	76	44	na	na	na	na	na	na	164.8	15,300
Cadmium	na	na	na	na	0.085	na	na	<0.13	0.075	na	na	na	na	na	na	0.752	71.7
Chromium	na	na	na	na	20	na	na	29	14	na	na	na	na	na	na	360,000	100,000
Lead	na	na	na	na	9.7	na	na	21	8.0	na	na	na	na	na	na	27	400

- DRO and Metal results are listed in mg/kg

- VOC and PAH results are listed in ug/kg

- na = not analyzed

- ns = no standard established

- All standards from R&R calculator using Wisconsin defaults

- Groundwater Protection RCL (exceedances bold)

- Direct Contact Hazard Non-industrial (exceedances underlined)

- Direct Contact Hazard Industrial (exceedances outlined)

- Shaded Metal values exceed WDNR established background levels

TABLE 3
SUMMARY OF GEOPROBE SOIL ANALYTICAL DATA (11/07/2014)
Frei Oil Company
207 Highway Street - Horicon, WI

SAMPLE	B-1	B-3	B-5	B-6	B-7	B-8	B-9	Groundwater Pathway RCL	Non-Industrial Direct Contact Hazard Level
Depth (ft)	7	7	3.5	3	3.5	3.5	3.5		
DRO	na	na	na	na	na	na	na	ns	ns
GRO	na	na	na	na	na	na	na	ns	ns
PVOCS									
Benzene	<25.0	<25.0	227	<25.0	<35.2	<27.5	<25.0	5.1	1600
1,2 Dichloroethane	na	na	na	na	na	nd	na	2.8	652
Ethylbenzene	<25.0	38.8 (J)	<25.0	<25.0	44.2 (J)	<27.5	<25.0	1570	8020
Methyl-tert-butyl ether	<25.0	<25.0	<25.0	<25.0	<35.2	<27.5	<25.0	27	63800
Toluene	<25.0	<25.0	110	<25.0	105	<27.5	<25.0	1107	818000
1,3,5 Trimethylbenzenes	<25.0	99.5	<25.0	<25.0	135	<27.5	<25.0	--	182000
1,2,4 Trimethylbenzenes	<25.0	242	56.2	<25.0	184	<27.5	<25.0	--	219000
Total Trimethylbenzenes	<50.0	341.5	56.2	<50.0	319	<55.0	<50.0	1379	--
Xylenes, -m, -p	--	--	--	--	--	--	--	--	--
Xylene, -o	--	--	--	--	--	--	--	--	--
Total Xylenes	<75.0	<75.0	146.4 (J)	<75.0	264	<81.4	<75.0	3940	260000
Naphthalene	<25.0	679	132	<25.0	304	<27.5	<25.0	658.7	5520
PAHS									
Acenaphthene	na	na	<9.3	<39.3	51.1 (J)	<11.1	<10.8	--	3,590,000
Acenaphthylene	na	na	38.2	194	59.3 (J)	33.4	<9.6	--	--
Anthracene	na	na	35.8	341	282	35.8	<11.2	196,744	17,900,000
Benzo(a)anthracene	na	na	146	<u>787</u>	<u>241</u>	<u>368</u>	<7.5	--	1140
Benzo(a)pyrene	na	na	<u>178</u>	1090	<u>157</u>	363	<7.7	470	115
Benzo(b)fluoranthene	na	na	275	755	224	256	<10.8	480	1150
Benzo(g,h,i)perylene	na	na	180	1180	113	167	<8.2	--	--
Benzo(k)fluoranthene	na	na	191	585	174	347	<11.9	--	11,500
Dibenzo(a,h)anthracene	na	na	<u>62.9</u>	583	<u>42.4 (J)</u>	<u>75.5</u>	<7.9	--	115
Chrysene	na	na	261	1270	397	349	<9.9	145.1	115,000
Fluoranthene	na	na	178	768	471	420	<10.8	88,818	2,390,000
Fluorene	na	na	17	81.2	58.3 (J)	<11.1	<10.8	14,815	2,390,000
Indeno(1,2,3-cd)pyrene	na	na	146	<u>654</u>	75.6	<u>181</u>	<8.2	--	1150
1-Methylnaphthalene	na	na	283	703	629	11.9 (J)	<10.8	--	17,600
2-Methylnaphthalene	na	na	292	1130	705	21.9 (J)	<10.8	--	239,000
Naphthalene	na	na	236	830	597	45.9	<10.8	658.7	5520
Phenanthrene	na	na	329	1330	1110	44.8	<10.8	--	--
Pyrene	na	na	175	1030	398	422	<10.8	54,772	1,790,000

- All results are listed in ug/kg
- na = not analyzed
- ns = no standard established
-(J) = Below the limit of quantitation

- Groundwater Protection RCL (exceedances bold)
- Direct Contact Hazard Non-industrial (exceedances underlined)
- Direct Contact Hazard Industrial (exceedances outlined)
- All standards from R&R calculator using Wisconsin defaults

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL DATA GEOPROBES (11/07/14)
Frei Oil
207 Highway Street - Horicon, WI

Sample I.D.	B-1	B-2	B-3	B-4	B-7	B-8	B-9	B-10	NR140	
PVOCs									ES	PAL
Benzene	0.46 (J)	<0.40	<i>1.5</i>	61	0.42 (J)	<0.40	<0.40	<0.40	5	0.5
1,2 Dichloroethane	na	na	na	na	na	na	na	na	5	0.5
Ethylbenzene	<0.39	<0.39	5.3	112	0.52 (J)	<0.39	<0.39	<0.39	700	140
Methyl-tert-butyl ether	<0.48	<0.48	<0.48	<2.4	<0.48	0.70 (J)	<0.48	<0.48	60	12
Toluene	0.61 (J)	0.77 (J)	0.66 (J)	3.8 (J)	0.50 (J)	<0.39	<0.39	<0.39	800	160
1,3,5 Trimethylbenzene	<0.42	<0.42	2.9	107	2.2	<0.42	<0.42	<0.42	ns	ns
1,2,4 Trimethylbenzene	<0.42	<0.42	11.5	384	5.9	<0.42	<0.42	<0.42	ns	ns
Total Trimethylbenzenes	<0.84	<0.84	14	491	8.1	<0.84	<0.84	<0.84	480	96
Xylenes, -m, -p	<0.80	<0.80	6.6	336	2.6	<0.80	<0.80	<0.80	ns	ns
Xylene, -o	<0.45	<0.45	0.52	7.3	<0.45	<0.45	<0.45	<0.45	ns	ns
Total Xylenes	<1.25	<1.25	7.12	343	2.6	<1.25	<1.25	<1.25	2000	400
Naphthalene	<0.42	0.49 (J)	8.0	181	3.9	<0.42	<0.42	<0.42	100	10

- All results are reported in ug/l
- na = not analyzed
- ns = no standard established

- NR140 ES = Enforcement Standard (exceedances bold)
- NR140 PAL = Preventative Action Limit (exceedances italicized)
- (J) = Values estimated by lab; below limit of quantitation

TABLE 5
SUMMARY OF WELL CONSTRUCTION AND GROUNDWATER LEVEL DATA
Frei Oil - 207 Highway Street
Horicon, WI

WELL CONSTRUCTION DETAILS

WELL	Date Installed	Top of Casing Elevation	Well Depth	Screen Length	Top of Screen Elevation	Base of Screen Elevation
MW-1	09/03/2015	880.74	15.82	10	874.92	864.92
MW-2	09/03/2015	881.61	14.75	10	876.86	866.86
MW-3	09/03/2015	880.03	14.60	10	875.43	865.43
MW-4	09/03/2015	879.37	13.25	10	876.12	866.12

WATER LEVEL DATA

WELL	Date	9/11/2015		01/28/16		08/10/16		11/29/16	
	Top of Casing Elevation	Groundwater Depth	Groundwater Elevation	Groundwater Depth	Groundwater Elevation	Groundwater Depth	Groundwater Elevation	Groundwater Depth	Groundwater Elevation
MW-1	880.74	7.33	873.41	6.90	873.84	7.15	873.59	6.22	874.52
MW-2	881.61	6.93	874.68	6.55	875.06	6.64	874.97	6.22	875.39
MW-3	880.03	5.60	874.43	5.37	874.66	5.56	874.47	5.09	874.94
MW-4	879.37	5.88	873.49	5.53	873.84	5.73	873.64	5.10	874.27
Hydraulic Gradient		0.0144 ft/ft N78°E		0.0138 ft/ft N78°E		0.0139 ft/ft N78°E		0.0094 ft/ft S86°E	

- Depth and Length values are listed in feet
- Elevation data listed in feet above mean sea level (NGVD 1929)

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL DATA
Frei Oil
207 Highway Street - Horicon, WI

Sample I.D.	B-1	B-2	B-3	B-4	B-7	B-8	B-9	B-10	MW-1				MW-2				MW-3				MW-4				NR140	
Date	11/07/14	11/07/14	11/07/14	11/07/14	11/07/14	11/07/14	11/07/14	11/07/14	09/11/15	01/28/16	08/10/16	11/29/16	09/11/15	01/28/16	08/10/16	11/29/16	09/11/15	01/28/16	08/10/16	11/29/16	09/11/15	01/28/16	08/10/16	11/29/16	ES	PAL
VOCs/PVOCs																										
Benzene	0.46	<0.40	1.5	61	0.42	<0.40	<0.40	<0.40	<0.50	<0.50	<0.40	<0.40	252	432	177	87.9	1.1	1.2	<0.40	<0.40	<0.50	<0.50	<0.40	<0.40	5	0.5
1,2 Dichloroethane	na	na	na	na	na	na	na	na	<0.17	<0.17	na	na	<0.17	<0.34	na	na	<0.17	<0.17	na	na	<0.17	<0.17	na	na	5	0.5
Ethylbenzene	<0.39	<0.39	5.3	112	0.52	<0.39	<0.39	<0.39	<0.50	<0.50	<0.39	<0.39	63.8	139	13.7	9.1	2.2	2.1	<0.39	<0.39	<0.50	<0.50	<0.39	<0.39	700	140
Methyl-tert-butyl ether	<0.48	<0.48	<0.48	<2.4	<0.48	0.70	<0.48	<0.48	<0.17	<0.17	<0.48	<0.48	<0.17	1.4J	2.4	1.7	<0.17	<0.17	<0.48	<0.48	0.50J	0.36J	0.76J	<0.48	60	12
Toluene	0.61	0.77	0.66	3.8	0.50	<0.39	<0.39	<0.39	<0.50	<0.50	<0.39	<0.39	4.5	5.0	1.8	1.5	<0.50	<0.50	<0.39	<0.39	<0.50	<0.50	<0.39	<0.39	800	160
1,3,5 Trimethylbenzene	<0.42	<0.42	2.9	107	2.2	<0.42	<0.42	<0.42	<0.50	<0.50	<0.42	<0.42	7.0	<1.0	0.78J	1.6	1.3	<0.50	<0.42	<0.42	<0.50	<0.50	<0.42	<0.42	ns	ns
1,2,4 Trimethylbenzene	<0.42	<0.42	11.5	384	5.9	<0.42	<0.42	<0.42	<0.50	<0.50	<0.42	<0.42	26.0	15.3	7.2	10.3	4.5	0.84J	<0.42	<0.42	<0.50	<0.50	<0.42	<0.42	ns	ns
Total Trimethylbenzenes	<0.84	<0.84	14	491	8.1	<0.84	<0.84	<0.84	<1.00	<1.00	<0.84	<0.84	33.0	15.3	7.98	11.9	5.8	0.84J	<0.84	<0.84	<1.00	<1.00	<0.84	<0.84	480	96
Xylenes, -m, -p	<0.80	<0.80	6.6	336	2.6	<0.80	<0.80	<0.80	<1.0	<1.0	<0.80	<0.80	141	54.7	28.5	27.7	4.5	1.0J	<0.80	<0.80	<1.0	<1.0	<0.80	<0.80	ns	ns
Xylene, -o	<0.45	<0.45	0.52	7.3	<0.45	<0.45	<0.45	<0.45	<0.50	<0.50	<0.45	<0.45	1.6	<1.0	<0.45	<0.45	<0.50	<0.50	<0.45	<0.45	<0.50	<0.50	<0.45	<0.45	ns	ns
Total Xylenes	<1.25	<1.25	7.12	343	2.6	<1.25	<1.25	<1.25	<1.5	<1.5	<1.25	<1.25	142.6	54.7	28.5	27.7	4.5	1.0J	<1.25	<1.25	<1.5	<1.5	<1.25	<1.25	2000	400
Naphthalene	<0.42	0.49	8.0	181	3.9	<0.42	<0.42	<0.42	<2.5	<2.5	<0.42	<0.42	4.5	<u>14.8</u>	1.5	3.5	8.3	5.9	<0.42	<0.42	<2.5	<2.5	<0.42	<0.42	100	10
n-butylbenzene	na	na	na	na	na	na	na	na	<0.50	<0.50	na	na	<0.50	1.1J	na	na	0.64	<0.50	na	na	<0.50	<0.50	na	na	ns	ns
Isopropylbenzene	na	na	na	na	na	na	na	na	<0.14	<0.14	na	na	1.4	1.4J	na	na	0.52	<0.14	na	na	<0.14	<0.14	na	na	ns	ns
n-propylbenzene	na	na	na	na	na	na	na	na	<0.50	<0.50	na	na	2.9	10.3	na	na	0.68	1.3	na	na	<0.50	<0.50	na	na	ns	ns
Chloroethane	na	na	na	na	na	na	na	na	<0.37	<0.37	na	na	<0.37	2.4	na	na	<0.37	<0.37	na	na	<0.37	<0.37	na	na	400	80
PAHs																										
Acenaphthrene	na	na	na	na	na	na	na	na	<0.0048	<0.0045	na	na	0.072	0.066	na	na	0.076	0.10	na	na	<0.0052	<0.0046	na	na	ns	ns
Acenaphthylene	na	na	na	na	na	na	na	na	<0.0048	<0.0045	na	na	0.033J	0.014J	na	na	0.026J	0.014J	na	na	<0.0052	<0.0046	na	na	ns	ns
Anthracene	na	na	na	na	na	na	na	na	<0.0039	<0.0037	na	na	0.012J	0.021J	na	na	<0.0037	0.0048J	na	na	<0.0043	0.0062J	na	na	3000	600
Benzo(a)anthracene	na	na	na	na	na	na	na	na	<0.0050	<0.0047	na	na	<0.0048	0.0073J	na	na	<0.0048	<0.0047	na	na	<0.0054	<0.0048	na	na	ns	ns
Benzo(a)pyrene	na	na	na	na	na	na	na	na	<0.0043	0.0044J	na	na	<0.0041	<0.0040	na	na	<0.0041	<0.0040	na	na	<0.0047	<0.0041	na	na	0.2	0.02
Benzo(b)fluoranthene	na	na	na	na	na	na	na	na	<0.0052	0.0071J	na	na	<0.0049	<0.0048	na	na	<0.0049	<0.0048	na	na	<0.056	<0.0050	na	na	0.2	0.02
Benzo(g,h,i)perylene	na	na	na	na	na	na	na	na	<0.0034	0.0082J	na	na	<0.0032	<0.0032	na	na	<0.0032	<0.0032	na	na	<0.037	0.0035J	na	na	ns	ns
Benzo(k)fluoranthene	na	na	na	na	na	na	na	na	<0.0055	<0.0051	na	na	<0.0052	<0.0051	na	na	<0.0052	<0.0051	na	na	<0.0059	<0.0053	na	na	ns	ns
Chrysene	na	na	na	na	na	na	na	na	0.010J	0.017J	na	na	0.0060J	<0.0038	na	na	0.0066J	<0.0039	na	na	0.010J	<u>0.021J</u>	na	na	0.2	0.02
Dibenzo(a,h)anthracene	na	na	na	na	na	na	na	na	<0.0054	<0.0051	na	na	<0.0051	<0.0050	na	na	<0.0051	<0.0051	na	na	<0.059	<0.0052	na	na	ns	ns
Fluoranthene	na	na	na	na	na	na	na	na	<0.0091	0.011J	na	na	<0.0087	<0.0085	na	na	<0.0087	<0.0085	na	na	<0.0099	<0.0088	na	na	400	80
Fluorene	na	na	na	na	na	na	na	na	<0.0039	0.0043J	na	na	0.029J	0.054	na	na	0.042J	0.078	na	na	<0.0043	<0.0038	na	na	400	80
Indeno(1,2,3-cd)pyrene	na	na	na	na	na	na	na	na	<0.0035	<0.0033	na	na	<0.0033	<0.0032	na	na	<0.0033	<0.0033	na	na	<0.0038	<0.0033	na	na	ns	ns
1-Methylnaphthalene	na	na	na	na	na	na	na	na	0.010J	0.019J	na	na	0.033J	0.95	na	na	0.052	0.76	na	na	0.017J	0.0088J	na	na	ns	ns
2-Methylnaphthalene	na	na	na	na	na	na	na	na	0.0051J	0.0078J	na	na	0.034J	0.36	na	na	0.045J	0.076	na	na	0.0083J	0.0074J	na	na	ns	ns
Naphthalene	na	na	na	na	na	na	na	na	0.0070J	<0.0041	na	na	0.071	1.9	na	na	0.028J	0.17	na	na	0.0084J	0.0058J	na	na	100	10
Phenanthrene	na	na	na	na	na	na	na	na	0.016J	0.041J	na	na	0.014J	0.049	na	na	0.013J	0.029J	na	na	0.022J	0.017J	na	na	ns	ns
Pyrene	na	na	na	na	na	na	na	na	0.0079J	0.022J	na	na	0.0092J	<0.0069	na	na	<0.0071	<0.0070	na	na	0.013J	0.011J	na	na	250	50

- All results are reported in ug/l
- na = not analyzed

- ns = no standard established
- J = Values below limit of quantitation and estimated by laboratory

- NR140 ES = Enforcement Standard (exceedances bold)
- NR140 PAL = Preventative Action Limit (exceedances *italicized*)

TABLE 7
SUMMARY OF PVOC SOIL ANALYTICAL DATA
Frei Oil Company
207 Highway Street - Horicon, WI

Date	SAMPLE	Depth (ft)	DRO	GRO	Benzene	Ethylbenzene	Methyl-tert-butyl ether	Toluene	1,3,5 Trimethylbenzene	1,2,4 Trimethylbenzene	Total Trimethylbenzenes	Total Xylenes	Naphthalene
03/02/06	GB8	4-6	<5.9	<6.4	<32	<32	<32	<32	<32	<32	<64	<95	na
	GB9	2-4	<5.3	<5.7	<28	<28	<28	<28	<28	<28	<56	<85	na
	GB10	2-4	9.7	<5.7	<28	<28	<28	<28	<28	<28	<56	<85	na
	GB11	2-4	5.9	<5.8	<29	<29	<29	<29	<29	<29	<58	<87	na
	GB12	4-6	<5.9	<6.2	<31	<31	<31	<31	<31	<31	<62	<94	na
01/05/07	DP1	2-4	14000	na	<u>4100</u>	<u>27000</u>	<500	<500	32000	<u>90000</u>	122000	99100	43000
	DP2	0-2	<5.1	na	<25	<25	<25	<25	<25	<25	<50	<75	<25
	DP3	6-8	<4.6	na	<25	<25	<25	<25	<25	<25	<50	<75	<25
	DP4	6-8	600	na	1300	1500	<100	<100	3500	11000	14500	6000	5400
	DP5	2-4	2100	na	1100	2200	<25	96	1400	4600	6000	7100	790
	DP6	2-4	<4.8	na	<25	<25	<25	<25	<25	<25	<50	<75	<25
	DP7	4-6	<4.7	na	<25	<25	<25	<25	<25	<25	<50	<75	<25
	DP9	2-4	160	na	<25	<25	<25	94	<25	51	51	186	80
	DP10	2-4	2600	na	<120	5400	<120	<120	4600	31000	35600	21190	8000
	DP11	2-4	<4.8	na	<25	<25	<25	<25	<25	<25	<50	<75	<25
	DP12	0-2	62	na	<26	<26	<26	<26	<26	<26	<52	<78	<26
	DP13	2-4	2100	na	<25	310	<25	<25	510	5900	6410	1000	1900
	DP14	0-2	20	na	<25	<25	<25	<25	<25	<25	<50	<75	<25
	DP15	2-4	400	na	<25	91	<25	<25	430	1300	1730	180	900
	DP16	2-4	14	na	<25	56	<25	<25	94	260	354	110	92
	11/07/14	B-1	7	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0
B-3		7	na	na	<25.0	38.8	<25.0	<25.0	99.5	242	341.5	<75.0	679
B-5		3.5	na	na	227	<25.0	<25.0	110	<25.0	56.2	56.2	146.4	132
B-6		3	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<25.0
B-7		3.5	na	na	<35.2	44.2	<35.2	105	135	184	319	264	304
B-8		3.5	na	na	<27.5	<27.5	<27.5	<27.5	<27.5	<27.5	<55.0	<81.4	<27.5
B-9		3.5	na	na	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<50.0	<75.0	<25.0
Groundwater Protection RCL			ns	ns	5.1	1570	27	1107	ns	ns	1379	3940	658.7
Non-Industrial Direct Contact			ns	ns	1490	7470	59400	818000	182000	89800	ns	258000	5150
Industrial Direct Contact			ns	ns	7410	37,000	293,000	818000	182000	219,000	ns	258000	26,000

- DRO / GRO listed in mg/kg; PVOCs are in ug/kg
- na = not analyzed
- ns = no standard established
- Groundwater Protection RCL (exceedances bold)
- Direct Contact Hazard Non-industrial (exceedances underlined)
- Direct Contact Hazard Industrial (exceedances shaded)
- All standards from R&R calculator using Wisconsin defaults

TABLE 8
SUMMARY OF PAH SOIL ANALYTICAL DATA
Frei Oil Company
207 Highway Street - Horicon, WI

Date	01/05/07							11/07/14					Groundwater Pathway	Direct Contact Hazard Level		
SAMPLE	DP1	DP2	DP4	DP6	DP9	DP11	DP15	B-5	B-6	B-7	B-8	B-9		RCL	Non-Industrial	Industrial
Depth (ft)	2-4	0-2	6-8	2-4	2-4	2-4	2-4	3.5	3	3.5	3.5	3.5				
PAHS																
Acenaphthene	7200	<4.0	140	<3.7	<13	<3.7	240	<9.3	<39.3	51.1	<11.1	<10.8	--	3,590,000	45,200,000	
Acenaphthylene	2000	<3.9	45	<3.6	<12	<3.6	85	38.2	194	59.3	33.4	<9.6	--	--	--	
Anthracene	3100	<4.8	82	<4.4	22	<4.4	100	35.8	341	282	35.8	<11.2	196,744	17,900,000	100,000,000	
Benzo(a)anthracene	<740	7.6	<55	9.3	<u>1300</u>	<6.6	<45	146	787	241	368	<7.5	--	1140	20,800	
Benzo(a)pyrene	<u><400</u>	9.5	<30	6.5	940	5.3	<24	<u>178</u>	1090	<u>157</u>	<u>363</u>	<7.7	470	115	2110	
Benzo(b)fluoranthene	<390	10	<29	6.5	2000	8.0	<24	275	755	224	256	<10.8	480	1150	21,100	
Benzo(g,h,i)perylene	<500	5.7	<37	4.6	790	5.8	<30	180	1180	113	167	<8.2	--	--	--	
Benzo(k)fluoranthene	<430	9.0	<32	6.0	1000	5.9	<26	191	585	174	347	<11.9	--	11,500	211,000	
Dibenzo(a,h)anthracene	<u><380</u>	<3.7	<28	<3.4	<u>280</u>	<3.4	<23	62.9	583	42.4	75.5	<7.9	--	115	2110	
Chrysene	<610	10	<45	8.4	1700	<5.4	<37	261	1270	397	349	<9.9	145.1	115,000	2,110,000	
Fluoranthene	<400	14	<30	13	1100	3.9	27	178	768	471	420	<10.8	88,818	2,390,000	30,100,000	
Fluorene	11,000	<4.6	230	<4.2	<15	<4.2	420	17	81.2	58.3	<11.1	<10.8	14,815	2,390,000	30,100,000	
Indeno(1,2,3-cd)pyrene	<350	5.0	<26	3.8	720	4.6	<21	146	654	75.6	181	<8.2	--	1150	21,100	
1-Methylnaphthalene	83,000	4.4	1900	18	15	<3.8	3200	283	703	629	11.9	<10.8	--	17,600	72,700	
2-Methylnaphthalene	130,000	6.7	3200	29	18	<3.9	3900	292	1130	705	21.9	<10.8	--	239,000	3,010,000	
Naphthalene	25,000	<5.4	600	9.2	<17	<5.0	340	236	830	597	45.9	<10.8	658.7	5520	24,100	
Phenanthrene	27,000	8.2	710	11	100	<3.7	770	329	1330	1110	44.8	<10.8	--	--	--	
Pyrene	820	11	<25	10	1200	3.1	22	175	1030	398	422	<10.8	54,772	1,790,000	22,600,000	
Cumulative Direct Contact Hazard Index	0.594	0.00004	0.01366	0.00014	0.00127	0.00002	0.01677	0.00141	0.00569	0.00342	0.00051	0.00006		1.0	1.0	
Cumulative Direct Contact Cancer Risk	1.7 x 10⁻⁵	1.4 x 10 ⁻⁷	8.2 x 10 ⁻⁷	1.1 x 10 ⁻⁷	1.4 x 10⁻⁵	9.4 x 10 ⁻⁸	7.3 x 10 ⁻⁷	2.7 x 10 ⁻⁶	1.7 x 10⁻⁵	2.4 x 10 ⁻⁶	4.6 x 10 ⁻⁶	1.6 x 10 ⁻⁷		5.0 x 10 ⁻⁶	1.0 x 10 ⁻⁵	

- All results are listed in ug/kg
- na = not analyzed
- ns = no standard established

- Groundwater Protection RCL (exceedances bold)
- Direct Contact Hazard Non-industrial (exceedances underlined)
- Direct Contact Hazard Industrial (exceedances outlined)
- All standards from R&R calculator using Wisconsin defaults

APPENDIX A

BORING LOGS AND WELL FORMS

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-1						
Boring Drilled by Badger State Drilling							Date Installed November 11, 2014							
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 2-inch				Water Level Surface Elevation ~5 ft						
SW <u> </u> ¼ of SW <u> </u> ¼ of Section <u> 6 </u> T <u> 11 </u> N R <u> 19 </u> E							Grid Location (if applicable)							
County Dodge			County Code 14			Civil Town Horicon								
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E	Soil Properties					B l o w C o u n t	
								q	W	LL	PL	P200		
1	6"	4	Grass Very little recovery, silty topsoil (installed another boring adjacent to get enough soil)				ML	0						
2	24	8	Hit water around 5 ft. Light brown fine sand, saturated				SW	0						
3	32	12	Same as above, light brown fine sand End of Boring				SW	0						
4		16												
5		20												
Signature			<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.								

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-2					
Boring Drilled by Badger State Drilling							Date Installed November 11, 2014						
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 2-inch				Water Level Surface Elevation ~7					
SW <u>1/4</u> of SW <u>1/4</u> of Section <u>6</u> T <u>11</u> N R <u>19</u> E				Grid Location (if applicable)									
County Dodge			County Code 14			Civil Town Horicon							
S A M P L E	R E C O R D E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U N D E R S I D E	R O T A T I O N	S T A B L E	Soil Properties					B l o w C o u n t
								q	W	LL	PL	P200	
1			Gravel Blind drilled to groundwater										
2													
3		12	End of Boring										
4		16											
5		20											
Signature			<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Frei Oil			Seymour Project Number			License/Permit/Monitoring Number B-3						
Boring Drilled by Badger State Drilling						Date Installed November 11, 2014						
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 2-inch		Water Level Surface Elevation ~6 ft						
SW <u> </u> ¼ of SW <u> </u> ¼ of Section <u> </u> <u> </u> T <u> </u> <u> </u> N R <u> </u> <u> </u> E				Grid Location (if applicable)								
County Dodge		County Code 14			Civil Town Horicon							
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I S C R I M I N A T I O N	U R D	Stable O V M (vppm)	Soil Properties					Blow Count
							q	W	LL	PL	P200	
1	32"	4	Gravel Dark brown well graded sand			0						
2	24"	8	Hit water around 6 ft. Light brown fine sand, saturated			1.2						
3	32"	12	Same as above, light brown fine sand End of Boring			0						
4		16										
5		20										
Signature		<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-4						
Boring Drilled by Badger State Drilling							Date Installed November 11, 2014							
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 2-inch				Water Level Surface Elevation ~7						
SW <u> </u> ¼ of SW <u> </u> ¼ of Section <u> </u> 6 T <u> </u> 11 N R <u> </u> 19 E							Grid Location (if applicable)							
County Dodge			County Code 14			Civil Town Horicon								
S A M P L E	R E C O R D E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION				D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V E R L A Y S (vppm)	Soil Properties q W LL PL P200			B l o w C o u n t
1			Gravel Blind drilled to groundwater											
2														
3		12	End of Boring											
4		16												
5		20												
Signature			<i>Rokyn Seymour</i>				Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Frei Oil			Seymour Project Number			License/Permit/Monitoring Number B-5							
Boring Drilled by Badger State Drilling						Date Installed November 11, 2014							
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 2-inch		Water Level		Surface Elevation					
na				na		na		na					
SW ¼ of SW ¼ of Section <u> 6 </u> T <u> 11 </u> N R <u> 19 </u> E				Grid Location (if applicable)									
County Dodge		County Code 14			Civil Town Horicon								
S A M P L E	R E C O V E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U N D E R S I D E	R E C O R D	S T A B L E O V E R L A Y S (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	30"	4	Grass Black and brown sand, ash (fill) Peaty clay End of Boring				1.5						
2		8											
3		12											
4		16											
5		20											
Signature		<i>Rokyn Seymour</i>			Firm: Seymour Environmental Services, Inc.								

Facility/Project Name Frei Oil				Seymour Project Number			License/Permit/Monitoring Number B-6							
Boring Drilled by Badger State Drilling							Date Installed November 11, 2014							
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 2-inch			Water Level Surface Elevation na							
SW <u> </u> ¼ of SW <u> </u> ¼ of Section <u> 6 </u> T <u> 11 </u> N R <u> 19 </u> E				Grid Location (if applicable)										
County Dodge		County Code 14			Civil Town Horicon									
S A M P L E	R E C O R D E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U N D E R S O I L	R E C O R D	S T A B L E O V L U M E (vppm)	Soil Properties					B l o w C o u n t	
1	36"	4	Grass Black and brown sand, ash (fill) Peaty clay End of Boring				2.3							
2		8												
3		12												
4		16												
5		20												
Signature			<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.								

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-7					
Boring Drilled by Badger State Drilling								Date Installed November 11, 2014					
Boring or Well Number WI Unique Well Number (assigned by DNR)						Borehole Diameter 2-inch		Water Level Surface Elevation ~7					
SW <u>¼</u> of SW <u>¼</u> of Section <u>6</u> T <u>11</u> N R <u>19</u> E						Grid Location (if applicable)							
County Dodge				County Code 14				Civil Town Horicon					
S A M P L E	R E C O R D	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U S E S	R Q D	Stable O V M (vppm)	Soil Properties					Blow Count
								q	W	LL	PL	P200	
1	22"	4	Gravel Gravely sand Change to clayey silt				2.1						
2		8	Medium brown clayey silt Hit water Change to fine grained light brown sand				0.1						
3		12	End of Boring				0						
4		16											
5		20											
Signature				<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.					

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-8							
Boring Drilled by Badger State Drilling								Date Installed November 11, 2014							
Boring or Well Number WI Unique Well Number (assigned by DNR)						Borehole Diameter 2-inch		Water Level Surface Elevation ~8							
SW <u>1/4</u> of SW <u>1/4</u> of Section <u>6</u> T <u>11</u> N R <u>19</u> E						Grid Location (if applicable)									
County Dodge			County Code 14			Civil Town Horicon									
S A M P L E	R E C O R D E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION			D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V E R L A Y T H I C K N E S S E S S	Soil Properties q W LL PL P200				B L O W C O U N T	
1	30"	4	Gravel Peaty clay, black with gray mottling Peat, glass, clay tile and porcelain					GP OL	1.8						
2	24"	8	Change to clayey silt Hit water					ML	0						
3	30"	12	End of Boring						0						
4		16													
5		20													
Signature			<i>Robyn Seymour</i>			Firm: Seymour Environmental Services, Inc.									

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-9							
Boring Drilled by Badger State Drilling								Date Installed November 11, 2014							
Boring or Well Number WI Unique Well Number (assigned by DNR)						Borehole Diameter 2-inch		Water Level		Surface Elevation ~8					
SW ¼ of SW ¼ of Section <u>6</u> T <u>11</u> N R <u>19</u> E						Grid Location (if applicable)									
County Dodge		County Code 14				Civil Town Horicon									
S A M P L E	R E C O R D E R Y	D E P T H (ft)	SOIL/ROCK DESCRIPTION			D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V O L U M E (vppm)	Soil Properties q W LL PL P200				B l o w C o u n t	
1	30"	4	Gravel Peaty clay, black with gray mottling					GP OL	0.1						
2		8	Blind drilled to 16 ft												
3		12													
4		16	End of Boring												
5		20													
Signature		<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.									

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number B-10					
Boring Drilled by Badger State Drilling								Date Installed November 11, 2014					
Boring or Well Number WI Unique Well Number (assigned by DNR)						Borehole Diameter 2-inch		Water Level		Surface Elevation			
SW ¼ of SW ¼ of Section <u>6</u> T <u>11</u> N R <u>19</u> E						Grid Location (if applicable)							
County Dodge				County Code 14				Civil Town Horicon					
S A M P L E	R E C O R D	D E P T H (ft)	SOIL/ROCK DESCRIPTION	D I A M E T E R	U N D E R S O I L	R E C O R D	S T A B L E	Soil Properties					B l o w C o u n t
								q	w	LL	PL	P200	
1			Gravel Blind drilled to 16 ft										
2													
3													
4													
5													
		16	End of Boring										
		20											
Signature			<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.						

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number MW-1						
Boring Drilled by Badger State Drilling							Date Installed September 3, 2015							
Boring or Well Number WI Unique Well Number (assigned by DNR)				Borehole Diameter 8-inch				Water Level Surface Elevation ~7						
SW <u> </u> ¼ of SW <u> </u> ¼ of Section <u> 6 </u> T <u> 11 </u> N R <u> 19 </u> E				Grid Location (if applicable)										
County Dodge			County Code 14			Civil Town Horicon								
S A M P L E	R E C O R D S	D E P T H (ft)	SOIL/ROCK DESCRIPTION				D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V E R L A Y S (vppm)	Soil Properties q W LL PL P200			B l o w C o u n t
		5	Gravel Blind drilled to 15 ft				GP							
		10												
		15	End of Boring											
Signature			<i>Rokyn Seymour</i>				Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number MW-2						
Boring Drilled by Badger State Drilling							Date Installed September 3, 2015							
Boring or Well Number				WI Unique Well Number (assigned by DNR)				Borehole Diameter 8-inch		Water Level		Surface Elevation		
SW <u>1/4</u> of SW <u>1/4</u> of Section <u>6</u> T <u>11</u> N R <u>19</u> E				Grid Location (if applicable)										
County Dodge			County Code 14			Civil Town Horicon								
S A M P L E	R E C O R D S	D E P T H (ft)	SOIL/ROCK DESCRIPTION				D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V E R L A Y S (vppm)	Soil Properties q W LL PL P200			B l o w C o u n t
		5	Gravel Blind drilled to 15 ft				GP							
		10												
		15	End of Boring											
Signature			<i>Rokyn Seymour</i>				Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number MW-3						
Boring Drilled by Badger State Drilling							Date Installed September 3, 2015							
Boring or Well Number				WI Unique Well Number (assigned by DNR)				Borehole Diameter 8-inch		Water Level		Surface Elevation		
SW <u>1/4</u> of SW <u>1/4</u> of Section <u>6</u> T <u>11</u> N R <u>19</u> E				Grid Location (if applicable)										
County Dodge			County Code 14			Civil Town Horicon								
S A M P L E	R E C O R D S	D E P T H (ft)	SOIL/ROCK DESCRIPTION				D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V E R L A Y S (vppm)	Soil Properties q W LL PL P200			B l o w C o u n t
		5	Gravel Blind drilled to 15 ft				GP							
		10												
		15	End of Boring											
Signature			<i>Robyn Seymour</i>				Firm: Seymour Environmental Services, Inc.							

Facility/Project Name Frei Oil				Seymour Project Number				License/Permit/Monitoring Number MW-4						
Boring Drilled by Badger State Drilling							Date Installed September 3, 2015							
Boring or Well Number				WI Unique Well Number (assigned by DNR)				Borehole Diameter 8-inch		Water Level		Surface Elevation		
SW <u>1/4</u> of SW <u>1/4</u> of Section <u>6</u> T <u>11</u> N R <u>19</u> E				Grid Location (if applicable)										
County Dodge			County Code 14			Civil Town Horicon								
S A M P L E	R E C O R D	D E P T H (ft)	SOIL/ROCK DESCRIPTION				D I A M E T E R	U N D E R S O I L	R E Q U I R E D	S T A B L E O V E R L A Y S (vppm)	Soil Properties q W LL PL P200			B l o w C o u n t
		5	Gravel Blind drilled to 15 ft				GP							
		10												
		15	End of Boring											
Signature			<i>Rokyn Seymour</i>				Firm: Seymour Environmental Services, Inc.							

APPENDIX B

LABORATORY REPORTS

November 21, 2014

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: FREI OIL
Pace Project No.: 40106936

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on November 12, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: FREI OIL

Pace Project No.: 40106936

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: FREI OIL
Pace Project No.: 40106936

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40106936001	B-1, 7'	Solid	11/07/14 10:15	11/12/14 10:20
40106936002	B-1	Water	11/07/14 10:20	11/12/14 10:20
40106936003	B-2	Water	11/07/14 11:15	11/12/14 10:20
40106936004	B-3, 7'	Solid	11/07/14 11:25	11/12/14 10:20
40106936005	B-3	Water	11/07/14 11:40	11/12/14 10:20
40106936006	B-4	Water	11/07/14 12:15	11/12/14 10:20
40106936007	B-5, 3.5'	Solid	11/07/14 12:20	11/12/14 10:20
40106936008	B-6, 3'	Solid	11/07/14 12:30	11/12/14 10:20
40106936009	B-7, 3.5'	Solid	11/07/14 12:40	11/12/14 10:20
40106936010	B-7	Water	11/07/14 13:00	11/12/14 10:20
40106936011	B-8, 3.5'	Solid	11/07/14 13:30	11/12/14 10:20
40106936012	B-8	Water	11/07/14 14:00	11/12/14 10:20
40106936013	B-9, 3.5	Solid	11/07/14 14:10	11/12/14 10:20
40106936014	B-9	Water	11/07/14 14:20	11/12/14 10:20
40106936015	B-10	Water	11/07/14 14:30	11/12/14 10:20

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SAMPLE ANALYTE COUNT

Project: FREI OIL
Pace Project No.: 40106936

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40106936001	B-1, 7'	WI MOD GRO	LCF	10
		ASTM D2974-87	SKW	1
40106936002	B-1	WI MOD GRO	MRS	10
40106936003	B-2	WI MOD GRO	MRS	10
40106936004	B-3, 7'	WI MOD GRO	LCF	10
		ASTM D2974-87	SKW	1
40106936005	B-3	WI MOD GRO	MRS	10
40106936006	B-4	WI MOD GRO	MRS	10
40106936007	B-5, 3.5'	WI MOD GRO	LCF	10
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	SKW	1
40106936008	B-6, 3'	WI MOD GRO	LCF	10
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	SKW	1
40106936009	B-7, 3.5'	WI MOD GRO	LCF	10
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	SKW	1
40106936010	B-7	WI MOD GRO	MRS	10
40106936011	B-8, 3.5'	WI MOD GRO	LCF	10
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	SKW	1
40106936012	B-8	WI MOD GRO	MRS	10
40106936013	B-9, 3.5	WI MOD GRO	LCF	10
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	SKW	1
40106936014	B-9	WI MOD GRO	MRS	10
40106936015	B-10	WI MOD GRO	MRS	10

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-1, 7' **Lab ID: 40106936001** Collected: 11/07/14 10:15 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/13/14 08:25	11/13/14 12:27	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:27	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-120		1	11/13/14 08:25	11/13/14 12:27	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	16.5 %		0.10	0.10	1		11/14/14 14:45		

Sample: B-1 **Lab ID: 40106936002** Collected: 11/07/14 10:20 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	0.46J	ug/L	1.0	0.40	1		11/13/14 19:53	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		11/13/14 19:53	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		11/13/14 19:53	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		11/13/14 19:53	91-20-3	
Toluene	0.61J	ug/L	1.0	0.39	1		11/13/14 19:53	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 19:53	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 19:53	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		11/13/14 19:53	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		11/13/14 19:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105 %		80-120		1		11/13/14 19:53	98-08-8	HS,pH

Sample: B-2 **Lab ID: 40106936003** Collected: 11/07/14 11:15 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		11/13/14 18:36	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		11/13/14 18:36	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		11/13/14 18:36	1634-04-4	
Naphthalene	0.49J	ug/L	1.0	0.42	1		11/13/14 18:36	91-20-3	
Toluene	0.77J	ug/L	1.0	0.39	1		11/13/14 18:36	108-88-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-2									
Lab ID: 40106936003 Collected: 11/07/14 11:15 Received: 11/12/14 10:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 18:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 18:36	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		11/13/14 18:36	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		11/13/14 18:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105	%	80-120		1		11/13/14 18:36	98-08-8	HS,pH

Sample: B-3, 7'									
Lab ID: 40106936004 Collected: 11/07/14 11:25 Received: 11/12/14 10:20 Matrix: Solid									
Results reported on a "dry-weight" basis									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 16:18	71-43-2	W
Ethylbenzene	38.8J	ug/kg	63.9	31.9	1	11/13/14 08:25	11/13/14 16:18	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 16:18	1634-04-4	W
Naphthalene	679	ug/kg	63.9	31.9	1	11/13/14 08:25	11/13/14 16:18	91-20-3	
Toluene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 16:18	108-88-3	W
1,2,4-Trimethylbenzene	242	ug/kg	63.9	31.9	1	11/13/14 08:25	11/13/14 16:18	95-63-6	
1,3,5-Trimethylbenzene	99.5	ug/kg	63.9	31.9	1	11/13/14 08:25	11/13/14 16:18	108-67-8	
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/13/14 08:25	11/13/14 16:18	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 16:18	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	11/13/14 08:25	11/13/14 16:18	98-08-8	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.7	%	0.10	0.10	1		11/14/14 14:45		

Sample: B-3									
Lab ID: 40106936005 Collected: 11/07/14 11:40 Received: 11/12/14 10:20 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	1.5	ug/L	1.0	0.40	1		11/14/14 09:13	71-43-2	
Ethylbenzene	5.3	ug/L	1.0	0.39	1		11/14/14 09:13	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		11/14/14 09:13	1634-04-4	
Naphthalene	8.0	ug/L	1.0	0.42	1		11/14/14 09:13	91-20-3	
Toluene	0.66J	ug/L	1.0	0.39	1		11/14/14 09:13	108-88-3	
1,2,4-Trimethylbenzene	11.5	ug/L	1.0	0.42	1		11/14/14 09:13	95-63-6	
1,3,5-Trimethylbenzene	2.9	ug/L	1.0	0.42	1		11/14/14 09:13	108-67-8	
m&p-Xylene	6.6	ug/L	2.0	0.80	1		11/14/14 09:13	179601-23-1	
o-Xylene	0.52J	ug/L	1.0	0.45	1		11/14/14 09:13	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-3									
Lab ID: 40106936005									
Collected: 11/07/14 11:40									
Received: 11/12/14 10:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	106 %		80-120		1		11/14/14 09:13	98-08-8	pH

Sample: B-4									
Lab ID: 40106936006									
Collected: 11/07/14 12:15									
Received: 11/12/14 10:20									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	60.7	ug/L	5.0	2.0	5		11/14/14 09:40	71-43-2	
Ethylbenzene	112	ug/L	5.0	2.0	5		11/14/14 09:40	100-41-4	
Methyl-tert-butyl ether	<2.4	ug/L	5.0	2.4	5		11/14/14 09:40	1634-04-4	
Naphthalene	181	ug/L	5.0	2.1	5		11/14/14 09:40	91-20-3	
Toluene	3.8J	ug/L	5.0	1.9	5		11/14/14 09:40	108-88-3	
1,2,4-Trimethylbenzene	384	ug/L	5.0	2.1	5		11/14/14 09:40	95-63-6	
1,3,5-Trimethylbenzene	107	ug/L	5.0	2.1	5		11/14/14 09:40	108-67-8	
m&p-Xylene	336	ug/L	10.0	4.0	5		11/14/14 09:40	179601-23-1	
o-Xylene	7.3	ug/L	5.0	2.2	5		11/14/14 09:40	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-120		5		11/14/14 09:40	98-08-8	pH

Sample: B-5, 3.5'									
Lab ID: 40106936007									
Collected: 11/07/14 12:20									
Received: 11/12/14 10:20									
Matrix: Solid									
Results reported on a "dry-weight" basis									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	227	ug/kg	55.5	27.8	1	11/13/14 08:25	11/13/14 12:53	71-43-2	
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:53	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:53	1634-04-4	W
Naphthalene	132	ug/kg	55.5	27.8	1	11/13/14 08:25	11/13/14 12:53	91-20-3	
Toluene	110	ug/kg	55.5	27.8	1	11/13/14 08:25	11/13/14 12:53	108-88-3	
1,2,4-Trimethylbenzene	56.2	ug/kg	55.5	27.8	1	11/13/14 08:25	11/13/14 12:53	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 12:53	108-67-8	W
m&p-Xylene	93.4J	ug/kg	111	55.5	1	11/13/14 08:25	11/13/14 12:53	179601-23-1	
o-Xylene	53.0J	ug/kg	55.5	27.8	1	11/13/14 08:25	11/13/14 12:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1	11/13/14 08:25	11/13/14 12:53	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<9.3	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	83-32-9	
Acenaphthylene	38.2	ug/kg	18.5	8.3	1	11/18/14 09:49	11/18/14 19:28	208-96-8	
Anthracene	35.8	ug/kg	18.5	9.6	1	11/18/14 09:49	11/18/14 19:28	120-12-7	
Benzo(a)anthracene	146	ug/kg	18.5	6.4	1	11/18/14 09:49	11/18/14 19:28	56-55-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-5, 3.5' **Lab ID: 40106936007** Collected: 11/07/14 12:20 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Benzo(a)pyrene	178	ug/kg	18.5	6.6	1	11/18/14 09:49	11/18/14 19:28	50-32-8	
Benzo(b)fluoranthene	275	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	205-99-2	
Benzo(g,h,i)perylene	180	ug/kg	18.5	7.0	1	11/18/14 09:49	11/18/14 19:28	191-24-2	
Benzo(k)fluoranthene	191	ug/kg	18.5	10.2	1	11/18/14 09:49	11/18/14 19:28	207-08-9	
Chrysene	261	ug/kg	18.5	8.6	1	11/18/14 09:49	11/18/14 19:28	218-01-9	
Dibenz(a,h)anthracene	62.9	ug/kg	18.5	6.8	1	11/18/14 09:49	11/18/14 19:28	53-70-3	
Fluoranthene	178	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	206-44-0	
Fluorene	17.0J	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	86-73-7	
Indeno(1,2,3-cd)pyrene	146	ug/kg	18.5	7.0	1	11/18/14 09:49	11/18/14 19:28	193-39-5	
1-Methylnaphthalene	283	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	90-12-0	
2-Methylnaphthalene	292	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	91-57-6	
Naphthalene	236	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	91-20-3	
Phenanthrene	329	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	85-01-8	
Pyrene	175	ug/kg	18.5	9.3	1	11/18/14 09:49	11/18/14 19:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50 %		40-130		1	11/18/14 09:49	11/18/14 19:28	321-60-8	
Terphenyl-d14 (S)	48 %		40-130		1	11/18/14 09:49	11/18/14 19:28	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	9.9 %		0.10	0.10	1		11/14/14 14:46		

Sample: B-6, 3' **Lab ID: 40106936008** Collected: 11/07/14 12:30 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/13/14 08:25	11/13/14 13:19	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 13:19	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-120		1	11/13/14 08:25	11/13/14 13:19	98-08-8	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	<39.3	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	83-32-9	
Acenaphthylene	194	ug/kg	78.7	35.2	4	11/18/14 09:49	11/20/14 21:42	208-96-8	
Anthracene	341	ug/kg	78.7	40.8	4	11/18/14 09:49	11/20/14 21:42	120-12-7	

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-6, 3' **Lab ID: 40106936008** Collected: 11/07/14 12:30 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Benzo(a)anthracene	787	ug/kg	78.7	27.3	4	11/18/14 09:49	11/20/14 21:42	56-55-3	
Benzo(a)pyrene	1090	ug/kg	78.7	28.1	4	11/18/14 09:49	11/20/14 21:42	50-32-8	
Benzo(b)fluoranthene	755	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	205-99-2	
Benzo(g,h,i)perylene	1180	ug/kg	78.7	30.0	4	11/18/14 09:49	11/20/14 21:42	191-24-2	
Benzo(k)fluoranthene	585	ug/kg	78.7	43.5	4	11/18/14 09:49	11/20/14 21:42	207-08-9	
Chrysene	1270	ug/kg	78.7	36.4	4	11/18/14 09:49	11/20/14 21:42	218-01-9	
Dibenz(a,h)anthracene	583	ug/kg	78.7	28.9	4	11/18/14 09:49	11/20/14 21:42	53-70-3	
Fluoranthene	768	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	206-44-0	
Fluorene	81.2	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	86-73-7	
Indeno(1,2,3-cd)pyrene	654	ug/kg	78.7	29.9	4	11/18/14 09:49	11/20/14 21:42	193-39-5	
1-Methylnaphthalene	703	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	90-12-0	
2-Methylnaphthalene	1130	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	91-57-6	
Naphthalene	830	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	91-20-3	
Phenanthrene	1330	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	85-01-8	
Pyrene	1030	ug/kg	78.7	39.3	4	11/18/14 09:49	11/20/14 21:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	59 %		40-130		4	11/18/14 09:49	11/20/14 21:42	321-60-8	
Terphenyl-d14 (S)	58 %		40-130		4	11/18/14 09:49	11/20/14 21:42	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.3	%	0.10	0.10	1		11/14/14 14:46		

Sample: B-7, 3.5' **Lab ID: 40106936009** Collected: 11/07/14 12:40 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<35.2	ug/kg	70.4	35.2	1	11/13/14 08:25	11/13/14 15:53	71-43-2	W
Ethylbenzene	44.2J	ug/kg	85.8	42.9	1	11/13/14 08:25	11/13/14 15:53	100-41-4	
Methyl-tert-butyl ether	<35.2	ug/kg	70.4	35.2	1	11/13/14 08:25	11/13/14 15:53	1634-04-4	W
Naphthalene	304	ug/kg	85.8	42.9	1	11/13/14 08:25	11/13/14 15:53	91-20-3	
Toluene	105	ug/kg	85.8	42.9	1	11/13/14 08:25	11/13/14 15:53	108-88-3	
1,2,4-Trimethylbenzene	184	ug/kg	85.8	42.9	1	11/13/14 08:25	11/13/14 15:53	95-63-6	
1,3,5-Trimethylbenzene	135	ug/kg	85.8	42.9	1	11/13/14 08:25	11/13/14 15:53	108-67-8	
m&p-Xylene	182	ug/kg	172	85.8	1	11/13/14 08:25	11/13/14 15:53	179601-23-1	
o-Xylene	82.0J	ug/kg	85.8	42.9	1	11/13/14 08:25	11/13/14 15:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1	11/13/14 08:25	11/13/14 15:53	98-08-8	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Acenaphthene	51.1J	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	83-32-9	
Acenaphthylene	59.3J	ug/kg	67.6	30.3	3.33	11/18/14 09:49	11/20/14 21:59	208-96-8	

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-7, 3.5' **Lab ID: 40106936009** Collected: 11/07/14 12:40 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Anthracene	282	ug/kg	67.6	35.1	3.33	11/18/14 09:49	11/20/14 21:59	120-12-7	
Benzo(a)anthracene	241	ug/kg	67.6	23.4	3.33	11/18/14 09:49	11/20/14 21:59	56-55-3	
Benzo(a)pyrene	157	ug/kg	67.6	24.2	3.33	11/18/14 09:49	11/20/14 21:59	50-32-8	
Benzo(b)fluoranthene	224	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	205-99-2	
Benzo(g,h,i)perylene	113	ug/kg	67.6	25.8	3.33	11/18/14 09:49	11/20/14 21:59	191-24-2	
Benzo(k)fluoranthene	174	ug/kg	67.6	37.4	3.33	11/18/14 09:49	11/20/14 21:59	207-08-9	
Chrysene	397	ug/kg	67.6	31.3	3.33	11/18/14 09:49	11/20/14 21:59	218-01-9	
Dibenz(a,h)anthracene	42.4J	ug/kg	67.6	24.8	3.33	11/18/14 09:49	11/20/14 21:59	53-70-3	
Fluoranthene	471	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	206-44-0	
Fluorene	58.3J	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	86-73-7	
Indeno(1,2,3-cd)pyrene	75.6	ug/kg	67.6	25.7	3.33	11/18/14 09:49	11/20/14 21:59	193-39-5	
1-Methylnaphthalene	629	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	90-12-0	
2-Methylnaphthalene	705	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	91-57-6	
Naphthalene	597	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	91-20-3	
Phenanthrene	1110	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	85-01-8	
Pyrene	398	ug/kg	67.6	33.8	3.33	11/18/14 09:49	11/20/14 21:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	40-130		3.33	11/18/14 09:49	11/20/14 21:59	321-60-8	
Terphenyl-d14 (S)	63	%	40-130		3.33	11/18/14 09:49	11/20/14 21:59	1718-51-0	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **17.9** % 0.10 0.10 1 11/14/14 14:46

Sample: B-7 **Lab ID: 40106936010** Collected: 11/07/14 13:00 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	0.42J	ug/L	1.0	0.40	1		11/13/14 19:02	71-43-2	
Ethylbenzene	0.52J	ug/L	1.0	0.39	1		11/13/14 19:02	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		11/13/14 19:02	1634-04-4	
Naphthalene	3.9	ug/L	1.0	0.42	1		11/13/14 19:02	91-20-3	
Toluene	0.50J	ug/L	1.0	0.39	1		11/13/14 19:02	108-88-3	
1,2,4-Trimethylbenzene	5.9	ug/L	1.0	0.42	1		11/13/14 19:02	95-63-6	
1,3,5-Trimethylbenzene	2.2	ug/L	1.0	0.42	1		11/13/14 19:02	108-67-8	
m&p-Xylene	2.6	ug/L	2.0	0.80	1		11/13/14 19:02	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		11/13/14 19:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		11/13/14 19:02	98-08-8	HS,pH

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-8, 3.5' **Lab ID: 40106936011** Collected: 11/07/14 13:30 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	71-43-2	W
Ethylbenzene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	100-41-4	W
Methyl-tert-butyl ether	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	1634-04-4	W
Naphthalene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	91-20-3	W
Toluene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	108-88-3	W
1,2,4-Trimethylbenzene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	95-63-6	W
1,3,5-Trimethylbenzene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	108-67-8	W
m&p-Xylene	<54.9	ug/kg	110	54.9	1	11/13/14 08:25	11/13/14 13:44	179601-23-1	W
o-Xylene	<27.5	ug/kg	54.9	27.5	1	11/13/14 08:25	11/13/14 13:44	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-120		1	11/13/14 08:25	11/13/14 13:44	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<11.1	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	83-32-9	
Acenaphthylene	33.4	ug/kg	22.2	9.9	1	11/19/14 08:37	11/19/14 18:06	208-96-8	
Anthracene	35.8	ug/kg	22.2	11.5	1	11/19/14 08:37	11/19/14 18:06	120-12-7	
Benzo(a)anthracene	368	ug/kg	22.2	7.7	1	11/19/14 08:37	11/19/14 18:06	56-55-3	
Benzo(a)pyrene	363	ug/kg	22.2	7.9	1	11/19/14 08:37	11/19/14 18:06	50-32-8	
Benzo(b)fluoranthene	256	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	205-99-2	
Benzo(g,h,i)perylene	167	ug/kg	22.2	8.4	1	11/19/14 08:37	11/19/14 18:06	191-24-2	
Benzo(k)fluoranthene	347	ug/kg	22.2	12.3	1	11/19/14 08:37	11/19/14 18:06	207-08-9	
Chrysene	349	ug/kg	22.2	10.3	1	11/19/14 08:37	11/19/14 18:06	218-01-9	
Dibenz(a,h)anthracene	75.5	ug/kg	22.2	8.1	1	11/19/14 08:37	11/19/14 18:06	53-70-3	
Fluoranthene	420	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	206-44-0	
Fluorene	<11.1	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	86-73-7	
Indeno(1,2,3-cd)pyrene	181	ug/kg	22.2	8.4	1	11/19/14 08:37	11/19/14 18:06	193-39-5	
1-Methylnaphthalene	11.9J	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	90-12-0	
2-Methylnaphthalene	21.9J	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	91-57-6	
Naphthalene	45.9	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	91-20-3	
Phenanthrene	44.8	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	85-01-8	
Pyrene	422	ug/kg	22.2	11.1	1	11/19/14 08:37	11/19/14 18:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	65 %		40-130		1	11/19/14 08:37	11/19/14 18:06	321-60-8	
Terphenyl-d14 (S)	65 %		40-130		1	11/19/14 08:37	11/19/14 18:06	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	24.9 %		0.10	0.10	1		11/14/14 14:46		

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-8 **Lab ID: 40106936012** Collected: 11/07/14 14:00 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		11/13/14 13:28	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		11/13/14 13:28	100-41-4	
Methyl-tert-butyl ether	0.70J	ug/L	1.0	0.48	1		11/13/14 13:28	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		11/13/14 13:28	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		11/13/14 13:28	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 13:28	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 13:28	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		11/13/14 13:28	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		11/13/14 13:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108 %		80-120		1		11/13/14 13:28	98-08-8	HS,pH

Sample: B-9, 3.5 **Lab ID: 40106936013** Collected: 11/07/14 14:10 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	11/13/14 08:25	11/13/14 21:00	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	11/13/14 08:25	11/13/14 21:00	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99 %		80-120		1	11/13/14 08:25	11/13/14 21:00	98-08-8	

8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	83-32-9	
Acenaphthylene	<9.6	ug/kg	21.5	9.6	1	11/19/14 13:00	11/20/14 10:17	208-96-8	
Anthracene	<11.2	ug/kg	21.5	11.2	1	11/19/14 13:00	11/20/14 10:17	120-12-7	
Benzo(a)anthracene	<7.5	ug/kg	21.5	7.5	1	11/19/14 13:00	11/20/14 10:17	56-55-3	
Benzo(a)pyrene	<7.7	ug/kg	21.5	7.7	1	11/19/14 13:00	11/20/14 10:17	50-32-8	
Benzo(b)fluoranthene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	205-99-2	
Benzo(g,h,i)perylene	<8.2	ug/kg	21.5	8.2	1	11/19/14 13:00	11/20/14 10:17	191-24-2	
Benzo(k)fluoranthene	<11.9	ug/kg	21.5	11.9	1	11/19/14 13:00	11/20/14 10:17	207-08-9	
Chrysene	<9.9	ug/kg	21.5	9.9	1	11/19/14 13:00	11/20/14 10:17	218-01-9	
Dibenz(a,h)anthracene	<7.9	ug/kg	21.5	7.9	1	11/19/14 13:00	11/20/14 10:17	53-70-3	
Fluoranthene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	206-44-0	
Fluorene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<8.2	ug/kg	21.5	8.2	1	11/19/14 13:00	11/20/14 10:17	193-39-5	

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ANALYTICAL RESULTS

Project: FREI OIL
Pace Project No.: 40106936

Sample: B-9, 3.5 **Lab ID: 40106936013** Collected: 11/07/14 14:10 Received: 11/12/14 10:20 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
1-Methylnaphthalene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	90-12-0	
2-Methylnaphthalene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	91-57-6	
Naphthalene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	91-20-3	
Phenanthrene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	85-01-8	
Pyrene	<10.8	ug/kg	21.5	10.8	1	11/19/14 13:00	11/20/14 10:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%	40-130		1	11/19/14 13:00	11/20/14 10:17	321-60-8	
Terphenyl-d14 (S)	64	%	40-130		1	11/19/14 13:00	11/20/14 10:17	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	22.5	%	0.10	0.10	1		11/14/14 14:46		

Sample: B-9 **Lab ID: 40106936014** Collected: 11/07/14 14:20 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		11/13/14 19:28	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		11/13/14 19:28	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		11/13/14 19:28	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		11/13/14 19:28	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		11/13/14 19:28	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 19:28	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 19:28	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		11/13/14 19:28	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		11/13/14 19:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		11/13/14 19:28	98-08-8	HS,pH

Sample: B-10 **Lab ID: 40106936015** Collected: 11/07/14 14:30 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		11/13/14 13:54	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		11/13/14 13:54	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		11/13/14 13:54	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		11/13/14 13:54	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		11/13/14 13:54	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 13:54	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		11/13/14 13:54	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		11/13/14 13:54	179601-23-1	

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ANALYTICAL RESULTS

Project: FREI OIL

Pace Project No.: 40106936

Sample: B-10 **Lab ID: 40106936015** Collected: 11/07/14 14:30 Received: 11/12/14 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
o-Xylene	<0.45	ug/L	1.0	0.45	1		11/13/14 13:54	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		11/13/14 13:54	98-08-8	HS,pH

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

QC Batch: GCV/13544 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40106936001, 40106936004, 40106936007, 40106936008, 40106936009, 40106936011, 40106936013

METHOD BLANK: 1081549 Matrix: Solid
Associated Lab Samples: 40106936001, 40106936004, 40106936007, 40106936008, 40106936009, 40106936011, 40106936013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	11/13/14 09:14	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	11/13/14 09:14	
Benzene	ug/kg	<25.0	50.0	11/13/14 09:14	
Ethylbenzene	ug/kg	<25.0	50.0	11/13/14 09:14	
m&p-Xylene	ug/kg	<50.0	100	11/13/14 09:14	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	11/13/14 09:14	
Naphthalene	ug/kg	<25.0	50.0	11/13/14 09:14	
o-Xylene	ug/kg	<25.0	50.0	11/13/14 09:14	
Toluene	ug/kg	<25.0	50.0	11/13/14 09:14	
a,a,a-Trifluorotoluene (S)	%	99	80-120	11/13/14 09:14	

LABORATORY CONTROL SAMPLE & LCSD: 1081550

1081551

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1030	998	103	100	80-120	3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1030	991	103	99	80-120	3	20	
Benzene	ug/kg	1000	1030	995	103	100	80-120	4	20	
Ethylbenzene	ug/kg	1000	1030	997	103	100	80-120	4	20	
m&p-Xylene	ug/kg	2000	2040	1960	102	98	80-120	4	20	
Methyl-tert-butyl ether	ug/kg	1000	1030	1020	103	102	80-120	1	20	
Naphthalene	ug/kg	1000	996	1000	100	100	80-120	1	20	
o-Xylene	ug/kg	1000	1020	982	102	98	80-120	3	20	
Toluene	ug/kg	1000	1020	983	102	98	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

QC Batch: GCV/13542 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40106936002, 40106936003, 40106936005, 40106936006, 40106936010, 40106936012, 40106936014, 40106936015

METHOD BLANK: 1081543 Matrix: Water
Associated Lab Samples: 40106936002, 40106936003, 40106936005, 40106936006, 40106936010, 40106936012, 40106936014, 40106936015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	11/13/14 09:11	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	11/13/14 09:11	
Benzene	ug/L	<0.40	1.0	11/13/14 09:11	
Ethylbenzene	ug/L	<0.39	1.0	11/13/14 09:11	
m&p-Xylene	ug/L	<0.80	2.0	11/13/14 09:11	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	11/13/14 09:11	
Naphthalene	ug/L	<0.42	1.0	11/13/14 09:11	
o-Xylene	ug/L	<0.45	1.0	11/13/14 09:11	
Toluene	ug/L	<0.39	1.0	11/13/14 09:11	
a,a,a-Trifluorotoluene (S)	%	102	80-120	11/13/14 09:11	

LABORATORY CONTROL SAMPLE & LCSD: 1081544 1081545

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.0	20.4	100	102	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	19.9	20.2	99	101	80-120	1	20	
Benzene	ug/L	20	19.9	19.9	99	99	80-120	0	20	
Ethylbenzene	ug/L	20	20.0	20.1	100	101	80-120	1	20	
m&p-Xylene	ug/L	40	39.5	39.8	99	100	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	18.8	19.0	94	95	80-120	1	20	
Naphthalene	ug/L	20	18.3	19.1	91	95	80-120	4	20	
o-Xylene	ug/L	20	19.3	19.6	97	98	80-120	1	20	
Toluene	ug/L	20	19.6	19.6	98	98	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				100	101	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1081835 1081836

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40106936006 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	384	100	100	523	538	138	154	26-200	3	20
1,3,5-Trimethylbenzene	ug/L	107	100	100	221	237	113	130	70-160	7	20
Benzene	ug/L	60.7	100	100	162	173	101	112	49-165	7	20
Ethylbenzene	ug/L	112	100	100	224	236	112	124	59-156	5	20
m&p-Xylene	ug/L	336	200	200	564	582	114	123	49-164	3	20
Methyl-tert-butyl ether	ug/L	<2.4	100	100	92.7	106	93	106	80-127	13	20
Naphthalene	ug/L	181	100	100	284	300	103	119	71-130	6	20
o-Xylene	ug/L	7.3	100	100	108	122	101	114	70-137	12	20

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QUALITY CONTROL DATA

Project: FREI OIL

Pace Project No.: 40106936

Parameter	Units	40106936006		1081835		1081836		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Toluene	ug/L	3.8J	100	100	106	120	102	116	80-135	13	20			
a,a,a-Trifluorotoluene (S)	%						102	101	80-120					pH

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

QC Batch: OEXT/25254 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40106936007, 40106936008, 40106936009

METHOD BLANK: 1084242 Matrix: Solid
Associated Lab Samples: 40106936007, 40106936008, 40106936009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	11/18/14 13:29	
2-Methylnaphthalene	ug/kg	<8.3	16.7	11/18/14 13:29	
Acenaphthene	ug/kg	<8.3	16.7	11/18/14 13:29	
Acenaphthylene	ug/kg	<7.5	16.7	11/18/14 13:29	
Anthracene	ug/kg	<8.6	16.7	11/18/14 13:29	
Benzo(a)anthracene	ug/kg	<5.8	16.7	11/18/14 13:29	
Benzo(a)pyrene	ug/kg	<6.0	16.7	11/18/14 13:29	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	11/18/14 13:29	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	11/18/14 13:29	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	11/18/14 13:29	
Chrysene	ug/kg	<7.7	16.7	11/18/14 13:29	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	11/18/14 13:29	
Fluoranthene	ug/kg	<8.3	16.7	11/18/14 13:29	
Fluorene	ug/kg	<8.3	16.7	11/18/14 13:29	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	11/18/14 13:29	
Naphthalene	ug/kg	<8.3	16.7	11/18/14 13:29	
Phenanthrene	ug/kg	<8.3	16.7	11/18/14 13:29	
Pyrene	ug/kg	<8.3	16.7	11/18/14 13:29	
2-Fluorobiphenyl (S)	%	59	40-130	11/18/14 13:29	
Terphenyl-d14 (S)	%	66	40-130	11/18/14 13:29	

LABORATORY CONTROL SAMPLE: 1084243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	254	76	47-130	
2-Methylnaphthalene	ug/kg	333	225	67	48-130	
Acenaphthene	ug/kg	333	244	73	55-130	
Acenaphthylene	ug/kg	333	249	75	55-130	
Anthracene	ug/kg	333	295	88	66-130	
Benzo(a)anthracene	ug/kg	333	236	71	55-130	
Benzo(a)pyrene	ug/kg	333	238	71	56-130	
Benzo(b)fluoranthene	ug/kg	333	212	64	53-130	
Benzo(g,h,i)perylene	ug/kg	333	243	73	51-130	
Benzo(k)fluoranthene	ug/kg	333	255	77	52-130	
Chrysene	ug/kg	333	281	84	58-130	
Dibenz(a,h)anthracene	ug/kg	333	231	69	55-130	
Fluoranthene	ug/kg	333	245	74	62-130	
Fluorene	ug/kg	333	249	75	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	240	72	54-130	
Naphthalene	ug/kg	333	230	69	41-130	

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

LABORATORY CONTROL SAMPLE: 1084243

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	233	70	60-130	
Pyrene	ug/kg	333	253	76	51-130	
2-Fluorobiphenyl (S)	%			66	40-130	
Terphenyl-d14 (S)	%			67	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1084244 1084245

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40107152006 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
1-Methylnaphthalene	ug/kg	<9.4	375	375	277	275	74	73	42-130	0	32		
2-Methylnaphthalene	ug/kg	<9.4	375	375	244	243	65	65	34-130	0	35		
Acenaphthene	ug/kg	<9.4	375	375	261	258	69	69	31-130	1	35		
Acenaphthylene	ug/kg	<8.4	375	375	271	270	72	72	32-130	0	25		
Anthracene	ug/kg	<9.7	375	375	298	302	79	80	39-131	1	38		
Benzo(a)anthracene	ug/kg	<6.5	375	375	251	254	67	68	29-130	1	30		
Benzo(a)pyrene	ug/kg	<6.7	375	375	236	239	63	64	35-130	2	33		
Benzo(b)fluoranthene	ug/kg	<9.4	375	375	223	208	59	55	21-142	7	44		
Benzo(g,h,i)perylene	ug/kg	<7.2	375	375	260	263	69	70	12-134	1	33		
Benzo(k)fluoranthene	ug/kg	<10.4	375	375	270	294	72	78	35-130	8	37		
Chrysene	ug/kg	<8.7	375	375	290	295	77	78	37-130	2	38		
Dibenz(a,h)anthracene	ug/kg	<6.9	375	375	248	251	66	67	23-130	1	27		
Fluoranthene	ug/kg	<9.4	375	375	259	266	69	71	29-137	3	50		
Fluorene	ug/kg	<9.4	375	375	264	264	70	70	32-130	0	32		
Indeno(1,2,3-cd)pyrene	ug/kg	<7.1	375	375	254	259	68	69	17-134	2	28		
Naphthalene	ug/kg	<9.4	375	375	253	249	67	66	24-130	2	40		
Phenanthrene	ug/kg	<9.4	375	375	255	261	68	69	27-135	2	46		
Pyrene	ug/kg	<9.4	375	375	267	273	71	73	24-130	2	49		
2-Fluorobiphenyl (S)	%							59	58	40-130			
Terphenyl-d14 (S)	%							54	54	40-130			

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

QC Batch: OEXT/25272 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40106936011

METHOD BLANK: 1084802 Matrix: Solid
Associated Lab Samples: 40106936011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	11/19/14 10:54	
2-Methylnaphthalene	ug/kg	<8.3	16.7	11/19/14 10:54	
Acenaphthene	ug/kg	<8.3	16.7	11/19/14 10:54	
Acenaphthylene	ug/kg	<7.5	16.7	11/19/14 10:54	
Anthracene	ug/kg	<8.6	16.7	11/19/14 10:54	
Benzo(a)anthracene	ug/kg	<5.8	16.7	11/19/14 10:54	
Benzo(a)pyrene	ug/kg	<6.0	16.7	11/19/14 10:54	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	11/19/14 10:54	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	11/19/14 10:54	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	11/19/14 10:54	
Chrysene	ug/kg	<7.7	16.7	11/19/14 10:54	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	11/19/14 10:54	
Fluoranthene	ug/kg	<8.3	16.7	11/19/14 10:54	
Fluorene	ug/kg	<8.3	16.7	11/19/14 10:54	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	11/19/14 10:54	
Naphthalene	ug/kg	<8.3	16.7	11/19/14 10:54	
Phenanthrene	ug/kg	<8.3	16.7	11/19/14 10:54	
Pyrene	ug/kg	<8.3	16.7	11/19/14 10:54	
2-Fluorobiphenyl (S)	%	74	40-130	11/19/14 10:54	
Terphenyl-d14 (S)	%	79	40-130	11/19/14 10:54	

LABORATORY CONTROL SAMPLE: 1084803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	276	83	47-130	
2-Methylnaphthalene	ug/kg	333	247	74	48-130	
Acenaphthene	ug/kg	333	270	81	55-130	
Acenaphthylene	ug/kg	333	282	85	55-130	
Anthracene	ug/kg	333	329	99	66-130	
Benzo(a)anthracene	ug/kg	333	276	83	55-130	
Benzo(a)pyrene	ug/kg	333	279	84	56-130	
Benzo(b)fluoranthene	ug/kg	333	265	80	53-130	
Benzo(g,h,i)perylene	ug/kg	333	292	87	51-130	
Benzo(k)fluoranthene	ug/kg	333	275	83	52-130	
Chrysene	ug/kg	333	315	94	58-130	
Dibenz(a,h)anthracene	ug/kg	333	276	83	55-130	
Fluoranthene	ug/kg	333	279	84	62-130	
Fluorene	ug/kg	333	276	83	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	285	86	54-130	
Naphthalene	ug/kg	333	245	74	41-130	

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

LABORATORY CONTROL SAMPLE: 1084803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	267	80	60-130	
Pyrene	ug/kg	333	284	85	51-130	
2-Fluorobiphenyl (S)	%			74	40-130	
Terphenyl-d14 (S)	%			77	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1084804 1084805

Parameter	Units	1084804		1084805		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
1-Methylnaphthalene	ug/kg	12.4J	344	344	293	299	81	83	42-130	2	32
2-Methylnaphthalene	ug/kg	24.2	344	344	279	282	74	75	34-130	1	35
Acenaphthene	ug/kg	<8.6	344	344	264	277	77	80	31-130	5	35
Acenaphthylene	ug/kg	<7.7	344	344	283	293	82	85	32-130	4	25
Anthracene	ug/kg	<8.9	344	344	302	336	87	97	39-131	11	38
Benzo(a)anthracene	ug/kg	<6.0	344	344	269	283	78	82	29-130	5	30
Benzo(a)pyrene	ug/kg	<6.2	344	344	278	288	81	83	35-130	4	33
Benzo(b)fluoranthene	ug/kg	<8.6	344	344	254	265	74	77	21-142	4	44
Benzo(g,h,i)perylene	ug/kg	<6.6	344	344	274	282	79	82	12-134	3	33
Benzo(k)fluoranthene	ug/kg	<9.5	344	344	259	272	75	79	35-130	5	37
Chrysene	ug/kg	<8.0	344	344	298	310	86	89	37-130	4	38
Dibenz(a,h)anthracene	ug/kg	<6.3	344	344	261	272	76	79	23-130	4	27
Fluoranthene	ug/kg	<8.6	344	344	277	292	80	84	29-137	5	50
Fluorene	ug/kg	<8.6	344	344	272	284	79	82	32-130	4	32
Indeno(1,2,3-cd)pyrene	ug/kg	<6.5	344	344	269	277	78	80	17-134	3	28
Naphthalene	ug/kg	<8.6	344	344	252	250	72	71	24-130	1	40
Phenanthrene	ug/kg	<8.6	344	344	283	297	81	85	27-135	5	46
Pyrene	ug/kg	<8.6	344	344	285	295	82	85	24-130	3	49
2-Fluorobiphenyl (S)	%						71	71	40-130		
Terphenyl-d14 (S)	%						69	72	40-130		

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

QC Batch: OEXT/25280 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40106936013

METHOD BLANK: 1085154 Matrix: Solid
Associated Lab Samples: 40106936013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<8.3	16.7	11/20/14 08:51	
2-Methylnaphthalene	ug/kg	<8.3	16.7	11/20/14 08:51	
Acenaphthene	ug/kg	<8.3	16.7	11/20/14 08:51	
Acenaphthylene	ug/kg	<7.5	16.7	11/20/14 08:51	
Anthracene	ug/kg	<8.6	16.7	11/20/14 08:51	
Benzo(a)anthracene	ug/kg	<5.8	16.7	11/20/14 08:51	
Benzo(a)pyrene	ug/kg	<6.0	16.7	11/20/14 08:51	
Benzo(b)fluoranthene	ug/kg	<8.3	16.7	11/20/14 08:51	
Benzo(g,h,i)perylene	ug/kg	<6.3	16.7	11/20/14 08:51	
Benzo(k)fluoranthene	ug/kg	<9.2	16.7	11/20/14 08:51	
Chrysene	ug/kg	<7.7	16.7	11/20/14 08:51	
Dibenz(a,h)anthracene	ug/kg	<6.1	16.7	11/20/14 08:51	
Fluoranthene	ug/kg	<8.3	16.7	11/20/14 08:51	
Fluorene	ug/kg	<8.3	16.7	11/20/14 08:51	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.3	16.7	11/20/14 08:51	
Naphthalene	ug/kg	<8.3	16.7	11/20/14 08:51	
Phenanthrene	ug/kg	<8.3	16.7	11/20/14 08:51	
Pyrene	ug/kg	<8.3	16.7	11/20/14 08:51	
2-Fluorobiphenyl (S)	%	71	40-130	11/20/14 08:51	
Terphenyl-d14 (S)	%	69	40-130	11/20/14 08:51	

LABORATORY CONTROL SAMPLE: 1085155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	267	80	47-130	
2-Methylnaphthalene	ug/kg	333	241	72	48-130	
Acenaphthene	ug/kg	333	263	79	55-130	
Acenaphthylene	ug/kg	333	272	82	55-130	
Anthracene	ug/kg	333	318	96	66-130	
Benzo(a)anthracene	ug/kg	333	265	79	55-130	
Benzo(a)pyrene	ug/kg	333	267	80	56-130	
Benzo(b)fluoranthene	ug/kg	333	237	71	53-130	
Benzo(g,h,i)perylene	ug/kg	333	286	86	51-130	
Benzo(k)fluoranthene	ug/kg	333	281	84	52-130	
Chrysene	ug/kg	333	309	93	58-130	
Dibenz(a,h)anthracene	ug/kg	333	271	81	55-130	
Fluoranthene	ug/kg	333	271	81	62-130	
Fluorene	ug/kg	333	272	82	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	279	84	54-130	
Naphthalene	ug/kg	333	232	70	41-130	

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

LABORATORY CONTROL SAMPLE: 1085155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	258	77	60-130	
Pyrene	ug/kg	333	272	82	51-130	
2-Fluorobiphenyl (S)	%			70	40-130	
Terphenyl-d14 (S)	%			71	40-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1085166 1085167

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40107216006 Result	Spike Conc.	Spike Conc.	Conc.								
1-Methylnaphthalene	ug/kg	<9.5	381	381	344	348	90	91	42-130	1	32		
2-Methylnaphthalene	ug/kg	<9.5	381	381	314	318	82	83	34-130	1	35		
Acenaphthene	ug/kg	<9.5	381	381	338	335	89	88	31-130	1	35		
Acenaphthylene	ug/kg	<8.5	381	381	347	346	91	91	32-130	0	25		
Anthracene	ug/kg	<9.9	381	381	394	390	103	102	39-131	1	38		
Benzo(a)anthracene	ug/kg	<6.6	381	381	320	312	84	82	29-130	2	30		
Benzo(a)pyrene	ug/kg	<6.8	381	381	325	318	85	83	35-130	2	33		
Benzo(b)fluoranthene	ug/kg	<9.5	381	381	289	275	76	72	21-142	5	44		
Benzo(g,h,i)perylene	ug/kg	<7.3	381	381	346	338	91	89	12-134	2	33		
Benzo(k)fluoranthene	ug/kg	<10.6	381	381	339	343	89	90	35-130	1	37		
Chrysene	ug/kg	<8.8	381	381	376	372	98	97	37-130	1	38		
Dibenz(a,h)anthracene	ug/kg	<7.0	381	381	328	322	86	84	23-130	2	27		
Fluoranthene	ug/kg	<9.5	381	381	330	323	86	85	29-137	2	50		
Fluorene	ug/kg	<9.5	381	381	344	340	90	89	32-130	1	32		
Indeno(1,2,3-cd)pyrene	ug/kg	<7.3	381	381	338	331	89	87	17-134	2	28		
Naphthalene	ug/kg	<9.5	381	381	309	317	81	83	24-130	3	40		
Phenanthrene	ug/kg	<9.5	381	381	317	311	83	81	27-135	2	46		
Pyrene	ug/kg	<9.5	381	381	332	328	87	86	24-130	1	49		
2-Fluorobiphenyl (S)	%						71	72	40-130				
Terphenyl-d14 (S)	%						66	67	40-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: FREI OIL
Pace Project No.: 40106936

QC Batch: PMST/10625 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40106936001, 40106936004, 40106936007, 40106936008, 40106936009, 40106936011, 40106936013

SAMPLE DUPLICATE: 1083085

Parameter	Units	40106971002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.9	7.9	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: FREI OIL
Pace Project No.: 40106936

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSSV/7420

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

W Non-detect results are reported on a wet weight basis.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: FREI OIL
Pace Project No.: 40106936

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40106936001	B-1, 7'	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936004	B-3, 7'	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936007	B-5, 3.5'	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936008	B-6, 3'	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936009	B-7, 3.5'	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936011	B-8, 3.5'	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936013	B-9, 3.5	TPH GRO/PVOC WI ext.	GCV/13544	WI MOD GRO	GCV/13549
40106936002	B-1	WI MOD GRO	GCV/13542		
40106936003	B-2	WI MOD GRO	GCV/13542		
40106936005	B-3	WI MOD GRO	GCV/13542		
40106936006	B-4	WI MOD GRO	GCV/13542		
40106936010	B-7	WI MOD GRO	GCV/13542		
40106936012	B-8	WI MOD GRO	GCV/13542		
40106936014	B-9	WI MOD GRO	GCV/13542		
40106936015	B-10	WI MOD GRO	GCV/13542		
40106936007	B-5, 3.5'	EPA 3546	OEXT/25254	EPA 8270 by SIM	MSSV/7420
40106936008	B-6, 3'	EPA 3546	OEXT/25254	EPA 8270 by SIM	MSSV/7420
40106936009	B-7, 3.5'	EPA 3546	OEXT/25254	EPA 8270 by SIM	MSSV/7420
40106936011	B-8, 3.5'	EPA 3546	OEXT/25272	EPA 8270 by SIM	MSSV/7425
40106936013	B-9, 3.5	EPA 3546	OEXT/25280	EPA 8270 by SIM	MSSV/7428
40106936001	B-1, 7'	ASTM D2974-87	PMST/10625		
40106936004	B-3, 7'	ASTM D2974-87	PMST/10625		
40106936007	B-5, 3.5'	ASTM D2974-87	PMST/10625		
40106936008	B-6, 3'	ASTM D2974-87	PMST/10625		
40106936009	B-7, 3.5'	ASTM D2974-87	PMST/10625		
40106936011	B-8, 3.5'	ASTM D2974-87	PMST/10625		
40106936013	B-9, 3.5	ASTM D2974-87	PMST/10625		

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CHAIN OF CUSTODY

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

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

Page 1 of 2
 40106936
 40102 11/12/14

Page 27 of 29

Company Name: Seymour Env.
 Branch/Location:
 Project Contact: Robyn Seymour
 Phone: 608 838 9120
 Project Number:
 Project Name: FRED OI
 Project State: Wisconsin
 Sampled By (Print): Robyn Seymour
 Sampled By (Sign): Robyn Seymour
 PO #:
 Regulatory Program:
 Data Package Options:
 EPA Level III On your sample (billable)
 EPA Level IV NOT needed on your sample

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

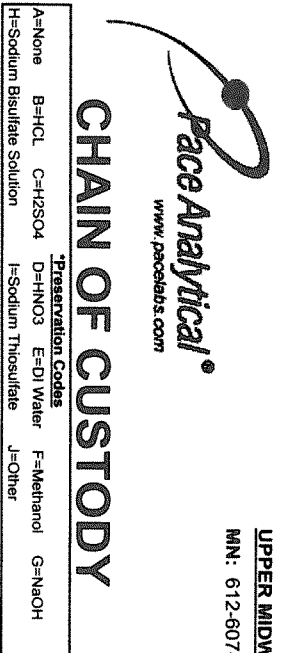
V/I/M	Pick Letter	Analysis Requested
V	F3	PVOC+Naph
V	A	PAHs

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX	Matrix Codes	
					A= Air	W= Water
001	B-1, 1'	11/7	1015	S		
002	B-1		1020	AW		
003	B-2		1115	BW		
004	B-3, 1'		1125	AW		
005	B-3		1140	AW		
006	B-4		1215	AW		
007	B-5, 3.5'		1220	S		
008	B-6, 3		1230	S		
009	B-7, 3.5		1240	S		
010	B-7		1300	AW		
011	B-8, 3.5		1330	S		
012	B-8		1400	AW		
013	B-9, 3.5		1410	S		

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Relinquished By: Robyn Seymour
 Date/Time: 11/11/14
 Relinquished By: FedEx
 Date/Time: 11/12/14 1020
 Relinquished By:
 Date/Time:
 Relinquished By:
 Date/Time:

Quote #:
 Mail To Contact: Robyn Seymour
 Mail To Company: Seymour Env.
 Mail To Address: 25310yreson mferland, WI
 Invoice To Contact: Same
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only): 1-40ml F, 3-40ml B, 1-40zap A, 1-40zap A
 Profile #:
 Receipt Temp = R01 °C
 Sample Receipt pH:
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)



CHAIN OF CUSTODY

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

Page 2 of 2

Page 28 of 29

Company Name: Seymour Env.
 Branch/Location:
 Project Contact: Robyn Seymour
 Phone: 608 838 9120
 Project Number:
 Project Name: Frei, O1
 Project State: Wisconsin
 Sampled By (Print): Robyn Seymour
 Sampled By (Sign): Robyn Seymour
 PO #: _____
 Regulatory Program: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV
 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 WWP = Waste Water
 SI = Sludge WP = Wipe

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX
O14	B-9	11/7	1430	(W)
O15	B-10	11/7	1430	(W)

Y/I/N	Pick Letter	Analyses Requested	Relinquished By:	Date/Time:	Received By:	Date/Time:
N	B	PVOC, Haph	Robyn Seymour	11/11/14 PM	Robyn Seymour	11/12/14 1020

Quote #: _____
 Mail To Contact: Robyn Seymour
 Mail To Company: Seymour Env
 Mail To Address: 253109yreson Road
 McFarland, WI 53588
 Invoice To Contact: Sam
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS: 3-40m1 B
 LAB COMMENTS (Lab Use Only):
 Profile #:
PACE Project No.
 Receipt Temp = 20.1 °C
 Sample Receipt pH:
 Cooler Custody Seal Present / Not Present Intact / Not Intact

September 22, 2015

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10692.00 FREI OIL
Pace Project No.: 40121042

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on September 15, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40121042001	MW-1	Water	09/11/15 10:25	09/15/15 08:00
40121042002	MW-2	Water	09/11/15 10:50	09/15/15 08:00
40121042003	MW-3	Water	09/11/15 11:15	09/15/15 08:00
40121042004	MW-4	Water	09/11/15 11:35	09/15/15 08:00

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SAMPLE ANALYTE COUNT

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40121042001	MW-1	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
40121042002	MW-2	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
40121042003	MW-3	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G
40121042004	MW-4	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	LAP	64	PASI-G

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PROJECT NARRATIVE

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Method: EPA 8270 by HVI

Description: 8270 MSSV PAH by HVI

Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.

Date: September 22, 2015

General Information:

4 samples were analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 10692.00 FREI OIL
Pace Project No.: 40121042

Method: EPA 8260
Description: 8260 MSV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: September 22, 2015

General Information:

4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.

- MW-1 (Lab ID: 40121042001)
- MW-4 (Lab ID: 40121042004)

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/30147

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1221082)
 - Chloroform
 - Trichlorofluoromethane

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-1 **Lab ID: 40121042001** Collected: 09/11/15 10:25 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0048	ug/L	0.049	0.0048	1	09/17/15 08:24	09/18/15 20:59	83-32-9	
Acenaphthylene	<0.0048	ug/L	0.049	0.0048	1	09/17/15 08:24	09/18/15 20:59	208-96-8	
Anthracene	<0.0039	ug/L	0.049	0.0039	1	09/17/15 08:24	09/18/15 20:59	120-12-7	
Benzo(a)anthracene	<0.0050	ug/L	0.049	0.0050	1	09/17/15 08:24	09/18/15 20:59	56-55-3	
Benzo(a)pyrene	<0.0043	ug/L	0.049	0.0043	1	09/17/15 08:24	09/18/15 20:59	50-32-8	
Benzo(b)fluoranthene	<0.0052	ug/L	0.049	0.0052	1	09/17/15 08:24	09/18/15 20:59	205-99-2	
Benzo(g,h,i)perylene	<0.0034	ug/L	0.049	0.0034	1	09/17/15 08:24	09/18/15 20:59	191-24-2	
Benzo(k)fluoranthene	<0.0055	ug/L	0.049	0.0055	1	09/17/15 08:24	09/18/15 20:59	207-08-9	
Chrysene	0.010J	ug/L	0.049	0.0041	1	09/17/15 08:24	09/18/15 20:59	218-01-9	
Dibenz(a,h)anthracene	<0.0054	ug/L	0.049	0.0054	1	09/17/15 08:24	09/18/15 20:59	53-70-3	
Fluoranthene	<0.0091	ug/L	0.049	0.0091	1	09/17/15 08:24	09/18/15 20:59	206-44-0	
Fluorene	<0.0039	ug/L	0.049	0.0039	1	09/17/15 08:24	09/18/15 20:59	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0035	ug/L	0.049	0.0035	1	09/17/15 08:24	09/18/15 20:59	193-39-5	
1-Methylnaphthalene	0.010J	ug/L	0.049	0.0030	1	09/17/15 08:24	09/18/15 20:59	90-12-0	
2-Methylnaphthalene	0.0051J	ug/L	0.049	0.0027	1	09/17/15 08:24	09/18/15 20:59	91-57-6	
Naphthalene	0.0070J	ug/L	0.049	0.0044	1	09/17/15 08:24	09/18/15 20:59	91-20-3	
Phenanthrene	0.016J	ug/L	0.049	0.0074	1	09/17/15 08:24	09/18/15 20:59	85-01-8	
Pyrene	0.0079J	ug/L	0.049	0.0075	1	09/17/15 08:24	09/18/15 20:59	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	80	%	40-130		1	09/17/15 08:24	09/18/15 20:59	321-60-8	
Terphenyl-d14 (S)	66	%	26-135		1	09/17/15 08:24	09/18/15 20:59	1718-51-0	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/17/15 14:31	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/17/15 14:31	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/17/15 14:31	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 14:31	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/17/15 14:31	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/17/15 14:31	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/17/15 14:31	67-66-3	L3
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/17/15 14:31	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/17/15 14:31	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/17/15 14:31	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/17/15 14:31	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-1 **Lab ID: 40121042001** Collected: 09/11/15 10:25 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/17/15 14:31	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/17/15 14:31	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/17/15 14:31	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/17/15 14:31	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 14:31	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 14:31	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/17/15 14:31	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/17/15 14:31	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/17/15 14:31	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/17/15 14:31	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/17/15 14:31	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/17/15 14:31	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/17/15 14:31	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/17/15 14:31	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/17/15 14:31	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/17/15 14:31	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/17/15 14:31	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/17/15 14:31	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 14:31	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/17/15 14:31	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/17/15 14:31	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/17/15 14:31	75-69-4	L3
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/17/15 14:31	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/17/15 14:31	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/17/15 14:31	460-00-4	pH
Dibromofluoromethane (S)	91	%	70-130		1		09/17/15 14:31	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		09/17/15 14:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-2 **Lab ID: 40121042002** Collected: 09/11/15 10:50 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.072	ug/L	0.046	0.0046	1	09/17/15 08:24	09/18/15 21:17	83-32-9	
Acenaphthylene	0.033J	ug/L	0.046	0.0046	1	09/17/15 08:24	09/18/15 21:17	208-96-8	
Anthracene	0.012J	ug/L	0.046	0.0037	1	09/17/15 08:24	09/18/15 21:17	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.046	0.0048	1	09/17/15 08:24	09/18/15 21:17	56-55-3	
Benzo(a)pyrene	<0.0041	ug/L	0.046	0.0041	1	09/17/15 08:24	09/18/15 21:17	50-32-8	
Benzo(b)fluoranthene	<0.0049	ug/L	0.046	0.0049	1	09/17/15 08:24	09/18/15 21:17	205-99-2	
Benzo(g,h,i)perylene	<0.0032	ug/L	0.046	0.0032	1	09/17/15 08:24	09/18/15 21:17	191-24-2	
Benzo(k)fluoranthene	<0.0052	ug/L	0.046	0.0052	1	09/17/15 08:24	09/18/15 21:17	207-08-9	
Chrysene	0.0060J	ug/L	0.046	0.0039	1	09/17/15 08:24	09/18/15 21:17	218-01-9	
Dibenz(a,h)anthracene	<0.0051	ug/L	0.046	0.0051	1	09/17/15 08:24	09/18/15 21:17	53-70-3	
Fluoranthene	<0.0087	ug/L	0.046	0.0087	1	09/17/15 08:24	09/18/15 21:17	206-44-0	
Fluorene	0.029J	ug/L	0.046	0.0037	1	09/17/15 08:24	09/18/15 21:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.046	0.0033	1	09/17/15 08:24	09/18/15 21:17	193-39-5	
1-Methylnaphthalene	0.033J	ug/L	0.046	0.0029	1	09/17/15 08:24	09/18/15 21:17	90-12-0	
2-Methylnaphthalene	0.034J	ug/L	0.046	0.0025	1	09/17/15 08:24	09/18/15 21:17	91-57-6	
Naphthalene	0.071	ug/L	0.046	0.0042	1	09/17/15 08:24	09/18/15 21:17	91-20-3	
Phenanthrene	0.014J	ug/L	0.046	0.0071	1	09/17/15 08:24	09/18/15 21:17	85-01-8	
Pyrene	0.0092J	ug/L	0.046	0.0071	1	09/17/15 08:24	09/18/15 21:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%	40-130		1	09/17/15 08:24	09/18/15 21:17	321-60-8	
Terphenyl-d14 (S)	66	%	26-135		1	09/17/15 08:24	09/18/15 21:17	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	252	ug/L	1.0	0.50	1		09/17/15 14:53	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/17/15 14:53	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/17/15 14:53	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/17/15 14:53	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 14:53	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/17/15 14:53	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/17/15 14:53	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/17/15 14:53	67-66-3	L3
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/17/15 14:53	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/17/15 14:53	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/17/15 14:53	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/17/15 14:53	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-2 Lab ID: 40121042002 Collected: 09/11/15 10:50 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/17/15 14:53	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/17/15 14:53	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/17/15 14:53	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/17/15 14:53	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 14:53	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 14:53	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/17/15 14:53	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/17/15 14:53	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/17/15 14:53	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/17/15 14:53	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	108-20-3	
Ethylbenzene	63.8	ug/L	1.0	0.50	1		09/17/15 14:53	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/17/15 14:53	87-68-3	
Isopropylbenzene (Cumene)	1.4	ug/L	1.0	0.14	1		09/17/15 14:53	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/17/15 14:53	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/17/15 14:53	1634-04-4	
Naphthalene	4.5J	ug/L	5.0	2.5	1		09/17/15 14:53	91-20-3	
n-Propylbenzene	2.9	ug/L	1.0	0.50	1		09/17/15 14:53	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/17/15 14:53	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/17/15 14:53	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	127-18-4	
Toluene	4.5	ug/L	1.0	0.50	1		09/17/15 14:53	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/17/15 14:53	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 14:53	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/17/15 14:53	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/17/15 14:53	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/17/15 14:53	75-69-4	L3
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 14:53	96-18-4	
1,2,4-Trimethylbenzene	26.0	ug/L	1.0	0.50	1		09/17/15 14:53	95-63-6	
1,3,5-Trimethylbenzene	7.0	ug/L	1.0	0.50	1		09/17/15 14:53	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/17/15 14:53	75-01-4	
m&p-Xylene	141	ug/L	2.0	1.0	1		09/17/15 14:53	179601-23-1	
o-Xylene	1.6	ug/L	1.0	0.50	1		09/17/15 14:53	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		09/17/15 14:53	460-00-4	
Dibromofluoromethane (S)	88	%	70-130		1		09/17/15 14:53	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/17/15 14:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-3 **Lab ID: 40121042003** Collected: 09/11/15 11:15 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.076	ug/L	0.046	0.0046	1	09/17/15 08:24	09/18/15 15:28	83-32-9	
Acenaphthylene	0.026J	ug/L	0.046	0.0046	1	09/17/15 08:24	09/18/15 15:28	208-96-8	
Anthracene	<0.0037	ug/L	0.046	0.0037	1	09/17/15 08:24	09/18/15 15:28	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.046	0.0048	1	09/17/15 08:24	09/18/15 15:28	56-55-3	
Benzo(a)pyrene	<0.0041	ug/L	0.046	0.0041	1	09/17/15 08:24	09/18/15 15:28	50-32-8	
Benzo(b)fluoranthene	<0.0049	ug/L	0.046	0.0049	1	09/17/15 08:24	09/18/15 15:28	205-99-2	
Benzo(g,h,i)perylene	<0.0032	ug/L	0.046	0.0032	1	09/17/15 08:24	09/18/15 15:28	191-24-2	
Benzo(k)fluoranthene	<0.0052	ug/L	0.046	0.0052	1	09/17/15 08:24	09/18/15 15:28	207-08-9	
Chrysene	0.0066J	ug/L	0.046	0.0039	1	09/17/15 08:24	09/18/15 15:28	218-01-9	
Dibenz(a,h)anthracene	<0.0051	ug/L	0.046	0.0051	1	09/17/15 08:24	09/18/15 15:28	53-70-3	
Fluoranthene	<0.0087	ug/L	0.046	0.0087	1	09/17/15 08:24	09/18/15 15:28	206-44-0	
Fluorene	0.042J	ug/L	0.046	0.0037	1	09/17/15 08:24	09/18/15 15:28	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.046	0.0033	1	09/17/15 08:24	09/18/15 15:28	193-39-5	
1-Methylnaphthalene	0.052	ug/L	0.046	0.0029	1	09/17/15 08:24	09/18/15 15:28	90-12-0	
2-Methylnaphthalene	0.045J	ug/L	0.046	0.0025	1	09/17/15 08:24	09/18/15 15:28	91-57-6	
Naphthalene	0.028J	ug/L	0.046	0.0042	1	09/17/15 08:24	09/18/15 15:28	91-20-3	
Phenanthrene	0.013J	ug/L	0.046	0.0071	1	09/17/15 08:24	09/18/15 15:28	85-01-8	
Pyrene	<0.0071	ug/L	0.046	0.0071	1	09/17/15 08:24	09/18/15 15:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	40-130		1	09/17/15 08:24	09/18/15 15:28	321-60-8	
Terphenyl-d14 (S)	85	%	26-135		1	09/17/15 08:24	09/18/15 15:28	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	1.1	ug/L	1.0	0.50	1		09/17/15 08:20	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/17/15 08:20	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/17/15 08:20	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/17/15 08:20	74-83-9	
n-Butylbenzene	0.64J	ug/L	1.0	0.50	1		09/17/15 08:20	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 08:20	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/17/15 08:20	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/17/15 08:20	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/17/15 08:20	67-66-3	L3
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/17/15 08:20	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/17/15 08:20	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/17/15 08:20	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/17/15 08:20	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-3 **Lab ID: 40121042003** Collected: 09/11/15 11:15 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/17/15 08:20	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/17/15 08:20	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/17/15 08:20	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/17/15 08:20	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 08:20	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 08:20	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/17/15 08:20	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/17/15 08:20	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/17/15 08:20	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/17/15 08:20	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	108-20-3	
Ethylbenzene	2.2	ug/L	1.0	0.50	1		09/17/15 08:20	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/17/15 08:20	87-68-3	
Isopropylbenzene (Cumene)	0.52J	ug/L	1.0	0.14	1		09/17/15 08:20	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/17/15 08:20	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		09/17/15 08:20	1634-04-4	
Naphthalene	8.3	ug/L	5.0	2.5	1		09/17/15 08:20	91-20-3	
n-Propylbenzene	0.68J	ug/L	1.0	0.50	1		09/17/15 08:20	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/17/15 08:20	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/17/15 08:20	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/17/15 08:20	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 08:20	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/17/15 08:20	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/17/15 08:20	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/17/15 08:20	75-69-4	L3
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	96-18-4	
1,2,4-Trimethylbenzene	4.5	ug/L	1.0	0.50	1		09/17/15 08:20	95-63-6	
1,3,5-Trimethylbenzene	1.3	ug/L	1.0	0.50	1		09/17/15 08:20	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/17/15 08:20	75-01-4	
m&p-Xylene	4.5	ug/L	2.0	1.0	1		09/17/15 08:20	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/17/15 08:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		09/17/15 08:20	460-00-4	
Dibromofluoromethane (S)	90	%	70-130		1		09/17/15 08:20	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/17/15 08:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-4 Lab ID: 40121042004 Collected: 09/11/15 11:35 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0052	ug/L	0.053	0.0052	1	09/17/15 08:24	09/21/15 15:41	83-32-9	
Acenaphthylene	<0.0052	ug/L	0.053	0.0052	1	09/17/15 08:24	09/21/15 15:41	208-96-8	
Anthracene	<0.0043	ug/L	0.053	0.0043	1	09/17/15 08:24	09/21/15 15:41	120-12-7	
Benzo(a)anthracene	<0.0054	ug/L	0.053	0.0054	1	09/17/15 08:24	09/21/15 15:41	56-55-3	
Benzo(a)pyrene	<0.0047	ug/L	0.053	0.0047	1	09/17/15 08:24	09/21/15 15:41	50-32-8	
Benzo(b)fluoranthene	<0.0056	ug/L	0.053	0.0056	1	09/17/15 08:24	09/21/15 15:41	205-99-2	
Benzo(g,h,i)perylene	<0.0037	ug/L	0.053	0.0037	1	09/17/15 08:24	09/21/15 15:41	191-24-2	
Benzo(k)fluoranthene	<0.0059	ug/L	0.053	0.0059	1	09/17/15 08:24	09/21/15 15:41	207-08-9	
Chrysene	0.010J	ug/L	0.053	0.0045	1	09/17/15 08:24	09/21/15 15:41	218-01-9	
Dibenz(a,h)anthracene	<0.0059	ug/L	0.053	0.0059	1	09/17/15 08:24	09/21/15 15:41	53-70-3	
Fluoranthene	<0.0099	ug/L	0.053	0.0099	1	09/17/15 08:24	09/21/15 15:41	206-44-0	
Fluorene	<0.0043	ug/L	0.053	0.0043	1	09/17/15 08:24	09/21/15 15:41	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0038	ug/L	0.053	0.0038	1	09/17/15 08:24	09/21/15 15:41	193-39-5	
1-Methylnaphthalene	0.017J	ug/L	0.053	0.0033	1	09/17/15 08:24	09/21/15 15:41	90-12-0	
2-Methylnaphthalene	0.0083J	ug/L	0.053	0.0029	1	09/17/15 08:24	09/21/15 15:41	91-57-6	
Naphthalene	0.0084J	ug/L	0.053	0.0048	1	09/17/15 08:24	09/21/15 15:41	91-20-3	
Phenanthrene	0.022J	ug/L	0.053	0.0081	1	09/17/15 08:24	09/21/15 15:41	85-01-8	
Pyrene	0.013J	ug/L	0.053	0.0081	1	09/17/15 08:24	09/21/15 15:41	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%	40-130		1	09/17/15 08:24	09/21/15 15:41	321-60-8	
Terphenyl-d14 (S)	70	%	26-135		1	09/17/15 08:24	09/21/15 15:41	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		09/17/15 18:07	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		09/17/15 15:14	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		09/17/15 15:14	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		09/17/15 15:14	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 15:14	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		09/17/15 15:14	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		09/17/15 15:14	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		09/17/15 15:14	67-66-3	L3
Chloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		09/17/15 15:14	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		09/17/15 15:14	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		09/17/15 15:14	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		09/17/15 15:14	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Sample: MW-4 **Lab ID: 40121042004** Collected: 09/11/15 11:35 Received: 09/15/15 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		09/17/15 15:14	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		09/17/15 15:14	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		09/17/15 15:14	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		09/17/15 15:14	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 15:14	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		09/17/15 15:14	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		09/17/15 15:14	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		09/17/15 15:14	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		09/17/15 15:14	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		09/17/15 15:14	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		09/17/15 15:14	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		09/17/15 15:14	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		09/17/15 15:14	75-09-2	
Methyl-tert-butyl ether	0.50J	ug/L	1.0	0.17	1		09/17/15 15:14	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		09/17/15 15:14	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		09/17/15 15:14	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		09/17/15 15:14	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		09/17/15 15:14	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		09/17/15 15:14	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		09/17/15 15:14	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		09/17/15 15:14	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		09/17/15 15:14	75-69-4	L3
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		09/17/15 15:14	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		09/17/15 15:14	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		09/17/15 15:14	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		09/17/15 15:14	460-00-4	pH
Dibromofluoromethane (S)	88	%	70-130		1		09/17/15 15:14	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		09/17/15 15:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

QC Batch: MSV/30147 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40121042001, 40121042002, 40121042003, 40121042004

METHOD BLANK: 1221081 Matrix: Water
Associated Lab Samples: 40121042001, 40121042002, 40121042003, 40121042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	09/17/15 06:31	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	09/17/15 06:31	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	09/17/15 06:31	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	09/17/15 06:31	
1,1-Dichloroethane	ug/L	<0.24	1.0	09/17/15 06:31	
1,1-Dichloroethene	ug/L	<0.41	1.0	09/17/15 06:31	
1,1-Dichloropropene	ug/L	<0.44	1.0	09/17/15 06:31	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	09/17/15 06:31	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	09/17/15 06:31	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	09/17/15 06:31	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	09/17/15 06:31	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	09/17/15 06:31	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	09/17/15 06:31	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	09/17/15 06:31	
1,2-Dichloroethane	ug/L	<0.17	1.0	09/17/15 06:31	
1,2-Dichloropropane	ug/L	<0.23	1.0	09/17/15 06:31	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	09/17/15 06:31	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	09/17/15 06:31	
1,3-Dichloropropane	ug/L	<0.50	1.0	09/17/15 06:31	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	09/17/15 06:31	
2,2-Dichloropropane	ug/L	<0.48	1.0	09/17/15 06:31	
2-Chlorotoluene	ug/L	<0.50	1.0	09/17/15 06:31	
4-Chlorotoluene	ug/L	<0.21	1.0	09/17/15 06:31	
Benzene	ug/L	<0.50	1.0	09/17/15 06:31	
Bromobenzene	ug/L	<0.23	1.0	09/17/15 06:31	
Bromochloromethane	ug/L	<0.34	1.0	09/17/15 06:31	
Bromodichloromethane	ug/L	<0.50	1.0	09/17/15 06:31	
Bromoform	ug/L	<0.50	1.0	09/17/15 06:31	
Bromomethane	ug/L	<2.4	5.0	09/17/15 06:31	
Carbon tetrachloride	ug/L	<0.50	1.0	09/17/15 06:31	
Chlorobenzene	ug/L	<0.50	1.0	09/17/15 06:31	
Chloroethane	ug/L	<0.37	1.0	09/17/15 06:31	
Chloroform	ug/L	<2.5	5.0	09/17/15 06:31	
Chloromethane	ug/L	<0.50	1.0	09/17/15 06:31	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	09/17/15 06:31	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	09/17/15 06:31	
Dibromochloromethane	ug/L	<0.50	1.0	09/17/15 06:31	
Dibromomethane	ug/L	<0.43	1.0	09/17/15 06:31	
Dichlorodifluoromethane	ug/L	<0.22	1.0	09/17/15 06:31	
Diisopropyl ether	ug/L	<0.50	1.0	09/17/15 06:31	
Ethylbenzene	ug/L	<0.50	1.0	09/17/15 06:31	

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

METHOD BLANK: 1221081

Matrix: Water

Associated Lab Samples: 40121042001, 40121042002, 40121042003, 40121042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	09/17/15 06:31	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	09/17/15 06:31	
m&p-Xylene	ug/L	<1.0	2.0	09/17/15 06:31	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	09/17/15 06:31	
Methylene Chloride	ug/L	<0.23	1.0	09/17/15 06:31	
n-Butylbenzene	ug/L	<0.50	1.0	09/17/15 06:31	
n-Propylbenzene	ug/L	<0.50	1.0	09/17/15 06:31	
Naphthalene	ug/L	<2.5	5.0	09/17/15 06:31	
o-Xylene	ug/L	<0.50	1.0	09/17/15 06:31	
p-Isopropyltoluene	ug/L	<0.50	1.0	09/17/15 06:31	
sec-Butylbenzene	ug/L	<2.2	5.0	09/17/15 06:31	
Styrene	ug/L	<0.50	1.0	09/17/15 06:31	
tert-Butylbenzene	ug/L	<0.18	1.0	09/17/15 06:31	
Tetrachloroethene	ug/L	<0.50	1.0	09/17/15 06:31	
Toluene	ug/L	<0.50	1.0	09/17/15 06:31	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	09/17/15 06:31	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	09/17/15 06:31	
Trichloroethene	ug/L	<0.33	1.0	09/17/15 06:31	
Trichlorofluoromethane	ug/L	<0.18	1.0	09/17/15 06:31	
Vinyl chloride	ug/L	<0.18	1.0	09/17/15 06:31	
4-Bromofluorobenzene (S)	%	106	70-130	09/17/15 06:31	
Dibromofluoromethane (S)	%	92	70-130	09/17/15 06:31	
Toluene-d8 (S)	%	101	70-130	09/17/15 06:31	

LABORATORY CONTROL SAMPLE: 1221082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.9	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.7	99	70-130	
1,1,2-Trichloroethane	ug/L	50	57.6	115	70-130	
1,1-Dichloroethane	ug/L	50	55.7	111	70-130	
1,1-Dichloroethene	ug/L	50	50.4	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	51.4	103	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.9	90	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	55.0	110	70-130	
1,2-Dichlorobenzene	ug/L	50	48.5	97	70-130	
1,2-Dichloroethane	ug/L	50	62.7	125	70-131	
1,2-Dichloropropane	ug/L	50	54.2	108	70-130	
1,3-Dichlorobenzene	ug/L	50	48.2	96	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
Benzene	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	61.9	124	70-130	
Bromoform	ug/L	50	57.8	116	68-130	
Bromomethane	ug/L	50	40.6	81	38-137	

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

LABORATORY CONTROL SAMPLE: 1221082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	59.1	118	70-130	
Chlorobenzene	ug/L	50	54.8	110	70-130	
Chloroethane	ug/L	50	50.7	101	70-136	
Chloroform	ug/L	50	65.3	131	70-130	L0
Chloromethane	ug/L	50	51.2	102	48-144	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	70-130	
cis-1,3-Dichloropropene	ug/L	50	50.7	101	70-130	
Dibromochloromethane	ug/L	50	54.9	110	70-130	
Dichlorodifluoromethane	ug/L	50	68.8	138	33-157	
Ethylbenzene	ug/L	50	61.2	122	70-132	
Isopropylbenzene (Cumene)	ug/L	50	60.3	121	70-130	
m&p-Xylene	ug/L	100	115	115	70-131	
Methyl-tert-butyl ether	ug/L	50	50.4	101	48-141	
Methylene Chloride	ug/L	50	50.8	102	70-130	
o-Xylene	ug/L	50	54.5	109	70-131	
Styrene	ug/L	50	58.2	116	70-130	
Tetrachloroethene	ug/L	50	62.8	126	70-130	
Toluene	ug/L	50	59.2	118	70-130	
trans-1,2-Dichloroethene	ug/L	50	52.3	105	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.5	95	70-130	
Trichloroethene	ug/L	50	61.9	124	70-130	
Trichlorofluoromethane	ug/L	50	77.7	155	50-150	L0
Vinyl chloride	ug/L	50	48.5	97	65-142	
4-Bromofluorobenzene (S)	%			118	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222102 1222103

Parameter	Units	40121042003		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.50	50	50	54.9	49.5	110	99	70-130	10	20			
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	49.7	47.1	99	94	70-130	5	20			
1,1,2-Trichloroethane	ug/L	<0.20	50	50	56.2	54.8	112	110	70-130	2	20			
1,1-Dichloroethane	ug/L	<0.24	50	50	51.8	47.9	104	96	70-134	8	20			
1,1-Dichloroethene	ug/L	<0.41	50	50	50.0	45.8	100	92	70-139	9	20			
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	54.5	51.9	109	104	70-130	5	20			
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	47.3	45.9	95	92	50-150	3	20			
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	53.9	52.4	108	105	70-130	3	20			
1,2-Dichlorobenzene	ug/L	<0.50	50	50	48.3	46.3	97	93	70-130	4	20			
1,2-Dichloroethane	ug/L	<0.17	50	50	60.4	55.2	121	110	70-132	9	20			
1,2-Dichloropropane	ug/L	<0.23	50	50	54.6	51.5	109	103	70-130	6	20			
1,3-Dichlorobenzene	ug/L	<0.50	50	50	47.7	45.5	95	91	70-130	5	20			
1,4-Dichlorobenzene	ug/L	<0.50	50	50	49.9	46.3	100	93	70-130	8	20			

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222102		1222103		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40121042003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Benzene	ug/L	1.1	50	50	51.9	47.9	102	94	70-130	8	20		
Bromodichloromethane	ug/L	<0.50	50	50	61.3	54.2	123	108	70-132	12	20		
Bromoform	ug/L	<0.50	50	50	58.0	53.4	116	107	68-130	8	20		
Bromomethane	ug/L	<2.4	50	50	41.6	40.3	83	81	38-141	3	20		
Carbon tetrachloride	ug/L	<0.50	50	50	56.3	51.4	113	103	70-130	9	20		
Chlorobenzene	ug/L	<0.50	50	50	53.1	49.2	106	98	70-130	8	20		
Chloroethane	ug/L	<0.37	50	50	46.7	45.6	93	91	66-152	2	20		
Chloroform	ug/L	<2.5	50	50	55.0	50.5	110	101	70-130	9	20		
Chloromethane	ug/L	<0.50	50	50	48.8	47.8	98	96	44-151	2	20		
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	47.8	48.3	96	97	70-130	1	20		
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	49.2	46.6	98	93	70-130	5	20		
Dibromochloromethane	ug/L	<0.50	50	50	53.6	49.8	107	100	70-130	7	20		
Dichlorodifluoromethane	ug/L	<0.22	50	50	62.1	57.0	124	114	29-160	9	20		
Ethylbenzene	ug/L	2.2	50	50	61.8	57.7	119	111	70-132	7	20		
Isopropylbenzene (Cumene)	ug/L	0.52J	50	50	58.8	54.9	117	109	70-130	7	20		
m&p-Xylene	ug/L	4.5	100	100	116	109	112	105	70-131	7	20		
Methyl-tert-butyl ether	ug/L	<0.17	50	50	49.9	47.8	100	96	48-143	4	20		
Methylene Chloride	ug/L	<0.23	50	50	51.5	46.7	103	93	70-130	10	20		
o-Xylene	ug/L	<0.50	50	50	55.3	50.8	110	101	70-131	8	20		
Styrene	ug/L	<0.50	50	50	57.2	53.4	114	107	70-130	7	20		
Tetrachloroethene	ug/L	<0.50	50	50	61.0	57.5	122	115	70-130	6	20		
Toluene	ug/L	<0.50	50	50	57.3	53.8	115	108	70-130	6	20		
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	50.1	46.0	100	92	70-132	9	20		
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	47.3	43.9	95	88	70-130	7	20		
Trichloroethene	ug/L	<0.33	50	50	61.5	57.7	123	115	70-130	6	20		
Trichlorofluoromethane	ug/L	<0.18	50	50	74.5	67.6	149	135	50-153	10	20		
Vinyl chloride	ug/L	<0.18	50	50	46.8	44.5	94	89	60-155	5	20		
4-Bromofluorobenzene (S)	%						120	116	70-130				
Dibromofluoromethane (S)	%						98	97	70-130				
Toluene-d8 (S)	%						100	102	70-130				

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

QC Batch: OEXT/28005 Analysis Method: EPA 8270 by HVI
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
 Associated Lab Samples: 40121042001, 40121042002, 40121042003, 40121042004

METHOD BLANK: 1222132 Matrix: Water
 Associated Lab Samples: 40121042001, 40121042002, 40121042003, 40121042004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	09/17/15 14:37	
2-Methylnaphthalene	ug/L	<0.0028	0.050	09/17/15 14:37	
Acenaphthene	ug/L	<0.0050	0.050	09/17/15 14:37	
Acenaphthylene	ug/L	<0.0049	0.050	09/17/15 14:37	
Anthracene	ug/L	<0.0040	0.050	09/17/15 14:37	
Benzo(a)anthracene	ug/L	<0.0051	0.050	09/17/15 14:37	
Benzo(a)pyrene	ug/L	<0.0044	0.050	09/17/15 14:37	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	09/17/15 14:37	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	09/17/15 14:37	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	09/17/15 14:37	
Chrysene	ug/L	<0.0042	0.050	09/17/15 14:37	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	09/17/15 14:37	
Fluoranthene	ug/L	<0.0094	0.050	09/17/15 14:37	
Fluorene	ug/L	<0.0040	0.050	09/17/15 14:37	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	09/17/15 14:37	
Naphthalene	ug/L	<0.0045	0.050	09/17/15 14:37	
Phenanthrene	ug/L	<0.0077	0.050	09/17/15 14:37	
Pyrene	ug/L	<0.0077	0.050	09/17/15 14:37	
2-Fluorobiphenyl (S)	%	68	40-130	09/17/15 14:37	
Terphenyl-d14 (S)	%	103	26-135	09/17/15 14:37	

LABORATORY CONTROL SAMPLE: 1222133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	64	46-130	
2-Methylnaphthalene	ug/L	2	1.3	66	47-130	
Acenaphthene	ug/L	2	1.3	65	49-130	
Acenaphthylene	ug/L	2	1.4	70	44-130	
Anthracene	ug/L	2	1.3	64	53-130	
Benzo(a)anthracene	ug/L	2	1.6	78	49-130	
Benzo(a)pyrene	ug/L	2	1.8	90	47-130	
Benzo(b)fluoranthene	ug/L	2	1.6	78	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.1	56	33-132	
Benzo(k)fluoranthene	ug/L	2	1.9	97	59-143	
Chrysene	ug/L	2	2.4	121	70-157	
Dibenz(a,h)anthracene	ug/L	2	1.0	52	24-130	
Fluoranthene	ug/L	2	2.1	103	59-130	
Fluorene	ug/L	2	1.4	68	49-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.6	81	52-130	
Naphthalene	ug/L	2	1.2	61	45-130	

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

LABORATORY CONTROL SAMPLE: 1222133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.6	80	60-130	
Pyrene	ug/L	2	1.8	91	64-147	
2-Fluorobiphenyl (S)	%			61	40-130	
Terphenyl-d14 (S)	%			96	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1222134 1222135

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40121135001 Result	Spike Conc.	Spike Conc.	MS Result						
1-Methylnaphthalene	ug/L	1.7	2	2	3.5	3.6	90	91	27-130	0	42
2-Methylnaphthalene	ug/L	1.2	2	2	3.1	3.0	94	87	33-130	4	37
Acenaphthene	ug/L	0.067J	2	2	1.5	1.6	70	75	32-130	7	35
Acenaphthylene	ug/L	0.23	2	2	1.7	1.8	71	80	34-130	10	29
Anthracene	ug/L	0.21	2	2	1.6	1.6	67	72	31-130	6	29
Benzo(a)anthracene	ug/L	0.033J	2	2	0.96	0.95	46	46	35-135	1	20
Benzo(a)pyrene	ug/L	0.040J	2	2	0.85	0.89	41	43	21-139	4	22
Benzo(b)fluoranthene	ug/L	0.044J	2	2	0.69	0.71	32	34	26-144	3	20
Benzo(g,h,i)perylene	ug/L	0.040J	2	2	0.79	0.74	38	35	10-142	6	20
Benzo(k)fluoranthene	ug/L	0.030J	2	2	0.89	0.93	43	45	21-155	5	20
Chrysene	ug/L	0.084J	2	2	1.2	1.2	55	56	46-157	2	20
Dibenz(a,h)anthracene	ug/L	<0.022	2	2	0.59	0.61	30	31	10-143	3	20
Fluoranthene	ug/L	0.086J	2	2	1.6	1.6	73	78	35-138	5	20
Fluorene	ug/L	0.35	2	2	1.9	1.9	78	76	28-130	2	27
Indeno(1,2,3-cd)pyrene	ug/L	0.023J	2	2	0.66	0.73	32	35	16-139	10	20
Naphthalene	ug/L	0.092J	2	2	2.2	2.0	104	95	35-130	9	39
Phenanthrene	ug/L	0.62	2	2	2.5	2.3	95	86	41-131	7	22
Pyrene	ug/L	0.17J	2	2	1.5	1.5	68	67	50-151	1	20
2-Fluorobiphenyl (S)	%						62	66	40-130		
Terphenyl-d14 (S)	%						44	44	26-135		

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10692.00 FREI OIL

Pace Project No.: 40121042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40121042001	MW-1	EPA 3510	OEXT/28005	EPA 8270 by HVI	MSSV/8275
40121042002	MW-2	EPA 3510	OEXT/28005	EPA 8270 by HVI	MSSV/8275
40121042003	MW-3	EPA 3510	OEXT/28005	EPA 8270 by HVI	MSSV/8275
40121042004	MW-4	EPA 3510	OEXT/28005	EPA 8270 by HVI	MSSV/8275
40121042001	MW-1	EPA 8260	MSV/30147		
40121042002	MW-2	EPA 8260	MSV/30147		
40121042003	MW-3	EPA 8260	MSV/30147		
40121042004	MW-4	EPA 8260	MSV/30147		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)



EM

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

CHAIN OF CUSTODY

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

Company Name: **SEYNORE ENVIRON**
 Branch/Location: **McFARLAND**
 Project Contact: **ROBYN SEYNORE**
 Phone: **608-838-5120**
 Project Number: **10692.00**
 Project Name: **Fuel Oil**
 Project State: **WI**
 Sampled By (Print): **MARIE R. SEYNORE**
 Sampled By (Sign): *[Signature]*
 PO #: _____
 Regulatory Program: _____

Data Package Options
 EPA Level III
 EPA Level IV
MS/MSD
 On your sample (billable)
 NOT needed on your sample

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX	Analyses Requested	
					Y/N	Pick Letter
001	MW-1	9/11/15	10:25	GW	X	VOC
002	MW-2	10:50	GW	X	X	PAH
003	MW-3	11:15	GW	X	X	
004	MW-4	11:35	GW	X	X	

Matrix Codes
 A = Air B = Bids C = Charcoal O = Oil S = Soil SI = Sludge
 W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WP = Waste Water

Filtered? (YES/NO)
Preservation (CODE)

Quote #: _____
 Mail To Contact: **ROBYN SEYNORE**
 Mail To Company: **SEYNORE ENVIRON**
 Mail To Address: **2531 DRAKSON RD
 McFARLAND, WI 53558**
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): **2-100ml Ag A, 3-10ml V**

Relinquished By: *[Signature]* Date/Time: **9/14/15**
Relinquished By: *[Signature]* Date/Time: **9-15-15**
Relinquished By: *[Signature]* Date/Time: _____
Relinquished By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____
Received By: *[Signature]* Date/Time: **9-15-15**
Received By: _____ Date/Time: _____
Received By: _____ Date/Time: _____

FACE Project No. **40121042**
 Receipt Temp = **20.7°C**
 Sample Receipt pH _____
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

Sample Condition Upon Receipt

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



Client Name: Seymour Env. Project # WO# : 40121042

Courier: Fed Ex UPS Client Pace Other: Durham
Tracking #: 1053842



Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: N/A **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature: ROI / Corr. 9/15/15 **Biological Tissue is Frozen:** yes no

Temp Blank Present: yes no no

Person examining contents:
Date: 9-15-15
Initials: SW

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>PAH hold up 9/15/15</u> <u>9-15-15 SW</u>
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: <u>VOA</u> coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lab Std #ID of preservative Date/Time:
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>001- vial</u> <u>9-15-15 SW</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: Original and copy of COC in shipment. 9-15-15 SW

Project Manager Review: AMH for DM **Date:** 9/15/15

February 15, 2016

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10692.00 FREI OIL
Pace Project No.: 40127797

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on February 03, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
Virginia VELAP ID: 460263
North Dakota Certification #: R-150

South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP Certification ID: 460263
Virginia VELAP ID: 460263
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40127797001	MW-1	Water	01/28/16 10:50	02/03/16 07:45
40127797002	MW-2	Water	01/28/16 11:10	02/03/16 07:45
40127797003	MW-4	Water	01/28/16 11:45	02/03/16 07:45
40127797004	MW-3	Water	01/28/16 11:30	02/03/16 07:45

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SAMPLE ANALYTE COUNT

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40127797001	MW-1	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40127797002	MW-2	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40127797003	MW-4	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40127797004	MW-3	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40127797001	MW-1					
EPA 8270 by HVI	Benzo(a)pyrene	0.0044J	ug/L	0.045	02/13/16 03:49	
EPA 8270 by HVI	Benzo(b)fluoranthene	0.0071J	ug/L	0.045	02/13/16 03:49	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.0082J	ug/L	0.045	02/13/16 03:49	
EPA 8270 by HVI	Chrysene	0.017J	ug/L	0.045	02/13/16 03:49	B
EPA 8270 by HVI	Fluoranthene	0.011J	ug/L	0.045	02/13/16 03:49	
EPA 8270 by HVI	Fluorene	0.0043J	ug/L	0.045	02/13/16 03:49	
EPA 8270 by HVI	1-Methylnaphthalene	0.019J	ug/L	0.045	02/13/16 03:49	B
EPA 8270 by HVI	2-Methylnaphthalene	0.0078J	ug/L	0.045	02/13/16 03:49	B
EPA 8270 by HVI	Phenanthrene	0.041J	ug/L	0.045	02/13/16 03:49	B
EPA 8270 by HVI	Pyrene	0.022J	ug/L	0.045	02/13/16 03:49	B
40127797002	MW-2					
EPA 8270 by HVI	Acenaphthene	0.066	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	Acenaphthylene	0.014J	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	Anthracene	0.021J	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	Benzo(a)anthracene	0.0073J	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	Fluorene	0.054	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	1-Methylnaphthalene	0.95	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	2-Methylnaphthalene	0.36	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	Naphthalene	1.9	ug/L	0.045	02/09/16 20:34	
EPA 8270 by HVI	Phenanthrene	0.049	ug/L	0.045	02/09/16 20:34	B
EPA 8260	Benzene	432	ug/L	2.0	02/04/16 21:33	
EPA 8260	n-Butylbenzene	1.1J	ug/L	2.0	02/04/16 21:33	
EPA 8260	Chloroethane	2.4	ug/L	2.0	02/04/16 21:33	
EPA 8260	Ethylbenzene	139	ug/L	2.0	02/04/16 21:33	
EPA 8260	Isopropylbenzene (Cumene)	1.4J	ug/L	2.0	02/04/16 21:33	
EPA 8260	Methyl-tert-butyl ether	1.4J	ug/L	2.0	02/04/16 21:33	
EPA 8260	Naphthalene	14.8	ug/L	10.0	02/04/16 21:33	
EPA 8260	n-Propylbenzene	10.3	ug/L	2.0	02/04/16 21:33	
EPA 8260	Toluene	5.0	ug/L	2.0	02/04/16 21:33	
EPA 8260	1,2,4-Trimethylbenzene	15.3	ug/L	2.0	02/04/16 21:33	
EPA 8260	m&p-Xylene	54.7	ug/L	4.0	02/04/16 21:33	
40127797003	MW-4					
EPA 8270 by HVI	Anthracene	0.0062J	ug/L	0.047	02/13/16 04:05	
EPA 8270 by HVI	Benzo(g,h,i)perylene	0.0035J	ug/L	0.047	02/13/16 04:05	
EPA 8270 by HVI	Chrysene	0.021J	ug/L	0.047	02/13/16 04:05	B
EPA 8270 by HVI	1-Methylnaphthalene	0.0088J	ug/L	0.047	02/13/16 04:05	B
EPA 8270 by HVI	2-Methylnaphthalene	0.0074J	ug/L	0.047	02/13/16 04:05	B
EPA 8270 by HVI	Naphthalene	0.0058J	ug/L	0.047	02/13/16 04:05	B
EPA 8270 by HVI	Phenanthrene	0.017J	ug/L	0.047	02/13/16 04:05	B
EPA 8270 by HVI	Pyrene	0.011J	ug/L	0.047	02/13/16 04:05	B
EPA 8260	Methyl-tert-butyl ether	0.36J	ug/L	1.0	02/04/16 18:10	
40127797004	MW-3					
EPA 8270 by HVI	Acenaphthene	0.10	ug/L	0.045	02/13/16 04:22	
EPA 8270 by HVI	Acenaphthylene	0.014J	ug/L	0.045	02/13/16 04:22	
EPA 8270 by HVI	Anthracene	0.0048J	ug/L	0.045	02/13/16 04:22	
EPA 8270 by HVI	Fluorene	0.078	ug/L	0.045	02/13/16 04:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40127797004	MW-3					
EPA 8270 by HVI	1-Methylnaphthalene	0.76	ug/L	0.045	02/13/16 04:22	
EPA 8270 by HVI	2-Methylnaphthalene	0.076	ug/L	0.045	02/13/16 04:22	
EPA 8270 by HVI	Naphthalene	0.17	ug/L	0.045	02/13/16 04:22	B
EPA 8270 by HVI	Phenanthrene	0.029J	ug/L	0.045	02/13/16 04:22	B
EPA 8260	Benzene	1.2	ug/L	1.0	02/04/16 18:33	
EPA 8260	Ethylbenzene	2.1	ug/L	1.0	02/04/16 18:33	
EPA 8260	Naphthalene	5.9	ug/L	5.0	02/04/16 18:33	
EPA 8260	n-Propylbenzene	1.3	ug/L	1.0	02/04/16 18:33	
EPA 8260	1,2,4-Trimethylbenzene	0.84J	ug/L	1.0	02/04/16 18:33	
EPA 8260	m&p-Xylene	1.0J	ug/L	2.0	02/04/16 18:33	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-1 **Lab ID: 40127797001** Collected: 01/28/16 10:50 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	<0.0045	ug/L	0.045	0.0045	1	02/04/16 11:30	02/13/16 03:49	83-32-9	
Acenaphthylene	<0.0045	ug/L	0.045	0.0045	1	02/04/16 11:30	02/13/16 03:49	208-96-8	
Anthracene	<0.0037	ug/L	0.045	0.0037	1	02/04/16 11:30	02/13/16 03:49	120-12-7	
Benzo(a)anthracene	<0.0047	ug/L	0.045	0.0047	1	02/04/16 11:30	02/13/16 03:49	56-55-3	
Benzo(a)pyrene	0.0044J	ug/L	0.045	0.0040	1	02/04/16 11:30	02/13/16 03:49	50-32-8	
Benzo(b)fluoranthene	0.0071J	ug/L	0.045	0.0048	1	02/04/16 11:30	02/13/16 03:49	205-99-2	
Benzo(g,h,i)perylene	0.0082J	ug/L	0.045	0.0032	1	02/04/16 11:30	02/13/16 03:49	191-24-2	
Benzo(k)fluoranthene	<0.0051	ug/L	0.045	0.0051	1	02/04/16 11:30	02/13/16 03:49	207-08-9	
Chrysene	0.017J	ug/L	0.045	0.0039	1	02/04/16 11:30	02/13/16 03:49	218-01-9	B
Dibenz(a,h)anthracene	<0.0051	ug/L	0.045	0.0051	1	02/04/16 11:30	02/13/16 03:49	53-70-3	
Fluoranthene	0.011J	ug/L	0.045	0.0085	1	02/04/16 11:30	02/13/16 03:49	206-44-0	
Fluorene	0.0043J	ug/L	0.045	0.0037	1	02/04/16 11:30	02/13/16 03:49	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.045	0.0033	1	02/04/16 11:30	02/13/16 03:49	193-39-5	
1-Methylnaphthalene	0.019J	ug/L	0.045	0.0028	1	02/04/16 11:30	02/13/16 03:49	90-12-0	B
2-Methylnaphthalene	0.0078J	ug/L	0.045	0.0025	1	02/04/16 11:30	02/13/16 03:49	91-57-6	B
Naphthalene	<0.0041	ug/L	0.045	0.0041	1	02/04/16 11:30	02/13/16 03:49	91-20-3	
Phenanthrene	0.041J	ug/L	0.045	0.0070	1	02/04/16 11:30	02/13/16 03:49	85-01-8	B
Pyrene	0.022J	ug/L	0.045	0.0070	1	02/04/16 11:30	02/13/16 03:49	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	59	%	25-130		1	02/04/16 11:30	02/13/16 03:49	321-60-8	
Terphenyl-d14 (S)	65	%	13-158		1	02/04/16 11:30	02/13/16 03:49	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/04/16 17:48	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/04/16 17:48	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/04/16 17:48	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/04/16 17:48	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/04/16 17:48	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/04/16 17:48	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/04/16 17:48	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/04/16 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/04/16 17:48	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/04/16 17:48	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/04/16 17:48	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-1 **Lab ID: 40127797001** Collected: 01/28/16 10:50 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/04/16 17:48	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/16 17:48	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		02/04/16 17:48	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/04/16 17:48	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/16 17:48	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/16 17:48	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/04/16 17:48	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/04/16 17:48	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/04/16 17:48	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/04/16 17:48	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/04/16 17:48	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/04/16 17:48	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/04/16 17:48	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		02/04/16 17:48	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/04/16 17:48	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/04/16 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/04/16 17:48	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/04/16 17:48	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/04/16 17:48	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/04/16 17:48	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/04/16 17:48	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/04/16 17:48	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/04/16 17:48	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/04/16 17:48	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/04/16 17:48	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		02/04/16 17:48	460-00-4	pH
Dibromofluoromethane (S)	110	%	70-130		1		02/04/16 17:48	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		02/04/16 17:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-2 **Lab ID: 40127797002** Collected: 01/28/16 11:10 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI									
Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.066	ug/L	0.045	0.0045	1	02/04/16 11:30	02/09/16 20:34	83-32-9	
Acenaphthylene	0.014J	ug/L	0.045	0.0045	1	02/04/16 11:30	02/09/16 20:34	208-96-8	
Anthracene	0.021J	ug/L	0.045	0.0036	1	02/04/16 11:30	02/09/16 20:34	120-12-7	
Benzo(a)anthracene	0.0073J	ug/L	0.045	0.0046	1	02/04/16 11:30	02/09/16 20:34	56-55-3	
Benzo(a)pyrene	<0.0040	ug/L	0.045	0.0040	1	02/04/16 11:30	02/09/16 20:34	50-32-8	
Benzo(b)fluoranthene	<0.0048	ug/L	0.045	0.0048	1	02/04/16 11:30	02/09/16 20:34	205-99-2	
Benzo(g,h,i)perylene	<0.0032	ug/L	0.045	0.0032	1	02/04/16 11:30	02/09/16 20:34	191-24-2	
Benzo(k)fluoranthene	<0.0051	ug/L	0.045	0.0051	1	02/04/16 11:30	02/09/16 20:34	207-08-9	
Chrysene	<0.0038	ug/L	0.045	0.0038	1	02/04/16 11:30	02/09/16 20:34	218-01-9	
Dibenz(a,h)anthracene	<0.0050	ug/L	0.045	0.0050	1	02/04/16 11:30	02/09/16 20:34	53-70-3	
Fluoranthene	<0.0085	ug/L	0.045	0.0085	1	02/04/16 11:30	02/09/16 20:34	206-44-0	
Fluorene	0.054	ug/L	0.045	0.0036	1	02/04/16 11:30	02/09/16 20:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0032	ug/L	0.045	0.0032	1	02/04/16 11:30	02/09/16 20:34	193-39-5	
1-Methylnaphthalene	0.95	ug/L	0.045	0.0028	1	02/04/16 11:30	02/09/16 20:34	90-12-0	
2-Methylnaphthalene	0.36	ug/L	0.045	0.0025	1	02/04/16 11:30	02/09/16 20:34	91-57-6	
Naphthalene	1.9	ug/L	0.045	0.0041	1	02/04/16 11:30	02/09/16 20:34	91-20-3	
Phenanthrene	0.049	ug/L	0.045	0.0069	1	02/04/16 11:30	02/09/16 20:34	85-01-8	B
Pyrene	<0.0069	ug/L	0.045	0.0069	1	02/04/16 11:30	02/09/16 20:34	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%	25-130		1	02/04/16 11:30	02/09/16 20:34	321-60-8	
Terphenyl-d14 (S)	82	%	13-158		1	02/04/16 11:30	02/09/16 20:34	1718-51-0	
8260 MSV									
Analytical Method: EPA 8260									
Benzene	432	ug/L	2.0	1.0	2		02/04/16 21:33	71-43-2	
Bromobenzene	<0.46	ug/L	2.0	0.46	2		02/04/16 21:33	108-86-1	
Bromochloromethane	<0.68	ug/L	2.0	0.68	2		02/04/16 21:33	74-97-5	
Bromodichloromethane	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	75-27-4	
Bromoform	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	75-25-2	
Bromomethane	<4.9	ug/L	10.0	4.9	2		02/04/16 21:33	74-83-9	
n-Butylbenzene	1.1J	ug/L	2.0	1.0	2		02/04/16 21:33	104-51-8	
sec-Butylbenzene	<4.4	ug/L	10.0	4.4	2		02/04/16 21:33	135-98-8	
tert-Butylbenzene	<0.36	ug/L	2.0	0.36	2		02/04/16 21:33	98-06-6	
Carbon tetrachloride	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	56-23-5	
Chlorobenzene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	108-90-7	
Chloroethane	2.4	ug/L	2.0	0.75	2		02/04/16 21:33	75-00-3	
Chloroform	<5.0	ug/L	10.0	5.0	2		02/04/16 21:33	67-66-3	
Chloromethane	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	74-87-3	
2-Chlorotoluene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	95-49-8	
4-Chlorotoluene	<0.43	ug/L	2.0	0.43	2		02/04/16 21:33	106-43-4	
1,2-Dibromo-3-chloropropane	<4.3	ug/L	10.0	4.3	2		02/04/16 21:33	96-12-8	
Dibromochloromethane	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.36	ug/L	2.0	0.36	2		02/04/16 21:33	106-93-4	
Dibromomethane	<0.85	ug/L	2.0	0.85	2		02/04/16 21:33	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-2 **Lab ID: 40127797002** Collected: 01/28/16 11:10 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.45	ug/L	2.0	0.45	2		02/04/16 21:33	75-71-8	
1,1-Dichloroethane	<0.48	ug/L	2.0	0.48	2		02/04/16 21:33	75-34-3	
1,2-Dichloroethane	<0.34	ug/L	2.0	0.34	2		02/04/16 21:33	107-06-2	
1,1-Dichloroethene	<0.82	ug/L	2.0	0.82	2		02/04/16 21:33	75-35-4	
cis-1,2-Dichloroethene	<0.51	ug/L	2.0	0.51	2		02/04/16 21:33	156-59-2	
trans-1,2-Dichloroethene	<0.51	ug/L	2.0	0.51	2		02/04/16 21:33	156-60-5	
1,2-Dichloropropane	<0.47	ug/L	2.0	0.47	2		02/04/16 21:33	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	142-28-9	
2,2-Dichloropropane	<0.97	ug/L	2.0	0.97	2		02/04/16 21:33	594-20-7	
1,1-Dichloropropene	<0.88	ug/L	2.0	0.88	2		02/04/16 21:33	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	10061-01-5	
trans-1,3-Dichloropropene	<0.46	ug/L	2.0	0.46	2		02/04/16 21:33	10061-02-6	
Diisopropyl ether	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	108-20-3	
Ethylbenzene	139	ug/L	2.0	1.0	2		02/04/16 21:33	100-41-4	
Hexachloro-1,3-butadiene	<4.2	ug/L	10.0	4.2	2		02/04/16 21:33	87-68-3	
Isopropylbenzene (Cumene)	1.4J	ug/L	2.0	0.29	2		02/04/16 21:33	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	99-87-6	
Methylene Chloride	<0.47	ug/L	2.0	0.47	2		02/04/16 21:33	75-09-2	
Methyl-tert-butyl ether	1.4J	ug/L	2.0	0.35	2		02/04/16 21:33	1634-04-4	
Naphthalene	14.8	ug/L	10.0	5.0	2		02/04/16 21:33	91-20-3	
n-Propylbenzene	10.3	ug/L	2.0	1.0	2		02/04/16 21:33	103-65-1	
Styrene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.36	ug/L	2.0	0.36	2		02/04/16 21:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.50	ug/L	2.0	0.50	2		02/04/16 21:33	79-34-5	
Tetrachloroethene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	127-18-4	
Toluene	5.0	ug/L	2.0	1.0	2		02/04/16 21:33	108-88-3	
1,2,3-Trichlorobenzene	<4.3	ug/L	10.0	4.3	2		02/04/16 21:33	87-61-6	
1,2,4-Trichlorobenzene	<4.4	ug/L	10.0	4.4	2		02/04/16 21:33	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	2.0	0.39	2		02/04/16 21:33	79-00-5	
Trichloroethene	<0.66	ug/L	2.0	0.66	2		02/04/16 21:33	79-01-6	
Trichlorofluoromethane	<0.37	ug/L	2.0	0.37	2		02/04/16 21:33	75-69-4	
1,2,3-Trichloropropane	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	96-18-4	
1,2,4-Trimethylbenzene	15.3	ug/L	2.0	1.0	2		02/04/16 21:33	95-63-6	
1,3,5-Trimethylbenzene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	108-67-8	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		02/04/16 21:33	75-01-4	
m&p-Xylene	54.7	ug/L	4.0	2.0	2		02/04/16 21:33	179601-23-1	
o-Xylene	<1.0	ug/L	2.0	1.0	2		02/04/16 21:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		2		02/04/16 21:33	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		2		02/04/16 21:33	1868-53-7	
Toluene-d8 (S)	88	%	70-130		2		02/04/16 21:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-4 **Lab ID: 40127797003** Collected: 01/28/16 11:45 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	<0.0046	ug/L	0.047	0.0046	1	02/04/16 11:30	02/13/16 04:05	83-32-9	
Acenaphthylene	<0.0046	ug/L	0.047	0.0046	1	02/04/16 11:30	02/13/16 04:05	208-96-8	
Anthracene	0.0062J	ug/L	0.047	0.0038	1	02/04/16 11:30	02/13/16 04:05	120-12-7	
Benzo(a)anthracene	<0.0048	ug/L	0.047	0.0048	1	02/04/16 11:30	02/13/16 04:05	56-55-3	
Benzo(a)pyrene	<0.0041	ug/L	0.047	0.0041	1	02/04/16 11:30	02/13/16 04:05	50-32-8	
Benzo(b)fluoranthene	<0.0050	ug/L	0.047	0.0050	1	02/04/16 11:30	02/13/16 04:05	205-99-2	
Benzo(g,h,i)perylene	0.0035J	ug/L	0.047	0.0033	1	02/04/16 11:30	02/13/16 04:05	191-24-2	
Benzo(k)fluoranthene	<0.0053	ug/L	0.047	0.0053	1	02/04/16 11:30	02/13/16 04:05	207-08-9	
Chrysene	0.021J	ug/L	0.047	0.0040	1	02/04/16 11:30	02/13/16 04:05	218-01-9	B
Dibenz(a,h)anthracene	<0.0052	ug/L	0.047	0.0052	1	02/04/16 11:30	02/13/16 04:05	53-70-3	
Fluoranthene	<0.0088	ug/L	0.047	0.0088	1	02/04/16 11:30	02/13/16 04:05	206-44-0	
Fluorene	<0.0038	ug/L	0.047	0.0038	1	02/04/16 11:30	02/13/16 04:05	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.047	0.0033	1	02/04/16 11:30	02/13/16 04:05	193-39-5	
1-Methylnaphthalene	0.0088J	ug/L	0.047	0.0029	1	02/04/16 11:30	02/13/16 04:05	90-12-0	B
2-Methylnaphthalene	0.0074J	ug/L	0.047	0.0026	1	02/04/16 11:30	02/13/16 04:05	91-57-6	B
Naphthalene	0.0058J	ug/L	0.047	0.0042	1	02/04/16 11:30	02/13/16 04:05	91-20-3	B
Phenanthrene	0.017J	ug/L	0.047	0.0072	1	02/04/16 11:30	02/13/16 04:05	85-01-8	B
Pyrene	0.011J	ug/L	0.047	0.0072	1	02/04/16 11:30	02/13/16 04:05	129-00-0	B
Surrogates									
2-Fluorobiphenyl (S)	47	%	25-130		1	02/04/16 11:30	02/13/16 04:05	321-60-8	
Terphenyl-d14 (S)	46	%	13-158		1	02/04/16 11:30	02/13/16 04:05	1718-51-0	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/04/16 18:10	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/04/16 18:10	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/04/16 18:10	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/04/16 18:10	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/04/16 18:10	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/04/16 18:10	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/04/16 18:10	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/04/16 18:10	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/04/16 18:10	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/04/16 18:10	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/04/16 18:10	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-4 **Lab ID: 40127797003** Collected: 01/28/16 11:45 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/04/16 18:10	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/16 18:10	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		02/04/16 18:10	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/04/16 18:10	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/16 18:10	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/16 18:10	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/04/16 18:10	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/04/16 18:10	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/04/16 18:10	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/04/16 18:10	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	108-20-3	
Ethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/04/16 18:10	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/04/16 18:10	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/04/16 18:10	75-09-2	
Methyl-tert-butyl ether	0.36J	ug/L	1.0	0.17	1		02/04/16 18:10	1634-04-4	
Naphthalene	<2.5	ug/L	5.0	2.5	1		02/04/16 18:10	91-20-3	
n-Propylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/04/16 18:10	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/04/16 18:10	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/04/16 18:10	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/04/16 18:10	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/04/16 18:10	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/04/16 18:10	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/04/16 18:10	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	96-18-4	
1,2,4-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/04/16 18:10	75-01-4	
m&p-Xylene	<1.0	ug/L	2.0	1.0	1		02/04/16 18:10	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		02/04/16 18:10	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		02/04/16 18:10	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		02/04/16 18:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Sample: MW-3 **Lab ID: 40127797004** Collected: 01/28/16 11:30 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510									
Acenaphthene	0.10	ug/L	0.045	0.0045	1	02/04/16 11:30	02/13/16 04:22	83-32-9	
Acenaphthylene	0.014J	ug/L	0.045	0.0045	1	02/04/16 11:30	02/13/16 04:22	208-96-8	
Anthracene	0.0048J	ug/L	0.045	0.0037	1	02/04/16 11:30	02/13/16 04:22	120-12-7	
Benzo(a)anthracene	<0.0047	ug/L	0.045	0.0047	1	02/04/16 11:30	02/13/16 04:22	56-55-3	
Benzo(a)pyrene	<0.0040	ug/L	0.045	0.0040	1	02/04/16 11:30	02/13/16 04:22	50-32-8	
Benzo(b)fluoranthene	<0.0048	ug/L	0.045	0.0048	1	02/04/16 11:30	02/13/16 04:22	205-99-2	
Benzo(g,h,i)perylene	<0.0032	ug/L	0.045	0.0032	1	02/04/16 11:30	02/13/16 04:22	191-24-2	
Benzo(k)fluoranthene	<0.0051	ug/L	0.045	0.0051	1	02/04/16 11:30	02/13/16 04:22	207-08-9	
Chrysene	<0.0039	ug/L	0.045	0.0039	1	02/04/16 11:30	02/13/16 04:22	218-01-9	
Dibenz(a,h)anthracene	<0.0051	ug/L	0.045	0.0051	1	02/04/16 11:30	02/13/16 04:22	53-70-3	
Fluoranthene	<0.0085	ug/L	0.045	0.0085	1	02/04/16 11:30	02/13/16 04:22	206-44-0	
Fluorene	0.078	ug/L	0.045	0.0037	1	02/04/16 11:30	02/13/16 04:22	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0033	ug/L	0.045	0.0033	1	02/04/16 11:30	02/13/16 04:22	193-39-5	
1-Methylnaphthalene	0.76	ug/L	0.045	0.0028	1	02/04/16 11:30	02/13/16 04:22	90-12-0	
2-Methylnaphthalene	0.076	ug/L	0.045	0.0025	1	02/04/16 11:30	02/13/16 04:22	91-57-6	
Naphthalene	0.17	ug/L	0.045	0.0041	1	02/04/16 11:30	02/13/16 04:22	91-20-3	B
Phenanthrene	0.029J	ug/L	0.045	0.0070	1	02/04/16 11:30	02/13/16 04:22	85-01-8	B
Pyrene	<0.0070	ug/L	0.045	0.0070	1	02/04/16 11:30	02/13/16 04:22	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	47	%	25-130		1	02/04/16 11:30	02/13/16 04:22	321-60-8	
Terphenyl-d14 (S)	80	%	13-158		1	02/04/16 11:30	02/13/16 04:22	1718-51-0	
8260 MSV Analytical Method: EPA 8260									
Benzene	1.2	ug/L	1.0	0.50	1		02/04/16 18:33	71-43-2	
Bromobenzene	<0.23	ug/L	1.0	0.23	1		02/04/16 18:33	108-86-1	
Bromochloromethane	<0.34	ug/L	1.0	0.34	1		02/04/16 18:33	74-97-5	
Bromodichloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	75-27-4	
Bromoform	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	75-25-2	
Bromomethane	<2.4	ug/L	5.0	2.4	1		02/04/16 18:33	74-83-9	
n-Butylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	104-51-8	
sec-Butylbenzene	<2.2	ug/L	5.0	2.2	1		02/04/16 18:33	135-98-8	
tert-Butylbenzene	<0.18	ug/L	1.0	0.18	1		02/04/16 18:33	98-06-6	
Carbon tetrachloride	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	56-23-5	
Chlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	108-90-7	
Chloroethane	<0.37	ug/L	1.0	0.37	1		02/04/16 18:33	75-00-3	
Chloroform	<2.5	ug/L	5.0	2.5	1		02/04/16 18:33	67-66-3	
Chloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	74-87-3	
2-Chlorotoluene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	95-49-8	
4-Chlorotoluene	<0.21	ug/L	1.0	0.21	1		02/04/16 18:33	106-43-4	
1,2-Dibromo-3-chloropropane	<2.2	ug/L	5.0	2.2	1		02/04/16 18:33	96-12-8	
Dibromochloromethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	124-48-1	
1,2-Dibromoethane (EDB)	<0.18	ug/L	1.0	0.18	1		02/04/16 18:33	106-93-4	
Dibromomethane	<0.43	ug/L	1.0	0.43	1		02/04/16 18:33	74-95-3	
1,2-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	95-50-1	
1,3-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	541-73-1	
1,4-Dichlorobenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	106-46-7	

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Project No.: 40127797

Sample: MW-3 Lab ID: 40127797004 Collected: 01/28/16 11:30 Received: 02/03/16 07:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Dichlorodifluoromethane	<0.22	ug/L	1.0	0.22	1		02/04/16 18:33	75-71-8	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		02/04/16 18:33	75-34-3	
1,2-Dichloroethane	<0.17	ug/L	1.0	0.17	1		02/04/16 18:33	107-06-2	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		02/04/16 18:33	75-35-4	
cis-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/16 18:33	156-59-2	
trans-1,2-Dichloroethene	<0.26	ug/L	1.0	0.26	1		02/04/16 18:33	156-60-5	
1,2-Dichloropropane	<0.23	ug/L	1.0	0.23	1		02/04/16 18:33	78-87-5	
1,3-Dichloropropane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	142-28-9	
2,2-Dichloropropane	<0.48	ug/L	1.0	0.48	1		02/04/16 18:33	594-20-7	
1,1-Dichloropropene	<0.44	ug/L	1.0	0.44	1		02/04/16 18:33	563-58-6	
cis-1,3-Dichloropropene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	10061-01-5	
trans-1,3-Dichloropropene	<0.23	ug/L	1.0	0.23	1		02/04/16 18:33	10061-02-6	
Diisopropyl ether	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	108-20-3	
Ethylbenzene	2.1	ug/L	1.0	0.50	1		02/04/16 18:33	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/L	5.0	2.1	1		02/04/16 18:33	87-68-3	
Isopropylbenzene (Cumene)	<0.14	ug/L	1.0	0.14	1		02/04/16 18:33	98-82-8	
p-Isopropyltoluene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	99-87-6	
Methylene Chloride	<0.23	ug/L	1.0	0.23	1		02/04/16 18:33	75-09-2	
Methyl-tert-butyl ether	<0.17	ug/L	1.0	0.17	1		02/04/16 18:33	1634-04-4	
Naphthalene	5.9	ug/L	5.0	2.5	1		02/04/16 18:33	91-20-3	
n-Propylbenzene	1.3	ug/L	1.0	0.50	1		02/04/16 18:33	103-65-1	
Styrene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	100-42-5	
1,1,1,2-Tetrachloroethane	<0.18	ug/L	1.0	0.18	1		02/04/16 18:33	630-20-6	
1,1,2,2-Tetrachloroethane	<0.25	ug/L	1.0	0.25	1		02/04/16 18:33	79-34-5	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	127-18-4	
Toluene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/L	5.0	2.1	1		02/04/16 18:33	87-61-6	
1,2,4-Trichlorobenzene	<2.2	ug/L	5.0	2.2	1		02/04/16 18:33	120-82-1	
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	71-55-6	
1,1,2-Trichloroethane	<0.20	ug/L	1.0	0.20	1		02/04/16 18:33	79-00-5	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		02/04/16 18:33	79-01-6	
Trichlorofluoromethane	<0.18	ug/L	1.0	0.18	1		02/04/16 18:33	75-69-4	
1,2,3-Trichloropropane	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	96-18-4	
1,2,4-Trimethylbenzene	0.84J	ug/L	1.0	0.50	1		02/04/16 18:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		02/04/16 18:33	75-01-4	
m&p-Xylene	1.0J	ug/L	2.0	1.0	1		02/04/16 18:33	179601-23-1	
o-Xylene	<0.50	ug/L	1.0	0.50	1		02/04/16 18:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		02/04/16 18:33	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		02/04/16 18:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		02/04/16 18:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

QC Batch: MSV/32123 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40127797001, 40127797002, 40127797003, 40127797004

METHOD BLANK: 1291385 Matrix: Water
Associated Lab Samples: 40127797001, 40127797002, 40127797003, 40127797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	02/04/16 12:08	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	02/04/16 12:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	02/04/16 12:08	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	02/04/16 12:08	
1,1-Dichloroethane	ug/L	<0.24	1.0	02/04/16 12:08	
1,1-Dichloroethene	ug/L	<0.41	1.0	02/04/16 12:08	
1,1-Dichloropropene	ug/L	<0.44	1.0	02/04/16 12:08	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	02/04/16 12:08	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	02/04/16 12:08	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	02/04/16 12:08	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	02/04/16 12:08	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	02/04/16 12:08	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	02/04/16 12:08	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	02/04/16 12:08	
1,2-Dichloroethane	ug/L	<0.17	1.0	02/04/16 12:08	
1,2-Dichloropropane	ug/L	<0.23	1.0	02/04/16 12:08	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	02/04/16 12:08	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	02/04/16 12:08	
1,3-Dichloropropane	ug/L	<0.50	1.0	02/04/16 12:08	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	02/04/16 12:08	
2,2-Dichloropropane	ug/L	<0.48	1.0	02/04/16 12:08	
2-Chlorotoluene	ug/L	<0.50	1.0	02/04/16 12:08	
4-Chlorotoluene	ug/L	<0.21	1.0	02/04/16 12:08	
Benzene	ug/L	<0.50	1.0	02/04/16 12:08	
Bromobenzene	ug/L	<0.23	1.0	02/04/16 12:08	
Bromochloromethane	ug/L	<0.34	1.0	02/04/16 12:08	
Bromodichloromethane	ug/L	<0.50	1.0	02/04/16 12:08	
Bromoform	ug/L	<0.50	1.0	02/04/16 12:08	
Bromomethane	ug/L	<2.4	5.0	02/04/16 12:08	
Carbon tetrachloride	ug/L	<0.50	1.0	02/04/16 12:08	
Chlorobenzene	ug/L	<0.50	1.0	02/04/16 12:08	
Chloroethane	ug/L	<0.37	1.0	02/04/16 12:08	
Chloroform	ug/L	<2.5	5.0	02/04/16 12:08	
Chloromethane	ug/L	<0.50	1.0	02/04/16 12:08	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	02/04/16 12:08	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	02/04/16 12:08	
Dibromochloromethane	ug/L	<0.50	1.0	02/04/16 12:08	
Dibromomethane	ug/L	<0.43	1.0	02/04/16 12:08	
Dichlorodifluoromethane	ug/L	<0.22	1.0	02/04/16 12:08	
Diisopropyl ether	ug/L	<0.50	1.0	02/04/16 12:08	
Ethylbenzene	ug/L	<0.50	1.0	02/04/16 12:08	

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

METHOD BLANK: 1291385

Matrix: Water

Associated Lab Samples: 40127797001, 40127797002, 40127797003, 40127797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	02/04/16 12:08	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	02/04/16 12:08	
m&p-Xylene	ug/L	<1.0	2.0	02/04/16 12:08	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	02/04/16 12:08	
Methylene Chloride	ug/L	<0.23	1.0	02/04/16 12:08	
n-Butylbenzene	ug/L	<0.50	1.0	02/04/16 12:08	
n-Propylbenzene	ug/L	<0.50	1.0	02/04/16 12:08	
Naphthalene	ug/L	<2.5	5.0	02/04/16 12:08	
o-Xylene	ug/L	<0.50	1.0	02/04/16 12:08	
p-Isopropyltoluene	ug/L	<0.50	1.0	02/04/16 12:08	
sec-Butylbenzene	ug/L	<2.2	5.0	02/04/16 12:08	
Styrene	ug/L	<0.50	1.0	02/04/16 12:08	
tert-Butylbenzene	ug/L	<0.18	1.0	02/04/16 12:08	
Tetrachloroethene	ug/L	<0.50	1.0	02/04/16 12:08	
Toluene	ug/L	<0.50	1.0	02/04/16 12:08	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	02/04/16 12:08	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	02/04/16 12:08	
Trichloroethene	ug/L	<0.33	1.0	02/04/16 12:08	
Trichlorofluoromethane	ug/L	<0.18	1.0	02/04/16 12:08	
Vinyl chloride	ug/L	<0.18	1.0	02/04/16 12:08	
4-Bromofluorobenzene (S)	%	100	70-130	02/04/16 12:08	
Dibromofluoromethane (S)	%	110	70-130	02/04/16 12:08	
Toluene-d8 (S)	%	100	70-130	02/04/16 12:08	

LABORATORY CONTROL SAMPLE: 1291386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.9	110	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	46.9	94	70-130	
1,1,2-Trichloroethane	ug/L	50	47.4	95	70-130	
1,1-Dichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethene	ug/L	50	47.4	95	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.8	90	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.7	91	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	46.9	94	70-130	
1,2-Dichlorobenzene	ug/L	50	48.1	96	70-130	
1,2-Dichloroethane	ug/L	50	56.7	113	70-131	
1,2-Dichloropropane	ug/L	50	49.3	99	70-130	
1,3-Dichlorobenzene	ug/L	50	48.3	97	70-130	
1,4-Dichlorobenzene	ug/L	50	48.9	98	70-130	
Benzene	ug/L	50	45.0	90	70-130	
Bromodichloromethane	ug/L	50	50.5	101	70-130	
Bromoform	ug/L	50	44.5	89	68-130	
Bromomethane	ug/L	50	33.9	68	38-137	

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

LABORATORY CONTROL SAMPLE: 1291386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	56.6	113	70-130	
Chlorobenzene	ug/L	50	48.3	97	70-130	
Chloroethane	ug/L	50	39.9	80	70-136	
Chloroform	ug/L	50	52.1	104	70-130	
Chloromethane	ug/L	50	44.7	89	48-144	
cis-1,2-Dichloroethene	ug/L	50	44.6	89	70-130	
cis-1,3-Dichloropropene	ug/L	50	45.6	91	70-130	
Dibromochloromethane	ug/L	50	48.6	97	70-130	
Dichlorodifluoromethane	ug/L	50	30.4	61	33-157	
Ethylbenzene	ug/L	50	46.4	93	70-132	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	70-130	
m&p-Xylene	ug/L	100	91.9	92	70-131	
Methyl-tert-butyl ether	ug/L	50	45.1	90	48-141	
Methylene Chloride	ug/L	50	46.0	92	70-130	
o-Xylene	ug/L	50	43.0	86	70-131	
Styrene	ug/L	50	44.7	89	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	47.0	94	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.6	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.0	94	70-130	
Trichloroethene	ug/L	50	49.2	98	70-130	
Trichlorofluoromethane	ug/L	50	52.2	104	50-150	
Vinyl chloride	ug/L	50	44.2	88	65-142	
4-Bromofluorobenzene (S)	%			95	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1291576 1291577

Parameter	Units	40127834012		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<1.0	50	50	53.2	54.2	106	108	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	51.2	48.0	102	96	70-130	7	20		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	50.3	50.3	101	101	70-130	0	20		
1,1-Dichloroethane	ug/L	<1.0	50	50	48.9	51.4	98	103	70-134	5	20		
1,1-Dichloroethene	ug/L	<1.0	50	50	44.4	44.5	89	89	70-139	0	20		
1,2,4-Trichlorobenzene	ug/L	<5.0	50	50	44.7	44.8	89	90	70-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	<5.0	50	50	48.3	49.2	97	98	50-150	2	20		
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	48.8	47.5	98	95	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	49.2	49.3	98	99	70-130	0	20		
1,2-Dichloroethane	ug/L	<1.0	50	50	57.2	58.4	114	117	70-132	2	20		
1,2-Dichloropropane	ug/L	<1.0	50	50	48.8	49.9	98	100	70-130	2	20		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	48.1	49.1	96	98	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<1.0	50	50	49.3	50.2	99	100	70-130	2	20		

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Parameter	Units	40127834012		1291576		1291577		% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Benzene	ug/L	<1.0	50	50	46.1	46.4	92	93	70-130	1	20		
Bromodichloromethane	ug/L	<1.0	50	50	50.7	51.0	101	102	70-132	1	20		
Bromoform	ug/L	<1.0	50	50	46.8	42.4	94	85	68-130	10	20		
Bromomethane	ug/L	<5.0	50	50	35.5	37.9	71	76	38-141	7	20		
Carbon tetrachloride	ug/L	<1.0	50	50	55.8	56.5	112	113	70-130	1	20		
Chlorobenzene	ug/L	<1.0	50	50	49.8	51.4	100	103	70-130	3	20		
Chloroethane	ug/L	<1.0	50	50	40.3	39.2	81	78	66-152	3	20		
Chloroform	ug/L	<5.0	50	50	52.2	53.5	104	107	70-130	2	20		
Chloromethane	ug/L	<1.0	50	50	42.2	38.6	84	77	44-151	9	20		
cis-1,2-Dichloroethene	ug/L	8.0	50	50	51.8	49.1	88	82	70-130	5	20		
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.0	39.3	92	79	70-130	16	20		
Dibromochloromethane	ug/L	<1.0	50	50	50.6	48.7	101	97	70-130	4	20		
Dichlorodifluoromethane	ug/L	<1.0	50	50	28.6	29.1	57	58	29-160	2	20		
Ethylbenzene	ug/L	<1.0	50	50	45.2	47.2	90	94	70-132	4	20		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	49.2	53.7	98	107	70-130	9	20		
m&p-Xylene	ug/L	<2.0	100	100	77.9	80.6	78	81	70-131	3	20		
Methyl-tert-butyl ether	ug/L	<1.0	50	50	47.0	47.2	94	94	48-143	0	20		
Methylene Chloride	ug/L	<1.0	50	50	42.4	47.4	85	95	70-130	11	20		
o-Xylene	ug/L	<1.0	50	50	37.7	38.9	75	78	70-131	3	20		
Styrene	ug/L	<1.0	50	50	23.9	21.7	48	43	70-130	10	20	M1	
Tetrachloroethene	ug/L	<1.0	50	50	51.2	52.1	102	104	70-130	2	20		
Toluene	ug/L	<1.0	50	50	46.0	45.5	92	91	70-130	1	20		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	46.4	47.7	93	95	70-132	3	20		
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	49.4	40.7	99	81	70-130	19	20		
Trichloroethene	ug/L	<1.0	50	50	50.3	52.1	101	104	70-130	3	20		
Trichlorofluoromethane	ug/L	<1.0	50	50	53.9	53.3	108	107	50-153	1	20		
Vinyl chloride	ug/L	<1.0	50	50	45.8	45.7	90	90	60-155	0	20		
4-Bromofluorobenzene (S)	%						96	100	70-130				
Dibromofluoromethane (S)	%						106	106	70-130				
Toluene-d8 (S)	%						101	96	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL
Pace Project No.: 40127797

QC Batch: OEXT/29595 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40127797001, 40127797002, 40127797003, 40127797004

METHOD BLANK: 1291296 Matrix: Water
Associated Lab Samples: 40127797001, 40127797002, 40127797003, 40127797004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.0076J	0.050	02/05/16 09:51	
2-Methylnaphthalene	ug/L	0.0031J	0.050	02/05/16 09:51	
Acenaphthene	ug/L	0.0054J	0.050	02/05/16 09:51	
Acenaphthylene	ug/L	<0.0049	0.050	02/05/16 09:51	
Anthracene	ug/L	<0.0040	0.050	02/05/16 09:51	
Benzo(a)anthracene	ug/L	<0.0051	0.050	02/05/16 09:51	
Benzo(a)pyrene	ug/L	<0.0044	0.050	02/05/16 09:51	
Benzo(b)fluoranthene	ug/L	<0.0053	0.050	02/05/16 09:51	
Benzo(g,h,i)perylene	ug/L	<0.0035	0.050	02/05/16 09:51	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	02/05/16 09:51	
Chrysene	ug/L	0.0051J	0.050	02/05/16 09:51	
Dibenz(a,h)anthracene	ug/L	<0.0056	0.050	02/05/16 09:51	
Fluoranthene	ug/L	<0.0094	0.050	02/05/16 09:51	
Fluorene	ug/L	<0.0040	0.050	02/05/16 09:51	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0036	0.050	02/05/16 09:51	
Naphthalene	ug/L	0.029J	0.050	02/05/16 09:51	
Phenanthrene	ug/L	0.018J	0.050	02/05/16 09:51	
Pyrene	ug/L	0.0079J	0.050	02/05/16 09:51	
2-Fluorobiphenyl (S)	%	68	40-130	02/05/16 09:51	
Terphenyl-d14 (S)	%	102	26-135	02/05/16 09:51	

LABORATORY CONTROL SAMPLE & LCSD: 1291297 1291298

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.6	1.3	82	67	46-130	20	31	
2-Methylnaphthalene	ug/L	2	1.7	1.4	83	68	47-130	20	32	
Acenaphthene	ug/L	2	1.8	1.4	89	72	49-130	22	28	
Acenaphthylene	ug/L	2	1.6	1.3	81	66	44-130	21	29	
Anthracene	ug/L	2	1.8	1.5	91	76	53-130	18	24	
Benzo(a)anthracene	ug/L	2	1.6	1.5	80	75	49-130	6	20	
Benzo(a)pyrene	ug/L	2	2.1	2.0	106	100	47-130	5	20	
Benzo(b)fluoranthene	ug/L	2	2.3	2.2	113	108	54-133	5	20	
Benzo(g,h,i)perylene	ug/L	2	2.2	2.1	109	105	33-132	4	20	
Benzo(k)fluoranthene	ug/L	2	2.6	2.5	128	125	59-143	2	20	
Chrysene	ug/L	2	2.5	2.5	126	123	70-157	2	20	
Dibenz(a,h)anthracene	ug/L	2	1.9	1.8	95	90	24-130	5	20	
Fluoranthene	ug/L	2	2.0	1.9	101	93	59-130	8	20	
Fluorene	ug/L	2	1.9	1.5	93	75	49-130	22	27	
Indeno(1,2,3-cd)pyrene	ug/L	2	2.0	2.0	102	98	52-130	4	20	
Naphthalene	ug/L	2	1.5	1.3	75	66	45-130	13	29	

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 1291297		1291298			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Phenanthrene	ug/L	2	2.0	1.7	102	86	60-130	17	22	
Pyrene	ug/L	2	2.1	1.9	107	97	64-147	10	20	
2-Fluorobiphenyl (S)	%				79	69	40-130			
Terphenyl-d14 (S)	%				101	97	26-135			

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QUALIFIERS

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSSV/8732

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10692.00 FREI OIL

Pace Project No.: 40127797

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40127797001	MW-1	EPA 3510	OEXT/29595	EPA 8270 by HVI	MSSV/8732
40127797002	MW-2	EPA 3510	OEXT/29595	EPA 8270 by HVI	MSSV/8732
40127797003	MW-4	EPA 3510	OEXT/29595	EPA 8270 by HVI	MSSV/8732
40127797004	MW-3	EPA 3510	OEXT/29595	EPA 8270 by HVI	MSSV/8732
40127797001	MW-1	EPA 8260	MSV/32123		
40127797002	MW-2	EPA 8260	MSV/32123		
40127797003	MW-4	EPA 8260	MSV/32123		
40127797004	MW-3	EPA 8260	MSV/32123		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Segmore Environmental
 Branch/Location: Methuen
 Project Contact: Roslyn Segmore
 Phone: 608-838-9120
 Project Number: 10692.00
 Project Name: Fire, D,1
 Project State: VT
 Sampled By (Print): MARILYN Segmore
 Sampled By (Sign): Maria R Segmore
 PO #: _____
 Regulatory Program: _____



www.faceanalytical.com

CHAIN OF CUSTODY

Filtered? (YES/NO) _____
 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

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

40127797

Y/N	PKT LETTER	ANALYSES REQUESTED
N	A	PAH
N	B	VOC

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX	Matrix Codes		DATE	TIME	MATRIX
					MS/MSD	Matrix Codes			
001	MW-1	1/28/14	10:50	GW	<input type="checkbox"/> EPA Level III	<input type="checkbox"/> On your sample (billable)			
002	MW-2	1/1/10	6:00	GW	<input type="checkbox"/> EPA Level IV	<input type="checkbox"/> NOT needed on your sample			
003	MW-4	1/1/11	11:45	GW					
004	MW-3	1/1/11	11:30	GW					

Quote #: _____
 Mail To Contact: Roslyn Segmore
 Mail To Company: Segmore Environmental
 Mail To Address: 2831 DYNESON RD METHUEN, VT 05858
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): 3-40ml, B 2-100ml, A
 Profile #: _____

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: <u>Maria R Segmore</u>	Date/Time: <u>2/2/14 pm</u>	Received By: <u>Roslyn Segmore</u>	Date/Time: <u>2/3/14 07:45</u>
Relinquished By: <u>Dunham</u>	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40127797
 Receipt Temp = R01 °C
 Sample Receipt pH _____
 OK / Adjusted _____
 Cooler Custody Seal Present / Not Present _____
 Intact / Not Intact _____

August 16, 2016

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558


RE: Project: 10692.00 FREI OIL
Pace Project No.: 40136646

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on August 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

Virginia VELAP ID: 460263

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Virginia VELAP Certification ID: 460263

Virginia VELAP ID: 460263

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40136646001	MW-1	Water	08/10/16 14:35	08/12/16 07:30
40136646002	MW-4	Water	08/10/16 14:55	08/12/16 07:30
40136646003	MW-3	Water	08/10/16 15:10	08/12/16 07:30
40136646004	MW-2	Water	08/10/16 15:20	08/12/16 07:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40136646001	MW-1	WI MOD GRO	PMS	10	PASI-G
40136646002	MW-4	WI MOD GRO	PMS	10	PASI-G
40136646003	MW-3	WI MOD GRO	PMS	10	PASI-G
40136646004	MW-2	WI MOD GRO	PMS	10	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40136646002	MW-4					
WI MOD GRO	Methyl-tert-butyl ether	0.76J	ug/L	1.0	08/15/16 20:01	
40136646004	MW-2					
WI MOD GRO	Benzene	177	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	Ethylbenzene	13.7	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	Methyl-tert-butyl ether	2.4	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	Naphthalene	1.5	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	Toluene	1.8	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	1,2,4-Trimethylbenzene	7.2	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	1,3,5-Trimethylbenzene	0.78J	ug/L	1.0	08/15/16 20:53	
WI MOD GRO	m&p-Xylene	28.5	ug/L	2.0	08/15/16 20:53	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Sample: MW-1 Lab ID: 40136646001 Collected: 08/10/16 14:35 Received: 08/12/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		08/15/16 19:36	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		08/15/16 19:36	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		08/15/16 19:36	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		08/15/16 19:36	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		08/15/16 19:36	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		08/15/16 19:36	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		08/15/16 19:36	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		08/15/16 19:36	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		08/15/16 19:36	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		08/15/16 19:36	98-08-8	pH

Sample: MW-4 Lab ID: 40136646002 Collected: 08/10/16 14:55 Received: 08/12/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		08/15/16 20:01	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		08/15/16 20:01	100-41-4	
Methyl-tert-butyl ether	0.76J	ug/L	1.0	0.48	1		08/15/16 20:01	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		08/15/16 20:01	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		08/15/16 20:01	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		08/15/16 20:01	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		08/15/16 20:01	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		08/15/16 20:01	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		08/15/16 20:01	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		1		08/15/16 20:01	98-08-8	pH

Sample: MW-3 Lab ID: 40136646003 Collected: 08/10/16 15:10 Received: 08/12/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		08/15/16 20:27	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		08/15/16 20:27	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		08/15/16 20:27	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		08/15/16 20:27	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		08/15/16 20:27	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		08/15/16 20:27	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		08/15/16 20:27	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		08/15/16 20:27	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		08/15/16 20:27	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Sample: MW-3 **Lab ID: 40136646003** Collected: 08/10/16 15:10 Received: 08/12/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		08/15/16 20:27	98-08-8	

Sample: MW-2 **Lab ID: 40136646004** Collected: 08/10/16 15:20 Received: 08/12/16 07:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	177	ug/L	1.0	0.40	1		08/15/16 20:53	71-43-2	
Ethylbenzene	13.7	ug/L	1.0	0.39	1		08/15/16 20:53	100-41-4	
Methyl-tert-butyl ether	2.4	ug/L	1.0	0.48	1		08/15/16 20:53	1634-04-4	
Naphthalene	1.5	ug/L	1.0	0.42	1		08/15/16 20:53	91-20-3	
Toluene	1.8	ug/L	1.0	0.39	1		08/15/16 20:53	108-88-3	
1,2,4-Trimethylbenzene	7.2	ug/L	1.0	0.42	1		08/15/16 20:53	95-63-6	
1,3,5-Trimethylbenzene	0.78J	ug/L	1.0	0.42	1		08/15/16 20:53	108-67-8	
m&p-Xylene	28.5	ug/L	2.0	0.80	1		08/15/16 20:53	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		08/15/16 20:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		08/15/16 20:53	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL
Pace Project No.: 40136646

QC Batch: 232262 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40136646001, 40136646002, 40136646003, 40136646004

METHOD BLANK: 1377678 Matrix: Water
Associated Lab Samples: 40136646001, 40136646002, 40136646003, 40136646004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	08/15/16 10:36	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	08/15/16 10:36	
Benzene	ug/L	<0.40	1.0	08/15/16 10:36	
Ethylbenzene	ug/L	<0.39	1.0	08/15/16 10:36	
m&p-Xylene	ug/L	<0.80	2.0	08/15/16 10:36	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	08/15/16 10:36	
Naphthalene	ug/L	<0.42	1.0	08/15/16 10:36	
o-Xylene	ug/L	<0.45	1.0	08/15/16 10:36	
Toluene	ug/L	<0.39	1.0	08/15/16 10:36	
a,a,a-Trifluorotoluene (S)	%	105	80-120	08/15/16 10:36	

LABORATORY CONTROL SAMPLE & LCSD: 1377679 1377680

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.7	19.1	99	96	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	19.1	18.7	95	93	80-120	2	20	
Benzene	ug/L	20	20.3	20.3	101	101	80-120	0	20	
Ethylbenzene	ug/L	20	19.4	19.3	97	96	80-120	1	20	
m&p-Xylene	ug/L	40	38.5	38.4	96	96	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.4	19.9	102	99	80-120	3	20	
Naphthalene	ug/L	20	19.5	18.8	98	94	80-120	4	20	
o-Xylene	ug/L	20	19.7	19.7	99	99	80-120	0	20	
Toluene	ug/L	20	20.0	19.9	100	99	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				103	104	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1377869 1377870

Parameter	Units	40136648001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	18.9	18.5	94	93	48-177	2	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	17.4	17.2	87	86	73-145	1	20	
Benzene	ug/L	<0.40	20	20	21.9	21.7	109	108	74-139	1	20	
Ethylbenzene	ug/L	<0.39	20	20	21.2	20.7	106	103	74-140	2	20	
m&p-Xylene	ug/L	<0.80	40	40	39.5	38.8	99	97	55-165	2	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	21.8	21.1	109	106	80-120	3	20	
Naphthalene	ug/L	0.84J	20	20	20.9	20.2	100	97	73-133	3	20	
o-Xylene	ug/L	<0.45	20	20	20.1	19.7	101	98	73-136	2	20	
Toluene	ug/L	<0.39	20	20	21.4	21.2	107	106	80-128	1	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1377869 1377870													
Parameter	Units	40136648001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Limits	Max RPD	Qual
			Spike Conc.	Spike Conc.		Result		Result					
a,a,a-Trifluorotoluene (S)	%							103	102	80-120			

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10692.00 FREI OIL

Pace Project No.: 40136646

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40136646001	MW-1	WI MOD GRO	232262		
40136646002	MW-4	WI MOD GRO	232262		
40136646003	MW-3	WI MOD GRO	232262		
40136646004	MW-2	WI MOD GRO	232262		

REPORT OF LABORATORY ANALYSIS

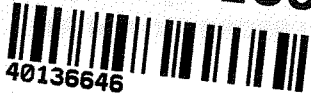
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Sample Condition Upon Receipt

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

Pace Analytical™

Client Name: Seymour Env.
 Courier: Fed Ex URS Client Pace Other: Durham
 Tracking #: 1201575

Project # **WO# : 40136646**


Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used: N/A Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature: Uncorr: ROT Corr: _____ Biological Tissue is Frozen: yes no
 Temp Blank Present: yes no

Person examining contents:
 Date: 8-12-16
 Initials: SW

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

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤ 2; NaOH+ZnAct ≥ 9, NaOH ≥ 12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>001-2vial; 002-1vial; 004-2vials</u>
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<u>8-12-16 SW</u>
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: AMT for SW Date: 8/12/16

December 05, 2016

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10692.00 FREI OIL
Pace Project No.: 40142780

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Dan Milewsky
dan.milewsky@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

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

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SAMPLE SUMMARY

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40142780001	MW-1	Water	11/29/16 14:35	12/01/16 07:20
40142780002	MW-4	Water	11/29/16 14:50	12/01/16 07:20
40142780003	MW-3	Water	11/29/16 15:00	12/01/16 07:20
40142780004	MW-2	Water	11/29/16 15:10	12/01/16 07:20

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SAMPLE ANALYTE COUNT

Project: 10692.00 FREI OIL
Pace Project No.: 40142780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40142780001	MW-1	WI MOD GRO	ALD	10	PASI-G
40142780002	MW-4	WI MOD GRO	ALD	10	PASI-G
40142780003	MW-3	WI MOD GRO	ALD	10	PASI-G
40142780004	MW-2	WI MOD GRO	ALD	10	PASI-G

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SUMMARY OF DETECTION

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40142780004	MW-2					
WI MOD GRO	Benzene	87.9	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	Ethylbenzene	9.1	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	Methyl-tert-butyl ether	1.7	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	Naphthalene	3.5	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	Toluene	1.5	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	1,2,4-Trimethylbenzene	10.3	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	1,3,5-Trimethylbenzene	1.6	ug/L	1.0	12/02/16 14:09	
WI MOD GRO	m&p-Xylene	27.7	ug/L	2.0	12/02/16 14:09	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

Sample: MW-1 **Lab ID: 40142780001** Collected: 11/29/16 14:35 Received: 12/01/16 07:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		12/02/16 09:53	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		12/02/16 09:53	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		12/02/16 09:53	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		12/02/16 09:53	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		12/02/16 09:53	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		12/02/16 09:53	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		12/02/16 09:53	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		12/02/16 09:53	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		12/02/16 09:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/02/16 09:53	98-08-8	pH

Sample: MW-4 **Lab ID: 40142780002** Collected: 11/29/16 14:50 Received: 12/01/16 07:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		12/02/16 10:45	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		12/02/16 10:45	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		12/02/16 10:45	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		12/02/16 10:45	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		12/02/16 10:45	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		12/02/16 10:45	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		12/02/16 10:45	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		12/02/16 10:45	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		12/02/16 10:45	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		12/02/16 10:45	98-08-8	

Sample: MW-3 **Lab ID: 40142780003** Collected: 11/29/16 15:00 Received: 12/01/16 07:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.40	ug/L	1.0	0.40	1		12/02/16 13:44	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		12/02/16 13:44	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		12/02/16 13:44	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		12/02/16 13:44	91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		12/02/16 13:44	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		12/02/16 13:44	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		12/02/16 13:44	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		12/02/16 13:44	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		12/02/16 13:44	95-47-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

Sample: MW-3 **Lab ID: 40142780003** Collected: 11/29/16 15:00 Received: 12/01/16 07:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		12/02/16 13:44	98-08-8	

Sample: MW-2 **Lab ID: 40142780004** Collected: 11/29/16 15:10 Received: 12/01/16 07:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	87.9	ug/L	1.0	0.40	1		12/02/16 14:09	71-43-2	
Ethylbenzene	9.1	ug/L	1.0	0.39	1		12/02/16 14:09	100-41-4	
Methyl-tert-butyl ether	1.7	ug/L	1.0	0.48	1		12/02/16 14:09	1634-04-4	
Naphthalene	3.5	ug/L	1.0	0.42	1		12/02/16 14:09	91-20-3	
Toluene	1.5	ug/L	1.0	0.39	1		12/02/16 14:09	108-88-3	
1,2,4-Trimethylbenzene	10.3	ug/L	1.0	0.42	1		12/02/16 14:09	95-63-6	
1,3,5-Trimethylbenzene	1.6	ug/L	1.0	0.42	1		12/02/16 14:09	108-67-8	
m&p-Xylene	27.7	ug/L	2.0	0.80	1		12/02/16 14:09	179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		12/02/16 14:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		12/02/16 14:09	98-08-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL
Pace Project No.: 40142780

QC Batch: 243040 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40142780001, 40142780002, 40142780003, 40142780004

METHOD BLANK: 1439791 Matrix: Water
Associated Lab Samples: 40142780001, 40142780002, 40142780003, 40142780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	12/02/16 08:11	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	12/02/16 08:11	
Benzene	ug/L	<0.40	1.0	12/02/16 08:11	
Ethylbenzene	ug/L	<0.39	1.0	12/02/16 08:11	
m&p-Xylene	ug/L	<0.80	2.0	12/02/16 08:11	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	12/02/16 08:11	
Naphthalene	ug/L	<0.42	1.0	12/02/16 08:11	
o-Xylene	ug/L	<0.45	1.0	12/02/16 08:11	
Toluene	ug/L	<0.39	1.0	12/02/16 08:11	
a,a,a-Trifluorotoluene (S)	%	103	80-120	12/02/16 08:11	

LABORATORY CONTROL SAMPLE & LCSD: 1439792 1439793

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.0	20.1	100	101	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	19.2	19.4	96	97	80-120	1	20	
Benzene	ug/L	20	20.5	20.8	103	104	80-120	1	20	
Ethylbenzene	ug/L	20	19.3	19.6	97	98	80-120	1	20	
m&p-Xylene	ug/L	40	38.6	39.0	97	97	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	20.2	20.7	101	103	80-120	2	20	
Naphthalene	ug/L	20	18.1	19.2	90	96	80-120	6	20	
o-Xylene	ug/L	20	19.7	19.7	98	99	80-120	0	20	
Toluene	ug/L	20	19.8	20.1	99	100	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				101	102	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1440012 1440013

Parameter	Units	40142780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.42	20	20	18.8	19.1	94	95	48-177	1	20	
1,3,5-Trimethylbenzene	ug/L	<0.42	20	20	17.7	17.5	89	88	73-145	1	20	
Benzene	ug/L	<0.40	20	20	20.3	20.7	102	104	74-139	2	20	
Ethylbenzene	ug/L	<0.39	20	20	18.6	19.2	93	96	74-140	3	20	
m&p-Xylene	ug/L	<0.80	40	40	37.0	37.6	93	94	55-165	2	20	
Methyl-tert-butyl ether	ug/L	<0.48	20	20	20.4	20.0	102	100	80-120	2	20	
Naphthalene	ug/L	<0.42	20	20	18.1	18.3	90	92	73-133	2	20	
o-Xylene	ug/L	<0.45	20	20	19.2	19.6	96	98	73-136	2	20	
Toluene	ug/L	<0.39	20	20	19.5	20.0	98	100	80-128	2	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		1440012		1440013									
Parameter	Units	40142780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
a,a,a-Trifluorotoluene (S)	%						101	102	80-120			pH	

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

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QUALIFIERS

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 10692.00 FREI OIL

Pace Project No.: 40142780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40142780001	MW-1	WI MOD GRO	243040		
40142780002	MW-4	WI MOD GRO	243040		
40142780003	MW-3	WI MOD GRO	243040		
40142780004	MW-2	WI MOD GRO	243040		

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(Please Print Clearly)

Company Name: Seymour Environmental Services
 Branch/Location: McFarland
 Project Contact: Robyn Seymour
 Phone: 608-838-9120
 Project Number: 10692.00
 Project Name: Frei Oil
 Project State: Wisconsin
 Sampled By (Print): Mark R. Seymour
 Sampled By (Sign):
 PO #:
 Regulatory Program:



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCl C=H2SO4 D=HNO3 E=D1 Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

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

Y/N	Pick Letter	Analyses Requested
N		
B		PUOC+Napn

Quote #:
 Mail To Contact: Robyn Seymour
 Mail To Company: Seymour Environmental Services
 Mail To Address: 2531 Dyreson Road, McFarland, Wisconsin 53558
 Invoice To Contact: Robyn Seymour
 Invoice To Company: Seymour Environmental Services
 Invoice To Address: 2531 Dyreson Road, McFarland, Wisconsin 53558
 Invoice To Phone:

Data Package Options
 (billable) EPA Level III
 EPA Level IV
 On your sample (billable) NOT needed on your sample
 Matrix Codes
 A= Air B= Biota C= Charcoal O= Oil S= Soil SI= Sludge
 W= Water DW= Drinking Water GW= Ground Water SW= Surface Water WP= Waste Water

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	NW-1	11/29/16	14:35	GW
002	NW-4	11/29/16	14:50	GW
003	NW-3	11/29/16	15:00	GW
004	NW-2	11/29/16	15:10	GW

Relinquished By: Robyn Seymour
 Date/Time: 11/30/16 pm
 Received By: [Signature]
 Date/Time: [Signature]

Relinquished By: [Signature]
 Date/Time: [Signature]
 Received By: [Signature]
 Date/Time: [Signature]

LAB COMMENTS (Lab Use Only)
 3-40 only

FACE Project No. 40142780
 Receipt Temp = R01 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

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

Project #: WO#: 40142780

Client Name: Seymour Environmental

Courier: Fed Ex UPS Client Pace Other: Dunham

Tracking #: 1238303



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

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

Packing Material: Bubble Wrap Bubble Bags None Other

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

Cooler Temperature Uncorr: 201 / Corr: Biological Tissue is Frozen: yes

Temp Blank Present: yes no

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

Person examining contents:
Date: 12/1/16
Initials: TL

Comments:

Table with 15 rows of inspection criteria and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time, Containers Intact, etc.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

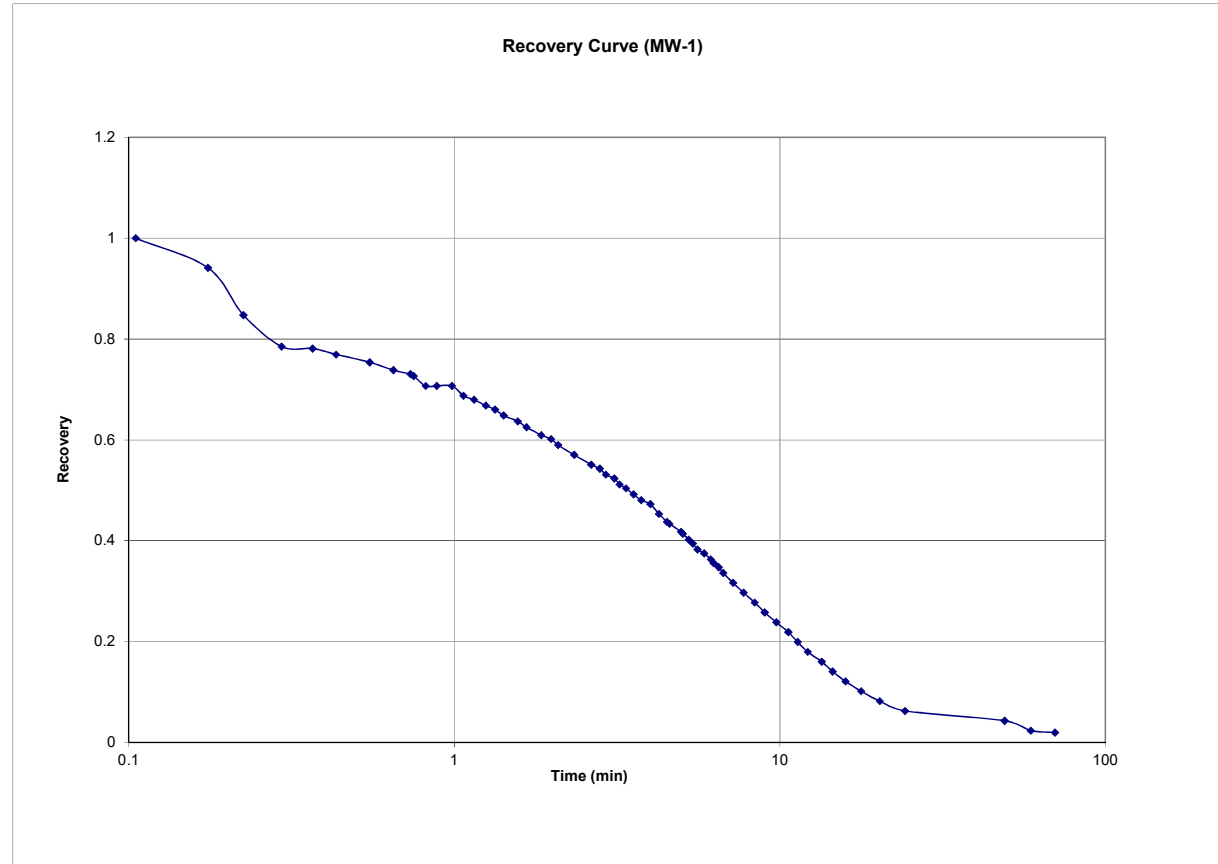
Project Manager Review: [Signature] Date: 12/1/16

APPENDIX C

CONDUCTIVITY CURVES

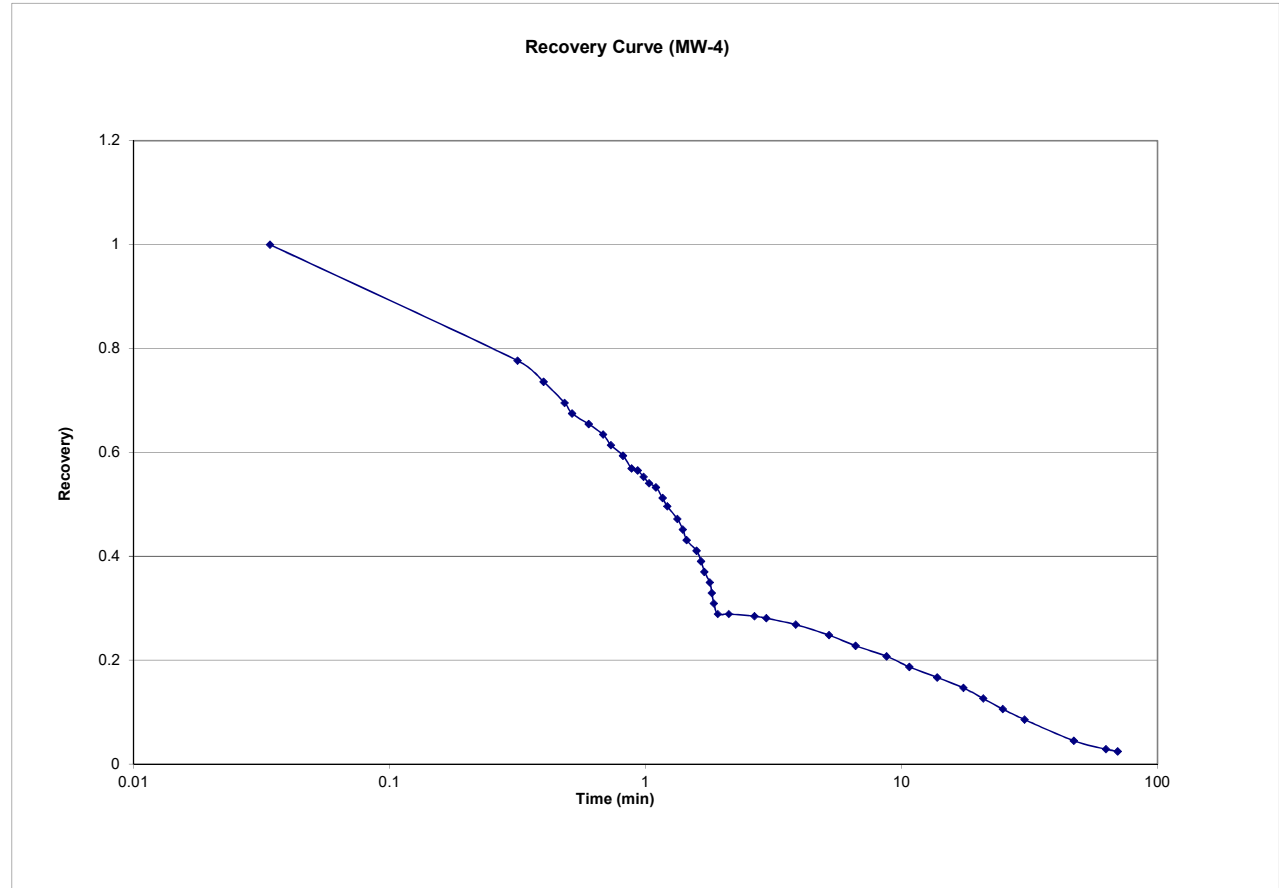
Date 9/1/2017
 Groundwater Depth 6.94 Total Depth 15.82
 Slug Volume 2 gal

Elapsed Time (min)	Depth	Delta Head	
0.105	9.5	2.56	1
0.175	9.35	2.41	0.941406
0.225	9.11	2.17	0.847656
0.29466667	8.95	2.01	0.785156
0.36666667	8.94	2.00	0.78125
0.43333333	8.91	1.97	0.769531
0.55	8.87	1.93	0.753906
0.65	8.83	1.89	0.738281
0.73333333	8.81	1.87	0.730469
0.75	8.8	1.86	0.726563
0.81666667	8.75	1.81	0.707031
0.88333333	8.75	1.81	0.707031
0.98333333	8.75	1.81	0.707031
1.06666667	8.7	1.76	0.6875
1.15	8.68	1.74	0.679688
1.25	8.65	1.71	0.667969
1.33333333	8.63	1.69	0.660156
1.41666667	8.6	1.66	0.648438
1.56666667	8.57	1.63	0.636719
1.66666667	8.54	1.60	0.625
1.85	8.5	1.56	0.609375
1.98333333	8.48	1.54	0.601563
2.08333333	8.45	1.51	0.589844
2.33333333	8.4	1.46	0.570313
2.63333333	8.35	1.41	0.550781
2.8	8.33	1.39	0.542969
2.91666667	8.3	1.36	0.53125
3.1	8.28	1.34	0.523438
3.21666667	8.25	1.31	0.511719
3.36666667	8.23	1.29	0.503906
3.55	8.2	1.26	0.492188
3.75	8.17	1.23	0.480469
4	8.15	1.21	0.472656
4.25	8.1	1.16	0.453125
4.5	8.06	1.12	0.4375
4.58333333	8.05	1.11	0.433594
4.96666667	8.01	1.07	0.417969
5.03333333	8	1.06	0.414063
5.25	7.97	1.03	0.402344
5.4	7.95	1.01	0.394531
5.58333333	7.92	0.98	0.382813
5.85	7.9	0.96	0.375
6.13333333	7.87	0.93	0.363281
6.26666667	7.85	0.91	0.355469
6.48333333	7.83	0.89	0.347656
6.7	7.8	0.86	0.335938
7.18333333	7.75	0.81	0.316406
7.73333333	7.7	0.76	0.296875
8.36666667	7.65	0.71	0.277344
8.98333333	7.6	0.66	0.257813
9.75	7.55	0.61	0.238281
10.61666667	7.5	0.56	0.21875
11.33333333	7.45	0.51	0.199219
12.16666667	7.4	0.46	0.179688
13.43333333	7.35	0.41	0.160156
14.51666667	7.3	0.36	0.140625
15.9	7.25	0.31	0.121094
17.76666667	7.2	0.26	0.101563
20.25	7.15	0.21	0.082031
24.21666667	7.1	0.16	0.0625
49	7.05	0.11	0.042969
59	7	0.06	0.023437
70	6.99	0.05	0.019531



Date 9/1/2017
 Groundwater Depth 5.54 Well depth 13.25
 Slug Volume 2 gal

Elapsed Time (min)	Depth	Delta Head	
0.0341667	8	2.46	1
0.3166667	7.45	1.91	0.776423
0.4	7.35	1.81	0.735772
0.4833333	7.25	1.71	0.695122
0.5166667	7.2	1.66	0.674797
0.6	7.15	1.61	0.654472
0.6833333	7.1	1.56	0.634146
0.7333333	7.05	1.51	0.613821
0.8166667	7	1.46	0.593496
0.8833333	6.94	1.40	0.569106
0.9333333	6.93	1.39	0.565041
0.9833333	6.9	1.36	0.552846
1.0333333	6.87	1.33	0.54065
1.1	6.85	1.31	0.53252
1.1666667	6.8	1.26	0.512195
1.2166667	6.76	1.22	0.495935
1.3333333	6.7	1.16	0.471545
1.4	6.65	1.11	0.45122
1.45	6.6	1.06	0.430894
1.5833333	6.55	1.01	0.410569
1.65	6.5	0.96	0.390244
1.7	6.45	0.91	0.369919
1.7833333	6.4	0.86	0.349593
1.8166667	6.35	0.81	0.329268
1.85	6.3	0.76	0.308943
1.9166667	6.25	0.71	0.288618
2.1166667	6.25	0.71	0.288618
2.6666667	6.24	0.70	0.284553
2.9666667	6.23	0.69	0.280488
3.8666667	6.2	0.66	0.268293
5.2166667	6.15	0.61	0.247967
6.6166667	6.1	0.56	0.227642
8.75	6.05	0.51	0.207317
10.7333333	6	0.46	0.186992
13.8	5.95	0.41	0.166667
17.4833333	5.9	0.36	0.146341
20.8833333	5.85	0.31	0.126016
24.8833333	5.8	0.26	0.105691
30.3166667	5.75	0.21	0.085366
47.1666667	5.65	0.11	0.044715
63	5.61	0.07	0.028455
70	5.6	0.06	0.02439



APPENDIX D

DEED

942368

Document Number

VOL 1182 PAGE 709

WARRANTY DEED

Office of Register of Deeds
 Dodge County, WI
 RECEIVED FOR RECORD

NOV - 2 2001

at 10:09 o'clock A. M.

Chris Planasch
 CHRIS PLANASCH - Registrar

THIS DEED, made between MA-BO-PA, Inc., a Wisconsin corporation ("Grantor") and MARSH AUTOMOTIVE, INC., a Wisconsin corporation (Grantee).

WITNESSETH, That the said Grantor, for a valuable consideration of Ten (\$10.00) Dollars and other good and valuable consideration, conveys to Grantee the following described real estate in Dodge County, State of Wisconsin:

Lots 1 and 2 of Certified Survey Map No. 1992, being a part of the unplatted lands in the South 1/2 of the Southwest 1/4 of Section 6, Town 11 North, Range 16 East, City of Horicon, Dodge County, Wisconsin as recorded in Volume 12 of Certified Surveys at page 373 as Document No. 690831.

TRANSFER FEE

\$ 30.00 N

Recording Area Name and Return Address

Marsh Automotive
421 Barstow St
Horicon WI 53032

236-1116-0633-114
Parcel Identification Numbers)

Together with all and singular hereditaments and appurtenances thereto belonging; and grantor warrants that title is good, indefeasible in fee simple and free and clear of encumbrances except: for general and special taxes and assessments for the year 2000 and subsequent years; recorded easements for the distribution of utility and municipal services including those set forth on the reverse side hereof; public or private rights to such portion of the premises as may be used, laid out or dedicated for street, highway, and/or road purposes; municipal building and zoning codes; and will warrant and defend the same.

This is not homestead property. Dated this 25th day of October, 2001.

MA-BO-PA, INC.,
a Wisconsin corporation

By: *Pat Gaugert*
PAT GAUGERT, PRESIDENT

ACKNOWLEDGMENT

State of WISCONSIN
County of WALWORTH

Personally came before me this 25 day of October, 2001 the above named: Pat Gaugert to me known to be the person who executed the foregoing instrument and acknowledge the same.

Timothy B. Swatek
 Notary Public, Walworth County, WI
 My commission is permanent.
 If not, state expiration date: _____

THIS INSTRUMENT WAS DRAFTED BY ATTORNEY TIMOTHY B. SWATEK
LAKE GENEVA, WI 53147