



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
PO Box 12436
Milwaukee, Wisconsin 53212-0436
FAX 414-263-8606
Telephone 414-263-8500
TTY Access via relay - 711

March 2, 2007

Mr. Don Johnson
U.S. Filter Co., Inc.
425 S. Washington St.
Combined Locks, WI 54113-1049

SUBJECT: No Further Action – August 16, 2006 450 gallon #2 fuel oil spill at Tank No. 304, U.S. Oil Co. terminal at 9451 N. 107th St., Milwaukee, WI WDNR FID#241017700 BRRTS#02-41-548754

Dear Mr. Johnson:

On February 12, 2007, the Wisconsin Department of Natural Resources received an *Incident Response Report* for the above-referenced spill which was submitted on your behalf by Shaw Environmental. Based on a review of the information provided in the report, the Department concurs that the environment has been restored to the extent practicable as provided in ch. NR 708.09, Wis. Adm. Code. Therefore, the immediate action in response to a release has been completed and the Department of Natural Resources is requiring no further action at this time.

We appreciate your efforts to protect and restore the environment at this site. If you have any questions regarding this No Further Action determination, please contact me at (920) 892-8756 ext. 3025.

Sincerely,

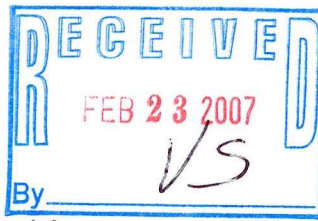
Nancy D. Ryan, Hydrogeologist
Bureau for Remediation & Redevelopment

Enclosure

cc: SER site file
Timothy Welch, Shaw Environmental



Shaw Environmental, Inc.



Shaw Environmental, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, WI 53212-3939
414.291.2350
FAX: 414.291.2385

February 22, 2007

Ms. Victoria Stovall
Program Assistant
Wisconsin Dept. of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee WI 53212-3128

**Re: Incident Response Report – Review Fee \$250.00
U.S. Oil Co., Milwaukee Terminal
Tank No. 304
9521 North 107th Street
Milwaukee, WI 53224
Shaw Environmental Project No. : 124913**

Dear Ms. Stovall :

As requested by Nancy Ryan of the WDNR, Shaw Environmental, Inc. is submitting the review fee of \$250.00 for Department review and decision regarding:

- *Incident Response Report*

This incident response report and request for no further action was submitted to the WDNR on February 7, 2007 as follow-up to the spill notification and correspondence conducted on August 16, 2006.

If you have any questions, please contact me at (414) 291-2359.

Sincerely,

Shaw Environmental, Inc.

Heidi Waeyfel for:

Timothy P. Welch, P.G.
Project Manager

Cc: Mr. Don Johnston – U.S. Oil, Inc.

Enclosures

Ryan, Nancy D - DNR

From: Welch, Timothy [timothy.welch@shawgrp.com]
Sent: Tuesday, February 13, 2007 3:10 PM
To: Ryan, Nancy D - DNR
Cc: Woelfel, Heidi; don.johnston@usoil.com
Subject: US Oil: Milwaukee Terminal- Tank 304

Nancy

Thank you for your call this afternoon regarding the closure request for the US Oil: Milwaukee Terminal -Tank 304. As requested, we will send the Department a \$250 check for closure review and written decision. Regarding Department notification, our records indicate that Scott Ferguson was notified of the incident on 8/16/06 at 2:06 pm. Please contact me with any additional questions.

Tim

Tim Welch, P.G.
Project Manager
Shaw Environmental & Infrastructure, Inc.
111 West Pleasant Street
Suite 105
Milwaukee, Wi. 53212
414.291.2359 (direct)
414.291.2350 (main)
414.291.2385 (fax)
www.shawgrp.com

*Scott Ferguson has no
record of spill notification
on 8/16/06*

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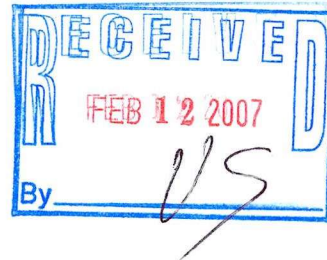
The Shaw Group Inc.
<http://www.shawgrp.com>



Shaw Environmental, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, WI 53212-3939
414.291.2350
FAX: 414.291.2385

February 7, 2007

Ms. Victoria Stovall
Program Assistant
Wisconsin Dept. of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee WI 53212-3128



**Re: Incident Response Report
U.S. Oil Co., Milwaukee Terminal
Tank No. 304
9521 North 107th Street
Milwaukee, WI 53224
Shaw Environmental Project No. : 124913**

Dear Ms. Stovall :

Shaw Environmental, Inc. is submitting the following for Department review and decision:

- *Incident Response Report*

This incident response report and request for no further action is in follow-up to the spill notification and correspondence conducted on August 16, 2006.

If you have any questions, please contact me at (414) 291-2359.

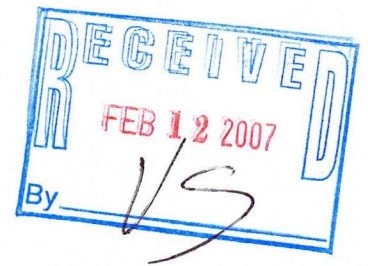
Sincerely,
Shaw Environmental, Inc.


Timothy P. Welch, P.G.
Project Manager

Cc: Mr. Don Johnston – U.S. Filter (letter only)

Enclosures

INCIDENT RESPONSE REPORT



*U.S. Oil Co., Milwaukee Terminal
Tank No. 304
9521 North 107th Street
Milwaukee, Wisconsin 53224*

Shaw Project No. 124913

February 2007

Prepared For:

Mr. Don Johnston
U.S. Oil Company, Inc.
Remediation and Redevelopment
425 S. Washington Street
Combined Locks, WI 54113-1049

Submitted to:

Ms. Vicki Stovall
Wisconsin Dept. of Natural Resources
2300 N Dr Martin Luther King Jr Dr
Milwaukee WI 53212-3128

Submitted by:



Shaw® Shaw Environmental & Infrastructure, Inc.
111 West Pleasant Street, Suite 105
Milwaukee, Wisconsin 53212-3939

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1.0 Incident Summary

On August 16, 2006, at approximately 1:50 pm, approximately 450 gallons of #2 fuel oil was released near Tank No. 304 located at the U.S. Oil Co., Inc. (U.S. Oil) terminal at 9451 N. 107th Street, Milwaukee, Wisconsin (Figures 1 and 2). Tank No. 304 is an 80,000 gallon capacity above ground tank which was under repair when the leak occurred during fuel transfer activities. Tank No. 304 had a connecting valve open on a common line when fuel was distributed from another tank. Mr. Don Johnston of U.S. Oil notified the Wisconsin Department of Natural Resources (WDNR) on August 16, 2006 at 2:06 p.m. of the release incident. Product recovery activities began immediately and a total of 200 gallons of diesel product and water were recovered. The recovered liquids were pumped into the facility's interface tank for eventual blending into virgin petroleum products.

On August 17, 2006, U.S. Oil contracted Advanced Waste Services to begin the excavation and disposal activities of the petroleum impacted soils near Tank No. 304. The initial soil excavation was conducted to remove petroleum impacted soils and to insure conditions near Tank No. 304 were safe for welding during repair activities on underground piping and the tank floor. Weather conditions at the time of the response activities were warm with no wind or precipitation. Approximately 61.81 tons of soil were excavated and transported to the Waste Management Orchard Ridge Landfill in Menomonee Falls, Wisconsin for biopile treatment and disposal. The weight tickets for the soil disposal are provided in Appendix A.

Upon the completion of repairs of the tank bottom and underground piping on Tank No. 304 , U.S. Oil conducted an additional soil excavation near Tank No. 304. Approximately 576.31 tons of soil was removed from the spill area near the subject tank on December 13 and 14, 2006. The soils were transported to the Waste Management Orchard Ridge Landfill in Menomonee Falls, Wisconsin for biopile treatment and disposal. The weight tickets for the soil disposal are provided in Appendix A.

2.0 Confirmatory Sampling

On January 8, 2008, Shaw Environmental (Shaw) conducted confirmatory soil sampling from the excavation near the subject tank. The excavated area was approximately 130 feet long (north-south) by 40 feet wide (east-west) by 3 feet deep. The soils were comprised of clayey silt and silty sand fill material. A total of nine confirmation samples were collected from the bottom of the excavation. Figure 3 presents the estimated extent of excavation, and Figure 4 presents the confirmatory soil samples locations. The soil samples were submitted to Pace Analytical of Green Bay, Wisconsin for Diesel Range Organics (DRO) by Method WI MOD DRO and for Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method SW846 8270C-SIM laboratory analysis. Sample containers, preservation methods, and storage procedures followed the requirements for the respective analytical methods.

2.1 Diesel Range Organics Results

DRO was reported at concentrations above the laboratory analytical method detection limit in three of the nine soil samples submitted for laboratory analysis. Soil samples CS-3 (160 milligrams per kilogram (mg/kg)) and CS-7 (120 mg/kg) had reported DRO concentrations greater than the NR-720.09 Generic Residual Contamination Level (RCL) of 100 mg/kg.

2.2 PAH Results

There were no reported PAH constituents detected at concentrations greater than the generic RR-519-97 Table 1 Direct Contact Standards for an industrial site, in the nine soil samples submitted for laboratory analysis.

Soil sample laboratory results are summarized in Table 1. A soil quality map is illustrated on Figure 5. The laboratory analytical report is presented Appendix B.

2.3 Potential Contaminant Migration Pathways and Receptors

2.3.1 Utilities

There are no underground utilities in the vicinity of the leak.

3.0 Conclusions and Recommendations

3.1 Summary of Soil Impacts

3.1.1 Extent of Soil Impacts

The laboratory analytical results indicate that the immediate spill response and subsequent excavation of the impacted soils has successfully mitigated the fuel oil release near Tank No. 304. Low level concentrations of DRO remain at the excavation bottom in two areas. A summary follows:

- The excavation bottom soils at the site are comprised of a clayey silt and silty sand fill material.
- The soil samples did not contain PAH compounds at concentrations above the suggested industrial direct contact pathway RCL. DRO was reported at concentrations above the NR 720.09 Generic Residual Contamination Level (RCL) of 100 mg/kg at soil sample locations CS-3 and CS-7 at 160 mg/kg and 120 mg/kg, respectively.
- The site will remain in use in an industrial capacity as a petroleum fuel pipeline storage and bulk facility.

3.2 Recommendations

The spill response and subsequent excavation activities at Tank No. 304 have removed impacted soils. Minimal DRO impacted soil remains in place at the bottom of the excavation at two locations; however, compound specific PAHs are not present at concentrations above generic Direct Contact Standards. It does not appear the presence of residual impacted soils near Tank No. 304 will pose a threat to human health, the environment, or to groundwater quality.

On behalf of U.S. Oil, Co., Shaw is petitioning the WDNR for No Further Response Action for Tank No. 204 at the Site.

Appendix A
Waste Disposal Documentation

U.S. OIL CO., INC. HAZARDOUS MATERIAL SPILL REPORT FORM

1. REPORTING INFORMATION

Person Making Report: Richard Gibowski Dept/Organization: Milwaukee Terminal
Date Reported: 8/16/06 Time Reported: 1:30 PM

2. INCIDENT INFORMATION

Date: 8/16/06 Time: 1:30 PM Amount Spilled: Approx 450 GALLONS

Responsible Party: Richard Gibowski

Material(s) Spilled: VLSD - #2 Fuel Oil

Location: (Give site address, description of location on the site)
Milwaukee Central Terminal - 9451 N. 107th St Tank 304 dike area, east side of tank

Cause of Spill:
Oil backed up through open line common to two tanks

Injuries or Exposures:
No

Actions Taken:
Oil/water mix picked up with terminal equipment, put into South Terminal interface tank. Stained soil around tank removed so HMT workers could continue with tank work. Contaminated soil taken to landfill

3. SITE CONDITIONS

Weather: Temperature: 75° Wind Speed: Still Light Moderate Gusty
Precipitation: None Mist Rain Sleet Snow Other: _____
Surface Type: Soil Gravel Pavement Other: Clay
Spill Impact: Surface Water Storm Sewer Off-Site

4. AGENCIES NOTIFIED

(Record date, Time, and Name of Person Notified)

Police: _____ State DEG/DNR: _____
 Fire: _____ EPA: _____
 Local DNR: _____ DOT: _____
 Local DEG: _____ Coast Guard: _____
 National Response Center: _____

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET

911626



A Waste Management Company

BILL TO: ADVANCE WASTE *BT*

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: _____

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL

PROFILE #: BIO488019

ACCEPTED BY: *BT* 8/17/06

DRIVERS SIGNATURE: *Tony Martin* 8/17/06

TRUCK NO. 352 TONS/YARDS

8.45

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCR-000-091

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET

911624



A Waste Management Company

BILL TO: ADVANCE WASTE *BT*

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: _____

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL

PROFILE #: BIO488019

ACCEPTED BY: *BT* 8/17/06

DRIVERS SIGNATURE: *Tony Martin* 8/17/06

TRUCK NO. 352 TONS/YARDS

BT

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCR-000-091

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET

911623

BILL TO: ADVANCE WASTE *AW*



A Waste Management Company

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: _____

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL Date

PROFILE # BIO488019

ACCEPTED BY: *[Signature]* 8.17.06 Date

DRIVERS SIGNATURE: *[Signature]* 8.17.06 Date

TRUCK NO. _____ TONS/YARDS _____

7.94

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCS-008-686

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET

911625

BILL TO: ADVANCE WASTE *AW*



A Waste Management Company

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: _____

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL Date

PROFILE # BIO488019

ACCEPTED BY: *[Signature]* 8.17.06 Date

DRIVERS SIGNATURE: *[Signature]* 8.17.06 Date

TRUCK NO. 352 TONS/YARDS _____

[Handwritten marks]

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCS-008-686

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET

911628

BILL TO: ADVANCE WASTE *377*



A Waste Management Company

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: _____

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL ^{Date}

PROFILE # BIO488019

ACCEPTED BY: *[Signature]* ^{Date}

DRIVERS SIGNATURE: *Tony Main* ^{Date} 8/17/06

TRUCK NO. 357

TONS/YARDS

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCE-008-496

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET

911627

BILL TO: ADVANCE WASTE *377*



A Waste Management Company

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: _____ ^{Date}

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL ^{Date}

PROFILE # BIO488019

ACCEPTED BY: *[Signature]* ^{Date} 8/17/06

DRIVERS SIGNATURE: *Tony Main* ^{Date} 8/17/06

TRUCK NO. 357

TONS/YARDS

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

DCE-008-496

Orchard Ridge

SPECIAL WASTE MANIFEST DISPOSAL TICKET — 911622

61.81 Ton Total

BILL TO: ADVANCE WASTE 372



A Waste Management Company

TRANSPORTER: ADVANCE WASTE

GENERATOR: US OIL

GENERATORS SIGNATURE: [Signature] Date: 8/17/06

WASTE DESCRIPTION: DIESEL CONTAMINATED SOIL

9.41

PROFILE # BIO498019

ACCEPTED BY: [Signature] Date: 8/17/06

DRIVERS SIGNATURE: [Signature] TRUCK NO. _____ TONS/YARDS _____

WHITE & YELLOW - GENERATOR COPY / PINK - DISPOSAL SITE COPY / GOLD - TRANSPORTER COPY

008-098-096



WASTE MANAGEMENT

WASTE MANAGEMENT OF WI ORCHARD RIDGE RDF
 W124 N9355 BOUNDARY ROAD
 MENOMONEE FALLS WI 53051-1602
 WMEservice@wm.com

Customer: US OIL COMPANY INC
 Account Number: 953-0002672-2286-7
 Invoice Date: 12/15/2006
 Invoice Number: 0027924-2286-3
 Due Date: Due Upon Receipt
 WM ezPay Account ID: 00007-04463-53006

Service Location: 953-2672 US Oil - Bio488019: 9451 North 107th Street: Milwaukee WI 53224-1105

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/13/06	450752	Veh#:96 Manf#: 940094 Bioremediation Gnrtr:136-us	18.22	TON	29.00	528.38
12/13/06	450754	Veh#:06 Manf#: 940093 Bioremediation Gnrtr:136-us	17.74	TON	29.00	514.46
12/13/06	450782	Veh#:96 Manf#: 940095 Bioremediation Gnrtr:136-us	16.37	TON	29.00	474.73
12/13/06	450796	Veh#:06 Manf#: 940096 Bioremediation Gnrtr:136-us	21.77	TON	29.00	631.33
12/13/06	450814	Veh#:96 Manf#: 940097 Bioremediation Gnrtr:136-us	19.30	TON	29.00	559.70
12/13/06	450822	Veh#:06 Manf#: 940098 Bioremediation Gnrtr:136-us	24.25	TON	29.00	703.25
12/14/06	450885	Veh#:96 Manf#: 940103 Bioremediation Gnrtr:136-us	17.18	TON	29.00	498.22
12/14/06	450893	Veh#:00 Manf#: 940107 Bioremediation Gnrtr:136-us	18.96	TON	29.00	549.84
12/14/06	450912	Veh#:96 Manf#: 940104 Bioremediation Gnrtr:136-us	18.70	TON	29.00	542.30
12/14/06	450917	Veh#:00 Manf#: 940111 Bioremediation Gnrtr:136-us	19.23	TON	29.00	557.67
12/14/06	450924	Veh#:98 Manf#: 940099 Bioremediation Gnrtr:136-us	19.15	TON	29.00	555.35
12/14/06	450942	Veh#:96 Manf#: 940105 Bioremediation Gnrtr:136-us	17.90	TON	29.00	519.10
12/14/06	450950	Veh#:00 Manf#: 940110 Bioremediation Gnrtr:136-us	21.46	TON	29.00	622.34
12/14/06	450956	Veh#:98 Manf#: 940100 Bioremediation Gnrtr:136-us	21.38	TON	29.00	620.02





WASTE MANAGEMENT

WASTE MANAGEMENT OF WI ORCHARD RIDGE RDF
W124 N9355 BOUNDARY ROAD
MENOMONEE FALLS WI 53051-1602
WMEservice@wm.com

Customer: US OIL COMPANY INC
Account Number: 953-0002672-2286-7
Invoice Date: 12/15/2006
Invoice Number: 0027924-2286-3
Due Date: Due Upon Receipt
WM ezPay Account ID: 00007-04463-53006

Service Location: 953-2672 US Oil - Bio488019: 9451 North 107th Street: Milwaukee WI 53224-1105

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/13/06	450752	Veh#:96 Manf#: 940094 Bioremediation Gnrtr:136-us	18.22	TON	29.00	528.38
12/13/06	450754	Veh#:06 Manf#: 940093 Bioremediation Gnrtr:136-us	17.74	TON	29.00	514.46
12/13/06	450782	Veh#:96 Manf#: 940095 Bioremediation Gnrtr:136-us	16.37	TON	29.00	474.73
12/13/06	450796	Veh#:06 Manf#: 940096 Bioremediation Gnrtr:136-us	21.77	TON	29.00	631.33
12/13/06	450814	Veh#:96 Manf#: 940097 Bioremediation Gnrtr:136-us	19.30	TON	29.00	559.70
12/13/06	450822	Veh#:06 Manf#: 940098 Bioremediation Gnrtr:136-us	24.25	TON	29.00	703.25
12/14/06	450885	Veh#:96 Manf#: 940103 Bioremediation Gnrtr:136-us	17.18	TON	29.00	498.22
12/14/06	450893	Veh#:00 Manf#: 940107 Bioremediation Gnrtr:136-us	18.96	TON	29.00	549.84
12/14/06	450912	Veh#:96 Manf#: 940104 Bioremediation Gnrtr:136-us	18.70	TON	29.00	542.30
12/14/06	450917	Veh#:00 Manf#: 940111 Bioremediation Gnrtr:136-us	19.23	TON	29.00	557.67
12/14/06	450924	Veh#:98 Manf#: 940099 Bioremediation Gnrtr:136-us	19.15	TON	29.00	555.35
12/14/06	450942	Veh#:96 Manf#: 940105 Bioremediation Gnrtr:136-us	17.90	TON	29.00	519.10
12/14/06	450950	Veh#:00 Manf#: 940110 Bioremediation Gnrtr:136-us	21.46	TON	29.00	622.34
12/14/06	450956	Veh#:98 Manf#: 940100 Bioremediation Gnrtr:136-us	21.38	TON	29.00	620.02



Service Location: 953-2672 US Oil - Bio488019: 9451 North 107th Street: Milwaukee WI 53224-1105

Date	Ticket	Description	Quantity	U/M	Rate	Amount
12/14/06	450978	Veh#:96 Manf#: 940106 Bioremediation Gnrtr: 136-us	15.70	TON	29.00	455.30
12/14/06	450986	Veh#:00 Manf#: 940109 Bioremediation Gnrtr: 136-us	17.39	TON	29.00	504.31
Total Current Charges						8,836.30



Appendix B
Laboratory Analytical Report



REVISED

1241 Bellevue Street, Suite 9
Green Bay, WI 54302
920-469-2436, Fax: 920-469-8827

Analytical Report Number: 880034

Client: SHAW E & I

Lab Contact: Laurie Woelfel

Project Name: US OIL

Project Number:

Lab Sample Number	Field ID	Matrix	Collection Date
880034-001	CS-1	SOIL	01/08/07 09:45
880034-002	CS-2	SOIL	01/08/07 09:50
880034-003	CS-3	SOIL	01/08/07 09:55
880034-004	CS-4	SOIL	01/08/07 10:05
880034-005	CS-5	SOIL	01/08/07 10:10
880034-006	CS-6	SOIL	01/08/07 10:15
880034-007	CS-7	SOIL	01/08/07 10:20
880034-008	CS-8	SOIL	01/08/07 10:25
880034-009	CS-9	SOIL	01/08/07 10:30
880034-010	ES-1	SOIL	01/08/07 10:40
880034-011	ES-2	SOIL	01/08/07 10:45

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and Laboratory Standard Operating Procedure. Exceptions, if any, are discussed in the accompanying sample comments. Release of this final report is authorized by Laboratory management, as is verified by the following signature. This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc. The sample results relate only to the analytes of interest tested.

Approval Signature

Date

1-23-07

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-1

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-001

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	79.7				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 5.3			5.3	1	mg/kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	< 3.7	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 3.6	3.6	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	< 4.5	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 6.6	6.6	22		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 3.6	3.6	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.5	3.5	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 4.5	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 5.5	5.5	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.5	3.5	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	< 3.6	3.6	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluorene	< 4.3	4.3	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.2	3.2	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	< 5.0	5.0	17		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	< 3.7	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	< 3.1	3.1	10		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	67	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	69	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	74	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-2

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-002

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	71.5				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 5.6			5.6	1	mg/Kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 4.2	4.2	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 4.4	4.4	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	< 4.2	4.2	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	< 5.0	5.0	17		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 7.4	7.4	25		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 5.0	5.0	17		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 4.3	4.3	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 6.1	6.1	20		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluorene	< 4.8	4.8	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.5	3.5	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	< 5.6	5.6	19		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	< 4.1	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	< 3.4	3.4	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	58	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	55	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	64	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-3

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-003

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	79.4				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	160			5.4	1	mg/kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	140	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	180	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	43	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	8.1	3.6	12		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Anthracene	20	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 6.7	6.7	22		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 3.6	3.6	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.5	3.5	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 4.5	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 5.5	5.5	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.5	3.5	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	9.4	3.6	12		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Fluorene	58	4.3	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.2	3.2	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	22	5.0	17		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	120	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	32	3.1	10		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	51	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	52	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	62	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & J
Project Name : US OIL
Project Number :
Field ID : CS-4

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-004

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	73.1				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 4.1			4.1	1	mg/kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 4.1	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 4.3	4.3	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	< 4.1	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	< 4.9	4.9	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 7.3	7.3	24		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 4.9	4.9	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 4.2	4.2	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 6.0	6.0	20		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluorene	< 4.7	4.7	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.4	3.4	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	< 5.5	5.5	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	< 3.4	3.4	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	36	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	45	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	55	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-5

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-005

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	76.2				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 4.4			4.4	1	mg/Kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	9.6	4.0	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	13	4.1	14		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Acenaphthene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	< 4.7	4.7	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 7.0	7.0	23		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.7	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 4.7	4.7	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 5.7	5.7	19		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.6	3.6	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluorene	< 4.5	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.3	3.3	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	< 5.3	5.3	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	9.3	3.9	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Pyrene	3.6	3.2	11		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	57	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	57	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	62	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-6

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-006

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	75.2				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 4.5			4.5	1	mg/kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	11	4.0	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	16	4.2	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	< 4.7	4.7	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 7.0	7.0	23		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.7	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 4.7	4.7	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 4.1	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 5.8	5.8	19		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.7	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluorene	< 4.5	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.3	3.3	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	< 5.3	5.3	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	6.5	3.9	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Pyrene	< 3.3	3.3	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	75	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	72	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	78	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-7

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-007

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	71.6				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	120			4.7	1	mg/kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	37	4.2	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	48	4.4	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	11	4.1	14		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	5.8	5.0	17		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 7.4	7.4	25		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(gh)perylene	< 5.0	5.0	17		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 4.3	4.3	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 6.1	6.1	20		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.8	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	4.7	4.0	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Fluorene	16	4.8	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.5	3.5	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	9.7	5.6	19		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Phenanthrene	28	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	8.3	3.4	11		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	73	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	74	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	82	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-8

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-008

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	76.1				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	72			5.4	1	mg/kg	O	01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	160	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	260	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	38	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	9.0	3.8	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Anthracene	21	4.7	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	9.8	7.0	23		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	9.0	3.8	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	18	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	9.1	4.7	16		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	14	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	14	5.7	19		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.6	3.6	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	17	3.8	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluorene	69	4.5	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	7.7	3.3	11		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Naphthalene	59	5.3	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	120	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	39	3.2	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	76	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	69	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	77	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : CS-9

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-009

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	74.1				1	%		01/10/07	SM M2540G	SM M2540G

DIESEL RANGE ORGANICS

Preservation Date: 01/12/07 Prep Date: 01/12/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Diesel Range Organics	< 4.9			4.9	1	mg/kg		01/12/07	WI MOD DRO	WI MOD DRO

PAH/PNA

Prep Date: 01/15/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1-Methylnaphthalene	< 4.1	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
2-Methylnaphthalene	< 4.2	4.2	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Acenaphthylene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Anthracene	< 4.8	4.8	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)anthracene	< 7.2	7.2	24		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(a)pyrene	< 3.9	3.9	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(b)fluoranthene	3.8	3.8	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Benzo(ghi)perylene	< 4.8	4.8	16		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Benzo(k)fluoranthene	< 4.1	4.1	14		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Chrysene	< 5.9	5.9	20		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Dibenz(a,h)anthracene	< 3.7	3.7	12		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Fluoranthene	5.7	3.9	13		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Fluorene	< 4.6	4.6	15		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Indeno(1,2,3-cd)pyrene	< 3.4	3.4	11		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Naphthalene	< 5.4	5.4	18		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Phenanthrene	< 4.0	4.0	13		1	ug/Kg		01/15/07	SW846 3545	8270C-SIM
Pyrene	5.5	3.3	11		1	ug/Kg	Q	01/15/07	SW846 3545	8270C-SIM
Surrogate		LCL	UCL							
Nitrobenzene-d5	65	10	141		1	%		01/15/07	SW846 3545	8270C-SIM
2-Fluorobiphenyl	62	10	161		1	%		01/15/07	SW846 3545	8270C-SIM
Terphenyl-d14	68	29	150		1	%		01/15/07	SW846 3545	8270C-SIM

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I
Project Name : US OIL
Project Number :
Field ID : ES-1

Matrix Type : SOIL
Collection Date : 01/08/07
Report Date : 01/23/07
Lab Sample Number : 880034-010

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	85.3				1	%		01/10/07	SM M2540G	SM M2540G

PVOC

Prep Date: 01/11/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Benzene	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Ethylbenzene	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Toluene	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Xylene, m + p	< 50	50	120		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Xylene, o	< 25	25	60		50	ug/Kg		01/11/07	SW846 5030B	SW846 8021B
Surrogate		LCL	UCL							
a,a,a-Trifluorotoluene	100	80	119		1	%		01/11/07	SW846 5030B	SW846 8021B

**Pace Analytical
Services, Inc.**

Analytical Report Number: 880034

1241 Bellevue Street
Green Bay, WI 54302
920-469-2436

Client : SHAW E & I

Matrix Type : SOIL

Project Name : US OIL

Collection Date : 01/08/07

Project Number :

Report Date : 01/23/07

Field ID : ES-2

Lab Sample Number : 880034-011

INORGANICS

Test	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
Percent Solids	73.8				1	%		01/10/07	SM M2540G	SM M2540G

PVOC

Prep Date: 01/11/07

Analyte	Result	LOD	LOQ	EQL	Dil.	Units	Code	Anl Date	Prep Method	Anl Method
1,2,4-Trimethylbenzene	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
1,3,5-Trimethylbenzene	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Benzene	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Ethylbenzene	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Methyl-tert-butyl-ether	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Toluene	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Xylene, m + p	< 50	50	120		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Xylene, o	< 25	25	60		50	ug/Kg	O	01/11/07	SCREEN	SCREEN
Surrogate		LCL	UCL							
a,a,a-Trifluorotoluene	101	80	119		1	%		01/11/07	SCREEN	SCREEN

Lab Number	TestGroupID	Field ID	Comment
880034-001	DRO-S	CS-1	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-002	DRO-S	CS-2	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-003	DRO-S	CS-3	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-004	DRO-S	CS-4	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-005	DRO-S	CS-5	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-006	DRO-S	CS-6	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-007	DRO-S	CS-7	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-008	DRO-S	CS-8	Results for analysis taken from a sub sampled portion. This does not conform to required sampling techniques.
880034-008	DRO-S	CS-8	Front eluting peaks were present along with diesel peaks.
880034-011	PVOC-S-ME	ES-2	sample received overweight (20.8 grams).

Qualifier Codes

Flag	Applies To	Explanation
A	Inorganic	Analyte is detected in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
B	Inorganic	The analyte has been detected between the method detection limit and the reporting limit.
B	Organic	Analyte is present in the method blank. Method blank criteria is evaluated to the laboratory method detection limit. Additionally, method blank acceptance may be based on project specific criteria or determined from analyte concentrations in the sample and are evaluated on a sample by sample basis.
C	All	Elevated detection limit.
D	All	Analyte value from diluted analysis or surrogate result not applicable due to sample dilution.
E	Inorganic	Estimated concentration due to matrix interferences. During the metals analysis the serial dilution failed to meet the established control limits of 0-10%. The sample concentration is greater than 50 times the IDL for analysis done on the ICP or 100 times the IDL for analysis done on the ICP-MS. The result was flagged with the E qualifier to indicate that a physical interference was observed.
E	Organic	Analyte concentration exceeds calibration range.
F	Inorganic	Due to potential interferences for this analysis by Inductively Coupled Plasma techniques (SW-846 Method 6010), this analyte has been confirmed by and reported from an alternate method.
F	Organic	Surrogate results outside control criteria.
G	All	The result is estimated because the concentration is less than the lowest calibration standard concentration utilized in the initial calibration. The method detection limit is less than the reporting limit specified for this project.
H	All	Preservation, extraction or analysis performed past holding time.
HF	Inorganic	This test is considered a field parameter, and the recommended holding time is 15 minutes from collection. The analysis was performed in the laboratory beyond the recommended holding time.
J	All	Concentration detected equal to or greater than the method detection limit but less than the reporting limit.
K	Inorganic	Sample received unpreserved. Sample was either preserved at the time of receipt or at the time of sample preparation.
K	Organic	Detection limit may be elevated due to the presence of an unrequested analyte.
L	All	Elevated detection limit due to low sample volume.
M	Organic	Sample pH was greater than 2
N	All	Spiked sample recovery not within control limits.
O	Organic	Sample received overweight.
P	Organic	The relative percent difference between the two columns for detected concentrations was greater than 40%.
Q	All	The analyte has been detected between the limit of detection (LOD) and limit of quantitation (LOQ). The results are qualified due to the uncertainty of analyte concentrations within this range.
S	Organic	The relative percent difference between quantitation and confirmation columns exceeds internal quality control criteria. Because the result is unconfirmed, it has been reported as a non-detect with an elevated detection limit.
U	All	The analyte was not detected at or above the reporting limit.
V	All	Sample received with headspace.
W	All	A second aliquot of sample was analyzed from a container with headspace.
X	All	See Sample Narrative.
Z	Organics	This compound was separated in the check standard but it did not meet the resolution criteria as set forth in SW846.
&	All	Laboratory Control Spike recovery not within control limits.
*	All	Precision not within control limits.
+	Inorganic	The sample result is greater than four times the spike level; therefore, the percent recovery is not evaluated.
<	All	The analyte was not detected at or above the reporting limit.
1	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses passed QC based on precision criteria.
2	Inorganic	Dissolved analyte or filtered analyte greater than total analyte; analyses failed QC based on precision criteria.
3	Inorganic	BOD result is estimated due to the BOD blank exceeding the allowable oxygen depletion.
4	Inorganic	BOD duplicate precision not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
5	Inorganic	BOD result is estimated due to insufficient oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
6	Inorganic	BOD laboratory control sample not within control limits. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.
7	Inorganic	BOD result is estimated due to complete oxygen depletion. Due to the 48 hour holding time for this test, it is not practical to reanalyze and try to correct the deficiency.

Test Group Name	880034-001	880034-002	880034-003	880034-004	880034-005	880034-006	880034-007	880034-008	880034-009	880034-010	880034-011
DIESEL RANGE ORGANICS	B	B	B	B	B	B	B	B	B	B	
PAH/PNA	B	B	B	B	B	B	B	B	B	B	
PERCENT SOLIDS	B	B	B	B	B	B	B	B	B	B	B
PVOC										G	G

Code	Facility	Address	WI Certification
B	Green Bay Lab (Bellevue St)	1241 Bellevue Street, Suite 9 Green Bay, WI 54302	405132750 / DATCP: 105-444
G	Green Bay Lab (Industrial Dr)	1795 Industrial Drive Green Bay, WI 54302	405132750



Sample Condition Upon Receipt

Client Name: Shaw Project # 880034

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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



Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used NA Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature ROT Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LM 1-9-07
LM 1-9-07

		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.
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	
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. #010 (ES-1) & #011 (ES-2) Sample ID was not present on coc yet dates, time & matrix analysis were present. Sample ID added on coc by lab 1-9-07 LM
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
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: _____ Field Data Required? Y / N

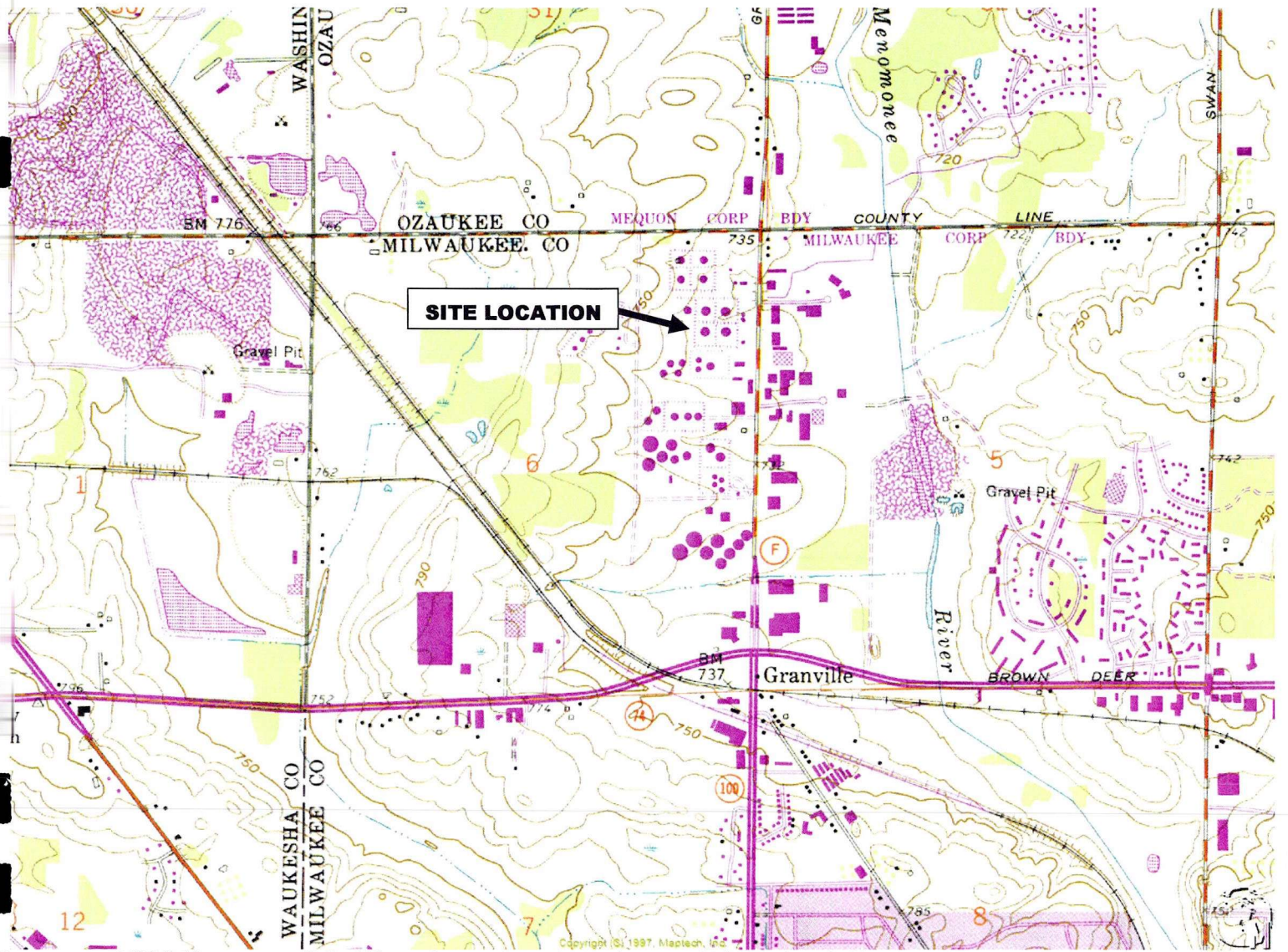
Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: lw Date: 1/10/07

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Figures



Source: USGS Menomonee Falls, Wisconsin 7.5-minute Series (topographic) Quadrangle Map
 Scale: 1:24,000
 Contour Interval 10 feet

SITE LOCATION

U.S. Oil, Co.
 521 N. 107th Street
 Milwaukee, Wisconsin
 Shaw Project No. 124913

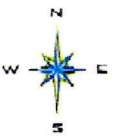
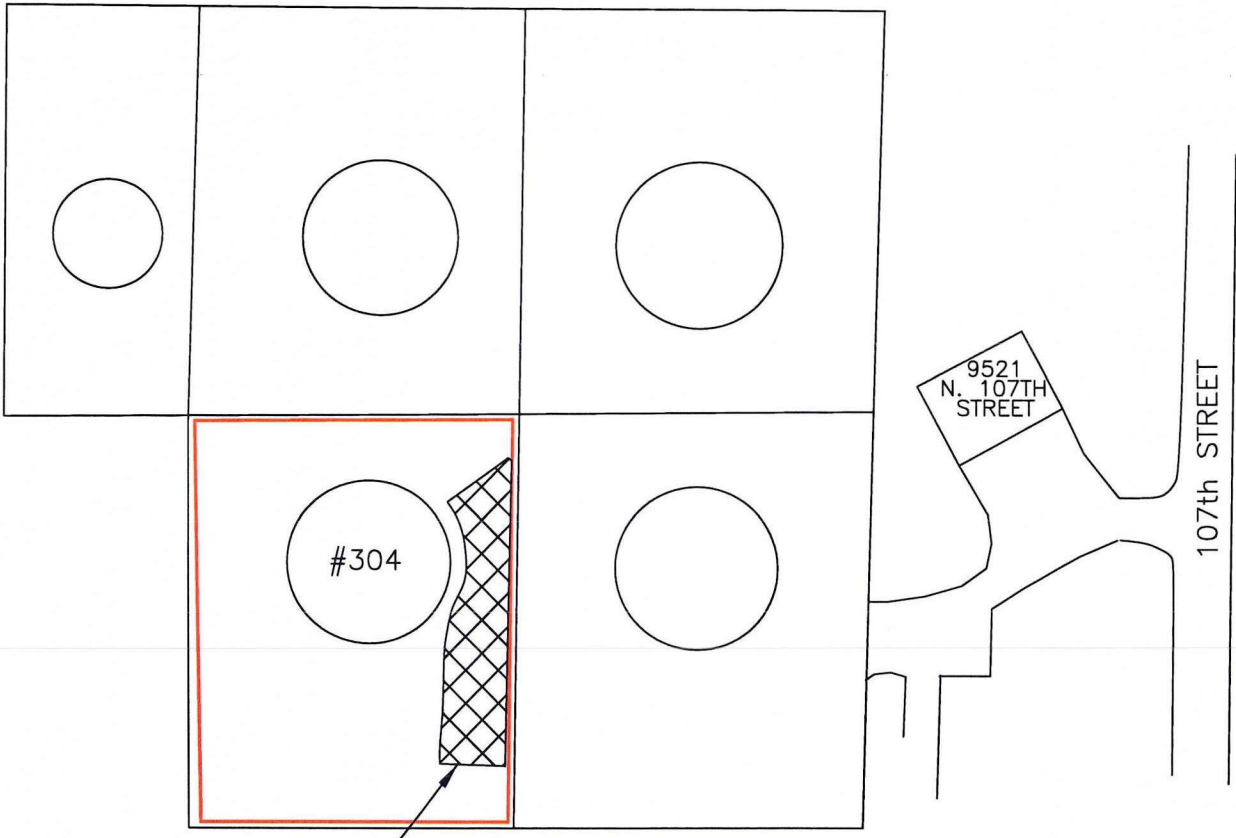


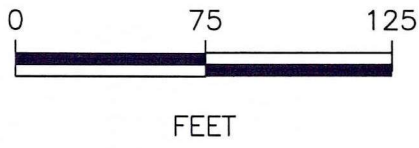
Figure No.
1


OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Milwaukee, WI	7/18/05	ATE	AJM			124913-02



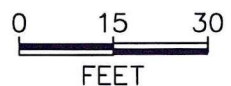
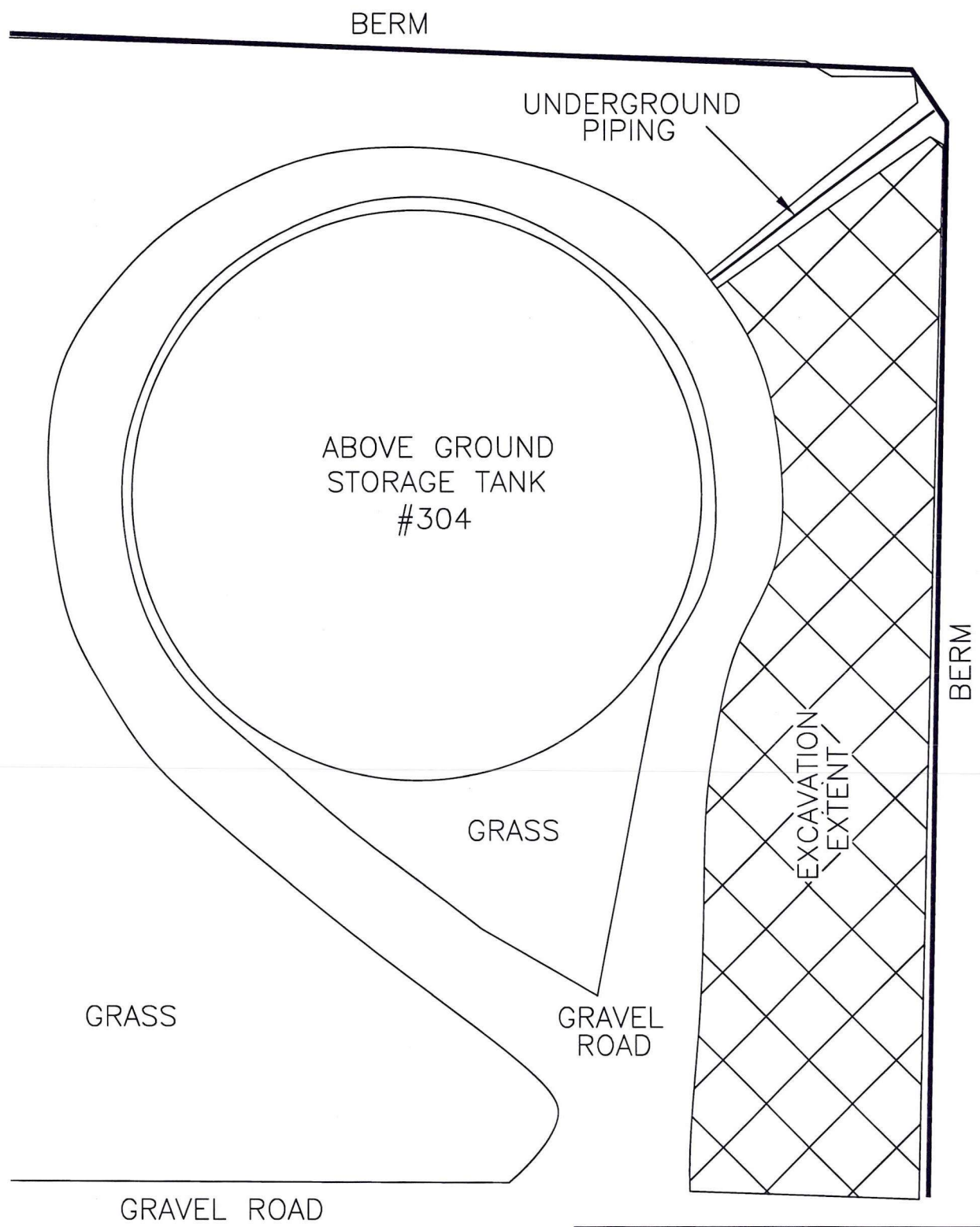
ESTIMATED EXTENT OF EXCAVATION

 ABOVE GROUND STORAGE TANK AREA OF EXCAVATION



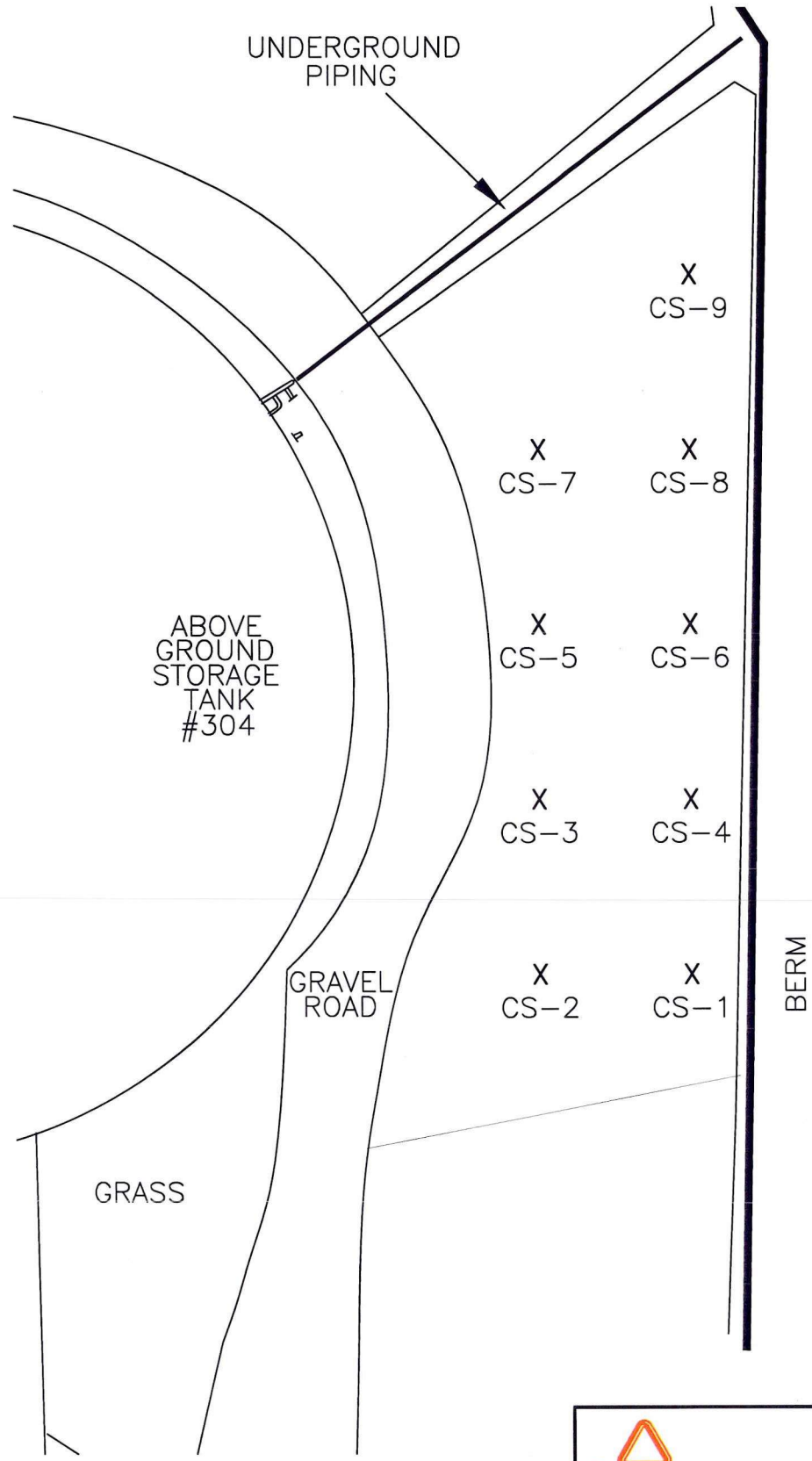

US OIL CO. INC. MILWAUKEE, WISCONSIN
FIGURE 2 SITE PLAN MAP 9154 N. 107TH STREET MILWAUKEE, WISCONSIN

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Milwaukee, WI	7/18/05	ATE	AJM			124913-03

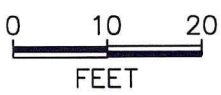


 Shaw Environmental, Inc.
US OIL CO. INC. MILWAUKEE, WISCONSIN
FIGURE 3 TANK EXCAVATION MAP 9154 N. 107TH STREET MILWAUKEE, WISCONSIN

OFFICE: Milwaukee, WI
 DATE: 7/18/05
 DESIGNED BY: ATE
 DRAWN BY: AJM
 CHECKED BY:
 APPROVED BY:
 DRAWING NUMBER: 124913-04

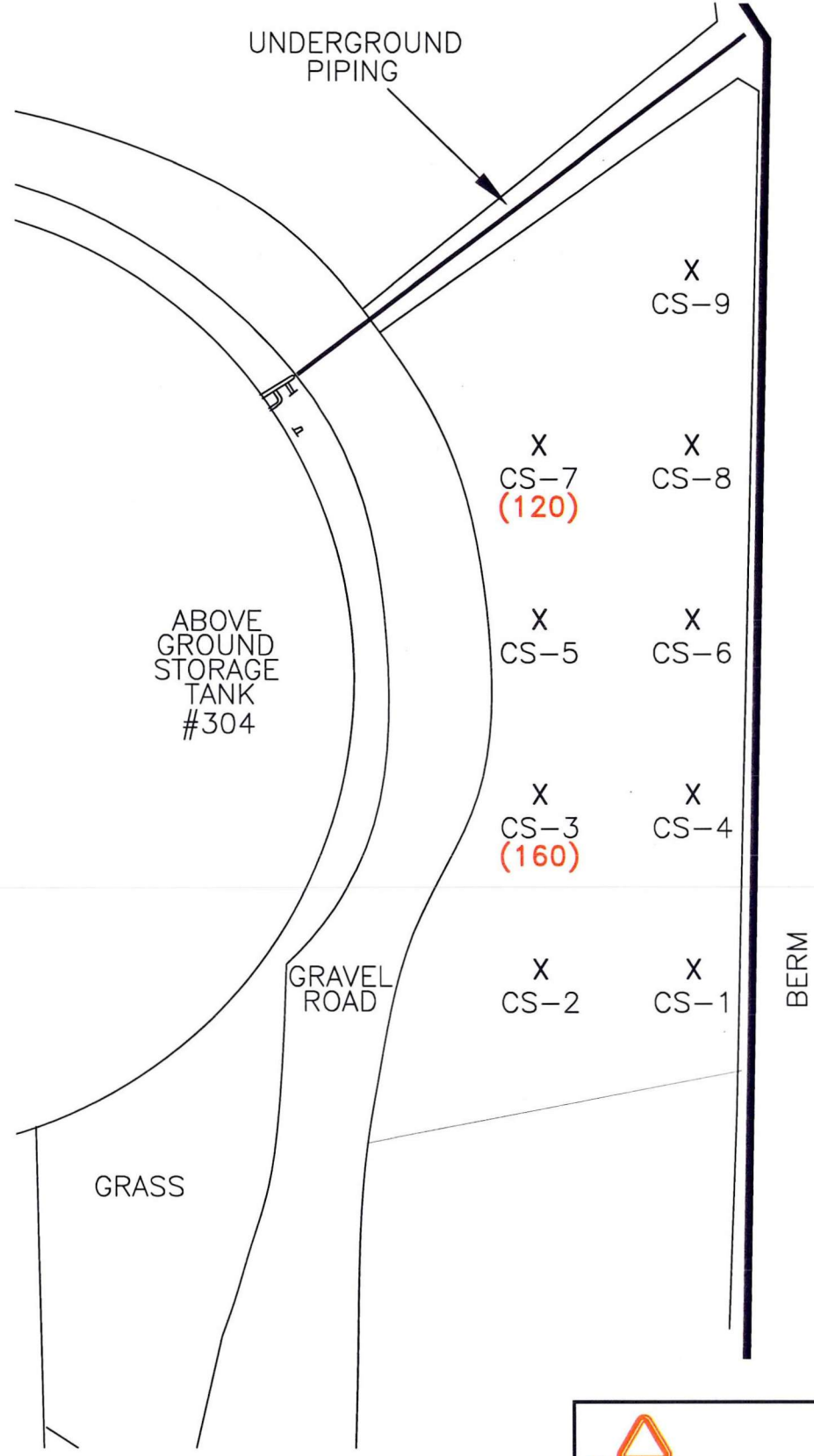


LEGEND
 X SOIL SAMPLING LOCATION



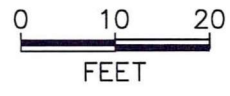
US OIL CO. INC. MILWAUKEE, WISCONSIN
FIGURE 4 SOIL SAMPLING LOCATION MAP 9154 N. 107TH STREET MILWAUKEE, WISCONSIN


OFFICE Milwaukee, WI
 DATE 7/18/05
 DESIGNED BY ATE
 DRAWN BY AJM
 CHECKED BY
 APPROVED BY
 DRAWING NUMBER 124913-05



LEGEND

- X SOIL SAMPLING LOCATION
- (120) DRO CONCENTRATION
- DRO = DIESEL RANGE ORGANICS
- DRO RESULTS EXPRESSED IN MG/KG
- RED/BOLD=WISCONSIN ADMINISTRATIVE CODE NR 720.09 GENERIC RESIDUAL CONTAMINANT LEVEL (RCL) EXCEEDENCE**





US OIL CO. INC.
MILWAUKEE, WISCONSIN

**FIGURE 5
SOIL QUALITY MAP**

9154 N. 107TH STREET
MILWAUKEE, WISCONSIN

Tables

Summary of Detected Soil PAH Results
 US Oil Co., Inc.
 9154 N. 107th Street
 Milwaukee, Wisconsin

Boring/Well Number		NR 720.0	RR-519-97 Table 1		CS-1	CS-2	CS-3	CS-4	CS-5	CS-6	CS-7	CS-8	CS-9	
Sample Date		Generic	Groundwater	Direct Contact	1/8/2007	1/8/2007	1/8/2007	1/8/2007	1/8/2007	1/8/2007	1/8/2007	1/8/2007	1/8/2007	
Sample Depth	Units	RCLs	Pathway	Non-Ind	Industrial	3-4'	3-4'	3-4'	3-4'	3-4'	3-4'	3-4'	3-4'	
Diesel Range Organics (DRO)	mg/kg	100/250	NES	NES	NES	<5.3	<5.6	160	<4.1	<4.4	<4.5	120	72	<4.9
1-Methylnaphthalene	µg/kg	NES	<i>23000</i>	1100000	<u>70000000</u>	<3.8	<4.2	140	<4.1	9.6 Q	11 Q	37	160	<4.1
2-Methylnaphthalene	µg/kg	NES	<i>20000</i>	600000	<u>40000000</u>	<3.9	<4.4	180	<4.3	13 Q	16	48	260	<4.2
Acenaphthene	µg/kg	NES	<i>38000</i>	900000	<u>60000000</u>	<3.7	<4.2	43	<4.1	<3.9	<4.0	11 Q	38	<4.0
Acenaphthylene	µg/kg	NES	<i>700</i>	18000	<u>360000</u>	<3.6	<4.0	8.1 Q	<3.9	<3.8	<3.8	<4.0	9.0 Q	<3.9
Anthracene	µg/kg	NES	<i>3000000</i>	5000000	<u>300000000</u>	<4.5	<5.0	20	<4.9	<4.7	<4.7	5.8 Q	21	<4.8
Benzo(a)anthracene	µg/kg	NES	<i>17000</i>	88	<u>3900</u>	<6.6	<7.4	<6.7	<7.3	<7.0	<7.0	<7.4	9.8 Q	<7.2
Benzo(a)pyrene	µg/kg	NES	<i>48000</i>	8.8	<u>390</u>	<3.6	<4.0	<3.6	<3.9	<3.8	<3.8	<4.0	9.0 Q	<3.9
Benzo(b)fluoranthene	µg/kg	NES	<i>360000</i>	88	<u>3900</u>	<3.5	<3.9	<3.5	<3.8	<3.7	<3.7	<3.9	18	3.8 Q
Benzo(ghi)perylene	µg/kg	NES	<i>6800000</i>	1800	<u>39000</u>	<4.5	<5.0	<4.5	<4.9	<4.7	<4.7	<5.0	9.1 Q	<4.8
Benzo(k)fluoranthene	µg/kg	NES	<i>870000</i>	880	<u>39000</u>	<3.8	<4.3	<3.8	<4.2	<4.0	<4.1	<4.3	14	<4.1
Chrysene	µg/kg	NES	<i>37000</i>	8800	<u>390000</u>	<5.5	<6.1	<5.5	<6.0	<5.7	<5.8	<6.1	14 Q	<5.9
Dibenz(a,h)anthracene	µg/kg	NES	<i>38000</i>	8.8	<u>390</u>	<3.5	<3.9	<3.5	<3.8	<3.6	<3.7	<3.8	<3.6	<3.7
Fluoranthene	µg/kg	NES	<i>500000</i>	600000	<u>40000000</u>	<3.6	<4.0	9.4 Q	<3.9	<3.8	<3.8	4.7 Q	17	5.7 Q
Fluorene	µg/kg	NES	<i>100000</i>	600000	<u>40000000</u>	<4.3	<4.8	58	<4.7	<4.5	<4.5	16	69	<4.6
Indeno(1,2,3-cd)pyrene	µg/kg	NES	<i>680000</i>	88	<u>3900</u>	<3.2	<3.5	<3.2	<3.4	<3.3	<3.3	<3.5	7.7 Q	<3.4
Naphthalene	µg/kg	NES	<i>400</i>	20000	<u>110000</u>	<5.0	<5.6	22	<5.5	<5.3	<5.3	9.7 Q	59	<5.4
Phenanthrene	µg/kg	NES	<i>1800</i>	18000	<u>390000</u>	<3.7	<4.1	120	<4.0	9.3 Q	6.5 Q	28	120	<4.0
Pyrene	µg/kg	NES	<i>8700000</i>	500000	<u>30000000</u>	<3.1	<3.4	32	<3.4	3.6 Q	<3.3	8.3 Q	39	5.5 Q

NOTES:
 PAH = Polycyclic Aromatic Hydrocarbons
 µg/kg = micrograms per kilogram
 CS = Confirmation Sample from excavation bottom
 Q = analyte detected between the limit of detection (LOD) and limit of quantitation (LOQ)
Blue/Italic = RR-519-97 Table 1 (suggested groundwater pathway RCL) exceedence
Red/Bold = RR-519-97 Table 1 (suggested non-industrial direct contact pathway RCL) exceedence
Green/Underline = RR-519-97 Table 1 (suggested industrial direct contact pathway RCL) exceedence