Endpoint Solutions

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August 20, 2012

Ms. Victoria Stovall, Environmental Program Associate
Remediation and Redevelopment Program
Wisconsin Department of Natural Resources
2300 N. Martin Luther King Drive
Milwaukee, WI 53212

Subject: **U.S. Oil Milwaukee South Terminal**
9135 N. 107th Street, Milwaukee, Wisconsin
WDNR BRRTS #03-41-558241
WDNR FID #241053560

Dear Ms. Stovall:

Attached is the *Soil and Groundwater Investigation Report*, which summarizes the subsurface investigation work performed by Endpoint Solutions Corp. (Endpoint) in response to the 2011 release near the piping manifold area at the site.

To fully delineate the extent of the subsurface impacts, Endpoint has proposed to perform supplemental investigative activities, followed by quarterly groundwater monitoring. When this next phase of the project has been completed, Endpoint will submit the proper documentation to the applicable regulatory agency.

If you have any questions, require additional information, or need any clarifications related to this project, please do not hesitate to call me at 414-427-1200 (office) or 414-897-3237 (cell).

Sincerely,

Endpoint Solutions

Mark J.K. Penzkover, P.E.
Principal

Cc: Mr. Don Johnston, U.S. Venture, Inc.

Soil and Groundwater Investigation Report – Manifold Area

US Oil Milwaukee South Terminal
9135 North 107th Street
Milwaukee, Wisconsin

BRRTS #: 03-41-558241
FID #: 241053560

Prepared By:

Endpoint Solutions Corporation
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Prepared For:

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425 Better Way
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July 26, 2012

Endpoint Solutions

Soil and Groundwater Investigation Report - Manifold Area

US Oil Milwaukee South Terminal
Milwaukee, Wisconsin

FOR:

U.S. Venture, Inc.
425 Better Way
Appleton, WI 54915

July 26, 2012

TABLE OF CONTENTS

TABLE OF CONTENTS
(Continued)

TABLES

FIGURES

APPENDICES

Certifications

"I, Mark Penzkover, hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

ENGINEER E-34455

Signature, title and P.E. number

P.E. stamp

"I, Kirk Kapfhammer, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Principal PG 1239

Signature, title and P.G. number

P.G. stamp

1.0 Introduction

1.1 Background

Endpoint Solutions Corp. (Endpoint) was retained by U.S. Venture, Inc. (US Venture) to perform subsurface investigation activities at the U.S. Oil Milwaukee South Terminal located at 9135 North 107th Street in Milwaukee, Wisconsin (the "Site"). The location of the Site is depicted on ***Figure 1****.*

This Site investigation was performed in response to gasoline leak from an underground pipe. Immediately after the suspected leaking pipe was identified, it was isolated from the aboveground storage tank (AST) that it was connected to by installing a flange blank. On June 22, 2011 during excavation activities to uncover the suspected leaking pipe, a cracked 1-inch pipe coming off of the underground 10-inch pipe was discovered. The 1-inch pipe was removed and the opening into the 10-inch pipe was plugged. Following the repair, the 10-inch line was tightness tested and the test indicated that the repaired pipe had no leaks. The release was reported to the Wisconsin Department of Natural Resources (WDNR) in a August 1, 2011 letter from US Venture.

On August 24, 2011 Endpoint collected excavation sidewall and bottom soil samples, along with a soil sample from the soil stockpile. All soils were combined and the composite sample was submitted to Synergy Environmental Lab, Inc. (Synergy) of Appleton, Wisconsin for laboratory analysis. Soil analytical results are included in ***Appendix B****. A report summarizing these activities was submitted to the WDNR in September 2011. Endpoint assisted with landfill waste approval and US Venture coordinated the proper soil disposal.*

This report is prepared to document the subsurface investigation and groundwater monitoring that has occurred since August 2011.

1.2 Site Location and Ownership

The US Oil Milwaukee South Terminal is located at 9135 North 107th Street in Milwaukee, Wisconsin. The Site occupies a portion of the northeast quarter (NW ¼) of the southeast

quarter (SW ¼) of Section 6, Township 8 North, Range 21 East. The Site is situated on the west side of 107th Street.

The responsible party contact for the Site is:

Mr. Don Johnston
U.S. Venture, Inc.
425 Better Way
Appleton, WI 54915
Phone: (920) 735-8228

1.3 Consultant Identification

The Site investigation and groundwater monitoring activities were performed by:

Endpoint Solutions Corp.
12065 West Janesville Road, Suite 300
Hales Corners, WI 53130
Phone: (414) 427-1200

1.4 Physical Settings

Land use at the Site consists of bulk petroleum storage and distribution. Bulk petroleum product is stored in six (6) ASTs at the Site. The Site is surrounded to the north, west and south by other bulk petroleum terminals. To the east, the Site is bounded by commercial & industrial properties. The location of the Site is depicted on ***Figure 1****. The Site layout is depicted on* ***Figure 2*** *and* ***Figure 3****.*

1.5 Geological and Hydrogeological Settings

Based on subsurface information collected during previous investigations performed at the Site, soils at the Site consist primarily of brown to gray mottled, stiff to hard silty clay. Dolomite bedrock is expected to be encountered at depths greater than 100 feet below the ground surface (bgs).

Groundwater is present less than ten (10) feet bgs and according to onsite groundwater elevation data. Shallow groundwater flows towards the northeast.

2.0 Remedial Investigation Procedures

2.1 Soil Investigation Procedures

Due to the numerous subsurface product lines between the manifold and the truck loading rack, and prior to the subsurface investigation, Site personnel arranged for the hydro-excavating of the five (5) boring locations. Endpoint was on Site and each boring location was hydro-excavated to approximately five (5) feet below the ground surface (bgs).

On December 2, 2011, Endpoint directed the advancement of five (5) direct-push soil borings (B-1 through B-5) in the vicinity of the piping manifold to fifteen (15) feet bgs, see ***Figure 2*** *and* ***Figure 3****. The soil borings were completed in the bore holes previously hydro-excavated.*

Soil profile samples were continuously collected from five (5) feet bgs through the length of the borings. Soils were described in the field for soil type, color, texture, moisture content, obvious staining and odors. One (1) soil sample from each boring location was submitted for laboratory analysis of volatile organic compounds (VOCs), gasoline range organics (GRO), diesel range organics (GRO) and polycyclic aromatic hydrocarbons (PAHs). Laboratory analysis was completed by Synergy in Appleton, Wisconsin.

In general, the soil profile consisted of a plastic tan to brown, silty clay with a trace of fine sand, with a color change to dark brown or gray ranging from thirteen (13) to fourteen (14) feet bgs. Copies of the Soil Boring Logs are attached in ***Appendix A****.*

2.2 Groundwater Investigation Procedures

Three (3) of the five (5) soil borings were converted to Wisconsin Administrative Code (WAC) Chapter NR 141 groundwater monitoring wells, B-1 to MW-100, B-3 to MW-101 and B-5 to MW-102. The locations of the monitoring wells are depicted on ***Figure 2*** *and* ***Figure 3****.*

Each of the wells were constructed with two-inch (2") diameter PVC with a ten (10) foot section of No. 10 slotted screen. To facilitate well installation, the direct-push borings were over drilled with 6.25-inch hollow-stem augers to a depth of fifteen (15) feet bgs. MW-100 was completed

with a protective pipe and MW-101 and MW-102 were completed as flush-mount wells. Copies of the Monitoring Well Construction forms are attached in ***Appendix A****.*

Per the requirements of WAC Chapter NR 141, the monitoring wells were developed to remove sediments from the drilling process and to induce flow from the surrounding formation into the well screen. Copies of the Monitoring Well Development forms are attached in ***Appendix A****. Following development, groundwater samples were collected and submitted to Synergy for VOCs and PAH analysis.*

The top of well casings were vertically surveyed into the existing on Site monitoring well network, elevations are presented on ***Table 3****.*

2.3 Laboratory Analytical Samples

All of the soil and groundwater samples collected were submitted to Synergy for analysis under standard chain-of-custody procedures. The soil samples were analyzed using Wisconsin DRO95 and GRO95/8021 along with EPA Methods 8260B and M8270D. Synergy is a WDNR certified laboratory (#445037560).

2.4 Investigative Wastes

Soil cuttings produced during the direct-push soil borings and the installation of the monitoring wells were placed into 55-gallon steel drums for disposal by US Venture. Purge water produced during the development and sampling process was disposed through the on Site oil-water separator system associated with the load rack.

3.0 Applicable Cleanup Criteria

3.1 Soil

WAC Chapter NR 720 establishes generic residual contaminant levels (RCLs) for several petroleum-related compounds. The established soil cleanup standards for GRO and DRO contaminated soil are 100 milligrams per kilogram (mg/kg) for "permeable soils" and 250 mg/kg for "less permeable soils". "Permeable soils" are defined as having a saturated hydraulic conductivity greater than 1 x 10^{-6} centimeters per second (cm/sec), whereas "less permeable soils" are those with a saturated hydraulic conductivity less than 1 x 10^{-6} cm/sec. Applying these guidelines, the Site is considered to be composed of "permeable soils".

For sites exceeding the generic RCLs above, WAC Chapter NR 720 Table 1 establishes RCLs for specific petroleum related compounds.

WAC Chapter NR 720 Table 1

Substance	***RCL (ug/kg)***
Benzene	*5.5*
1,2-Dichloroethane	*4.9*
Ethylbenzene	*2,900*
Toluene	*1,500*
Total Xylenes	*4,100*

ug/kg = micrograms per kilogram

These generic RCLs are conservative concentrations generally considered to be protective of groundwater quality in Wisconsin.

WAC Chapter NR 746.06 Table 1 establishes soil screening levels (SSLs) intended to be indicative of residual petroleum product in soil pores.

WAC Chapter NR 746.06 Table 1

Substance	***SSL (mg/kg)***
Benzene	*8.5*
1,2-Dichloroethane	*0.6*
Ethylbenzene	*4.6*
Toluene	*38*
Xylene	*42*
1,2,4-Trimethylbenzene	*83*
1,3,5-Trimethylbenzene	*11*
Naphthalene	*2.7*

mg/kg = milligrams per kilogram

In addition, risk-based cleanup concentrations protective of human health from direct contact have also been established for benzene and 1,2-dichloroethane in Table 2 of WAC Chapter NR 746.06. These concentrations are only applicable for cleanup of soil within four (4) feet of the ground surface.

WAC Chapter NR 746.06 Table 2

Substance	***Concentration (mg/kg)***
Benzene	*1.10*

1,2-Dichloroethane	*0.54*

3.2 Groundwater

WAC Chapter NR 140 establishes standards for groundwater quality through the use of preventive action limits (PALs) and enforcement standards (ESs). DRO and GRO do not currently have an established standards. A PAL exceedance is an indicator of elevated contaminant concentrations, but does not necessarily require corrective action, whereas ES exceedances typically require some action to address groundwater quality. Note the Table below is not a comprehensive list of all values listed in WAC Chapter NR 140 Table 1, only substances identified on this Site.

WAC Chapter NR 140 Table 1

VOC Substance	***PAL (ug/L)***	***ES (ug/L)***
Benzene	*0.5*	*5*
Ethylbenzene	*140*	*700*
Methyl tertiary butyl ether (MTBE)	*12*	*60*
Naphthalene	*10*	*100*
Toluene	*160*	*800*
Total Tri-methylbenzene	*96*	*480*
Total Xylene's	*400*	*2,000*

µg/L = micrograms per liter

4.0 Discussion of Results

4.1 Soil Sampling Results

Results of the soil sampling were compared to the values published in WAC Chapter NR 746.06 Table 1 – Indicators of Residual Petroleum Product in Soil Pores and WAC Chapter NR 746.06 Table 2 – Protection of Human Health from Direct Contact with Contaminated Soil.

All of the soil samples submitted for laboratory analysis contained elevated concentrations of multiple VOCs and PAHs. However, only one (1) of the five (5) samples submitted contained a concentration of DRO and four (4) of the five (5) samples submitted contained a concentration of GRO above the 100 mg/kg the cleanup criteria established.

Only one (1) sample (B-4) contained a concentration of benzene of 23,400 µg/kg, well in excess of the WAC Chapter NR 746.06 Table 1 value of 8,500 µg/kg. The other four (4) samples (B-1, B-2, B-3 and B-5) contained benzene concentrations ranging from 1,140 to 4,600 µg/kg, in excess of the WAC Chapter NR 746.06 Table 1 value of 5.5 µg/kg and the WAC Chapter NR 746.06 Table 2 value of 1,100 µg/kg.

The results are similar for ethylbenzene (2,900 to 36,000 µg/kg) and total xylenes (6,200 to 161,000 µg/kg). While the concentrations of naphthalene, toluene and 1,3,5-trimethylbenzene in B-3, B-4 and B-5 were detected above published standards, concentrations in B-1 and B-2 were not above the standards.

GRO was detected in B-1 at 80 mg/kg and ranged from 100 to 1,100 ug/kg in B-2, B-3, B-4 and B-5, all above the NR 720.09 value of 100 mg/kg. DRO was detected in B-2, B-4 at less than (<) 100 mg/kg and in B-3 at 277 mg/kg.

The highest concentration of GRO and VOCs was detected in the soil sample collected from soil boring B-4. A summary of the soil results is presented on ***Table 1*** *and* ***Table 2****. Soil Analytical Results – December 2011 are depicted on* ***Figure 4*** *and copies of the soil analytical results are attached in* ***Appendix B****.*

4.2 Groundwater Sampling Results

Groundwater samples were collected from each of the three (3) monitoring wells and analyzed for VOCs and PAHs, with the results then compared to the PALs and ESs listed in WAC Chapter NR 140. Based on laboratory analytical results, the following has been revealed:

- *All three (3) monitoring wells have detections above the WAC Chapter NR140 PALs and ESs.*
- *The groundwater samples collected from monitoring well MW-100 have elevated concentrations of benzene, ethylbenzene, naphthalene, total trimethylbenzene and total xylenes.*
- *The groundwater samples collected from monitoring well MW-101 have elevated concentrations of benzene, ethylbenzene, MTBE, naphthalene, toluene, total trimethylbenzene and total xylenes.*
- *The groundwater samples collected from monitoring well MW-102 have elevated concentrations of benzene, ethylbenzene, MTBE, naphthalene, toluene, total trimethylbenzene and total xylenes.*
- *Groundwater elevations are presented on **Table 3** and Monitoring Well Groundwater Results - March 2012 are presented on **Table 4.** Groundwater Flow Direction - March 2012 is depicted on **Figure 5**, Groundwater Analytical Results – March 2012 are depicted on **Figure 6** and Benzene Isoconcentration Contour – March 2012 is depicted on **Figure 7**. Copies of groundwater analytical reports are included in **Appendix C**.*

5.0 Evaluation of Risk Screening Criteria

To evaluate sites that are possibly eligible for closure and to determine if further action is required, WAC Chapter NR 746.06(2) requires evaluation of risk criteria for screening sites. The risk screening criteria (bold) followed by Endpoint's evaluation of each of these criteria is present below. Data collected by Endpoint and others, where applicable, were utilized to complete the risk assessment.

1. ***None of the following environmental factors are present at the Site:***

   a. ***Documented expansion of plume margin.***

      Insufficient time, I.E. two (2) quarters, has elapsed to adequately assess or documented expansion of plume margin based on the groundwater data collected to date.

   b. ***Verified contaminant concentrations in a private or public potable well that attains or exceeds the preventative action limit.***

      Based on current and previous onsite investigations, the plume of contaminants has not migrated offsite and therefore has not impacted any private or potable wells.

   c. ***Contamination within bedrock or within 1 meter (3.28 ft) of bedrock.***

      Bedrock was not encountered during the Site investigation. Data from previous investigations at the Site indicate bedrock is present at more than 100 feet bgs.

d. ***Petroleum product that is not in the dissolved phase is present with a thickness of 0.01 feet or more, and has been verified by more than one sampling event.***

Free-phase petroleum product was not observed in any of the monitoring wells.

e. ***Documented contamination discharges to a surface water or wetland.***

There are no documented discharges to surface water bodies or wetlands.

2. ***No soil contamination is present at the Site that exceeds any of the soil screening levels in WAC Chapter NR 746.06 Table 1.***

Soil samples collected from all five (5) soil boring locations contained concentrations of several constituents in excess of the WAC Chapter NR 746.06 Table 1 Indicators of residual Petroleum Product in Soil Pores.

3. ***There is no soil contamination within four (4) feet of the ground surface that exceeds any of the direct contact soil contaminant concentrations for the substances listed in WAC Chapter NR 746.06 Table 2.***

Due to a multitude of subsurface product pipes between the manifold and the load rack, the boring locations were hydro excavated to a depth of five (5) feet bgs. Therefore, no soils samples were collected from the zero (0) to four (4) foot interval.

4. ***For substances not listed in WAC Chapter NR 746.06 Table 2 that are present within four (4) feet of the ground surface and have been approved by the agency with administrative authority for the Site as contaminants of concern as defined in WAC Chapter NR 720.03(2), any potential human health risk from direct contact has been addressed.***

Due to a multitude of subsurface product pipes between the manifold and the load rack, the boring locations were hydro excavated to a depth of five (5) feet bgs. Therefore, no soils samples were collected from the zero (0) to four (4) foot interval.

5. ***Except for the substances listed in WAC Chapter NR 746.06 Table 2, there is no human health risk from direct contact for a substance listed in Table 1 if the substance concentration is below the Table 1 SSL.***

   Soil samples collected from all five (5) soil boring locations contained concentrations of several constituents in excess of the WAC Chapter NR 746.06 Table 1 Indicators of Residual Petroleum Product in Soil Pores

6. ***If there are petroleum-product contaminants in soil or groundwater, the most recent release that caused or contributed to the contamination is more than 10 years old.***

   The release being investigated was discovered in June 2011as the result of a gasoline leak from an underground pipe.

7. ***There is no evidence of migration of petroleum product contamination within a utility corridor or within a permeable material or soil along which vapors, free product or contaminated water may flow.***

   The release occurred within the piping manifold with multiple subsurface pipes leading to the load rack.

8. ***There is no evidence of migration or imminent migration of petroleum product contamination to building foundation drain tile, sumps or other points of entry into a basement or other enclosed structure where petroleum vapors could collect and create odors or an adverse impact on indoor air quality or where the contaminants may pose an explosion hazard.***

   All enclosed terminal structures should be evaluated for vapor intrusion..

9. ***No enforcement standard is attained or exceeded in any groundwater within 1000 feet of a well operated by a public utility, as defined in s.196.01(5) Stats., or within 100 feet of any other well used to provide water for human consumption.***

No public well has been identified within 1,000 feet of the Site and no private wells providing water for human consumption have been identified within 100 feet of the Site. Two (2) private wells are located at the northeast and southeast corners of the load rack, these wells are not used for human consumption.

6.0 Conclusions and Recommendations

6.1 Conclusions

Endpoint has collected two (2) rounds of groundwater samples from MW-100, MW-101 and MW-102. All groundwater samples have been laboratory analyzed for VOCs and PAHs. The sampling began in December 2011 with the most recent round in March 2012.

Based on the results of the groundwater sampling events, the most highly impacted groundwater is present at monitoring well MW-101 and MW-102, followed by the groundwater in monitoring well MW-100. Over the course of two (2) sampling events, the shallow groundwater is generally flowing in a northeasterly direction.

The following WAC Chapter NR 140 water quality criteria were identified at the Site during the March 2012 sampling event:

1. *NR 140 PAL exceedances were detected in monitoring wells MW-100, MW-101 and MW-102; and,*
2. *NR 140 ES exceedances were detected in monitoring wells MW-100, MW-101 and MW-102.*

6.2 Recommendations

Endpoint recommends the installation of three (3) additional downgradient groundwater monitoring wells. One (1) approximately 50-feet to the north of MW-102, one (1) approximately 60-feet to the northeast of MW-102, and one (1) approximately 60-feet to the east of MW-101. The purpose of these three (3) monitoring wells will be to determine the extent of the plume in the northeasterly groundwater flow direction. These proposed locations are shown on ***Figure 2*** *and* ***Figure 3****.*

Following installation of the three (3) additional monitoring wells, we recommend groundwater samples from the six (6) Site monitoring wells be collected and analyzed for eight (8)

consecutive quarters. Endpoint further recommends that the analytical analysis program be modified from VOCs and PAHs to PVOC plus naphthalene and PAHs.

During installation of the new monitoring wells, Endpoint recommends collection of soil samples from the zero (0) to four (4) foot bgs interval to begin addressing the direct contact issue along with the interval exhibiting the highest PID reading or just above the Site water table. Soil samples should be submitted for GRO, DRO, PVOCs and PAHs.

Additionally, Endpoint recommends that the terminal office and storage shed nearest the release be evaluated for vapor intrusion.

If the results of the groundwater sampling after eight (8) consecutive quarters indicate stable or decreasing contaminant concentration trends based on WDNR Mann-Whitney U Statistical analysis, a closure request would be submitted to the WDNR at that time.

If the concentration trends are increasing or inconclusive, Endpoint will make additional recommendations based on available groundwater data.

TABLES

Table 1
Soil Analytical Results Summary - VOCs
December 2011
Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

	Soil Boring Identification					Cleanup Criteria			
Parameter	B-1 8-10'	B-2 9-11'	B-3 9-11'	B-4 9-11'	B-5 9-11'	NR 720.09 (4)(a) 2	NR 720 Table 1	NR 746.06 Table 1	NR 746.06 Table 2
DRO (mg/kg)									
Diesel Range Organics	<10	**17.2**	**277**	**50**	<10	100	-----	-----	-----
GRO (mg/kg)									
Gasoline Range Organics	**80**	**100**	**136**	**1,100**	**126**	100	-----	-----	-----
VOC's (ug/kg)									
Benzene	***1,140***	***2,250***	***1,820***	***23,400***	***4,600***	-----	5.5	8,500	***1,100***
Bromobenzene	<140	<140	<140	<140	<140	-----	-----	-----	-----
Bromodichloromethane	<120	<120	<120	<120	<120	-----	-----	-----	-----
Bromoform	<200	<200	<200	<200	<200	-----	-----	-----	-----
tert-Butylbenzene	<540	<540	<540	<540	<540	-----	-----	-----	-----
sec-Butylbenzene	<510	<510	**730 J**	**1,990**	<510	-----	-----	-----	-----
n-Butylbenzene	**540 J**	**1,020 J**	**1,390 J**	**7,000**	**820 J**	-----	-----	-----	-----
Carbon Tetrachloride	<120	<120	<120	<120	<120	-----	-----	-----	-----
Chlorobenzene	<94	<94	<94	<94	<94	-----	-----	-----	-----
Chloroethane	<1420	<1420	<1420	<1420	<1420	-----	-----	-----	-----
Chloroform	<460	<460	<460	<460	<460	-----	-----	-----	-----
Chloromethane	<2070	<2070	<2070	<2070	<2070	-----	-----	-----	-----
2-Chlorotoluene	<840	<840	<840	<840	<840	-----	-----	-----	-----
4-Chlorotoluene	<760	<760	<760	<760	<760	-----	-----	-----	-----
1,2-Dibromo-3-chloropropane	<770	<770	<770	<770	<770	-----	-----	-----	-----
Dibromodichloromethane	<95	<95	<95	<95	<95	-----	-----	-----	-----
1,4-Dichlorobenzene	<520	<520	<520	<520	<520	-----	-----	-----	-----
1,3-Dichlorobenzene	<530	<530	<530	<530	<530	-----	-----	-----	-----
1,2-Dichlorobenzene	<510	<510	<510	<510	<510	-----	-----	-----	-----
Dichlorodifluoromethane	<120	<120	<120	<120	<120	-----	-----	-----	-----
1,2-Dichloroethane	<130	<130	<130	<130	<130	-----	4.9	600	***540***
1,1-Dichloroethane	<110	<110	<110	<110	<110	-----	-----	-----	-----
1,1-Dichloroethene	<220	<220	<220	<220	<220	-----	-----	-----	-----
cis-1,2-Dichloroethene	<140	<140	<140	<140	<140	-----	-----	-----	-----
trans-1,2-Dichloroethene	<220	<220	<220	<220	<220	-----	-----	-----	-----
1,2-Dichloropropane	<110	<110	<110	<110	<110	-----	-----	-----	-----
2,2-Dichloropropane	<330	<330	<330	<330	<330	-----	-----	-----	-----
1,3-Dichloropropane	<110	<110	<110	<110	<110	-----	-----	-----	-----
Di-isopropyl ether	<470	<470	<470	<470	<470	-----	-----	-----	-----
1,2-Dibromoethane (EDB)	<170	<170	<170	<170	<170	-----	-----	-----	-----
Ethylbenzene	***2,900***	***3,800***	***3,600***	***36,000***	***4,500***	-----	2,900	4,600	***140***
Hexachlorobutadiene	<950	<950	<950	<950	<950	-----	-----	-----	-----
Isopropylbenzene	<530	<530	**550 J**	**3,200**	<530	-----	-----	-----	-----
p-Isopropyltoluene	<450	<450	<450	**1,240 J**	<450	-----	-----	-----	-----
Methylene Chloride	<1190	<1190	<1190	<1190	<1190	-----	-----	-----	-----
Methyl-tert-butyl-ether (MTBE)	<120	<120	<120	<120	<120	-----	-----	-----	-----
Naphthalene	<1070	**1,390 J**	**2,900 J**	**13,500**	**3,100 J**	-----	-----	2,700	-----
n-Propylbenzene	**1,170 J**	**2,100**	**1,760**	**12,000**	**1,470 J**	-----	-----	-----	-----
1,1,2,2-Tetrachloroethane	<200	<200	<200	<200	<200	-----	-----	-----	-----
1,1,1,2-Tetrachloroethane	<410	<410	<410	<410	<410	-----	-----	-----	-----
Tetrachloroethene (PCE)	<240	<240	<240	<240	<240	-----	-----	-----	-----
Toluene	**550 J**	**800 J**	**840 J**	**80,000**	**8,400**	-----	1,500	3,800	-----
1,2,4-Trichlorobenzene	<740	<740	<740	<740	<740	-----	-----	-----	-----
1,2,3-Trichlorobenzene	<1290	<1290	<1290	<1290	<1290	-----	-----	-----	-----
1,1,1-Trichloroethane	<110	<110	<110	<110	<110	-----	-----	-----	-----
1,1,2-Trichloroethane	<160	<160	<160	<160	<160	-----	-----	-----	-----
Trichloroethene (TCE)	<170	<170	<170	<170	<170	-----	-----	-----	-----
Trichlorofluoromethane	<430	<430	<430	<430	<430	-----	-----	-----	-----
1,2,4-Trimethylbenzene	**6,600**	**10,300**	**9,100**	**70,000**	**8,000**	-----	-----	83,000	-----
1,3,5-Trimethylbenzene	**1,810**	**2,530**	**2,230**	**19,500**	**1,940**	-----	-----	11,000	-----
Vinyl Chloride	<160	<160	<160	<160	<160	-----	-----	-----	-----
m&p-Xylene	**6,200**	**10,000**	**7,400**	**119,000**	**14,200**	-----	4,100	42,000	-----
o-Xylene	<500	**1,040 J**	**1,290J**	**42,000**	**5,300**	-----			-----

Notes:
1) VOC - Volatile organic compounds
2) mg/kg - milligrams per kilogram
3) ug/kg - micrograms per kilogram
4) Wisconsin Administrative Code (WAC)
5) WAC Chapter NR 720.09 Table 1 - Generic Residual Contaminant Levels Based on Protection of Groundwater.
6) WAC Chapter NR 746.06 Table 1 - Indicators of Residual Petroleum Product in Soil Pores
7) WAC Chapter NR 746.06 Table 2 - Protection of Human Health from Direct Contact with Contaminated Soil
8) ----- - Standard not established
9) J - Detection between limit of detection and limit of quantitation

Table 2
Soil Analytical Results Summary - PAHs
December 2011

Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

	Soil Boring Identification with Depth					Cleanup Criteria	
Parameter	B-1 8-10'	B-2 9-11'	B-3 9-11'	B-4 9-11'	B-5 9-11'	GW Pathway	Industrial Direct Contact
PAH's (ug/kg)							
Acenaphthene	<9.7	<9.7	**123**	**14.8 J**	**10.4 J**	38,000	60,000,000
Acenaphthylene	<8.4	<8.4	**45**	<8.4	<8.4	700	360,000
Anthracene	<10.2	<10.2	**56**	<10.2	<10.2	3,000,000	300,000,000
Benzo (a) anthracene	<14.6	<14.6	<14.6	<14.6	<14.6	17,000	3,900
Benzo (a) pyrene	<16.6	<16.6	<16.6	<16.6	<16.6	48,000	390
Benzo (b) fluoranthene	<16.7	<16.7	<16.7	<16.7	<16.7	360,000	3,900
Benzo (g,h,i) perylene	<8.2	<8.2	<8.2	<8.2	<8.2	6,800,000	39,000
Benzo (k) fluoranthene	<16.1	<16.1	<16.1	<16.1	<16.1	870,000	39,000
Chrysene	<9.2	<9.2	**11 J**	<9.2	<9.2	37,000	390,000
Dibenzo(a,h)anthracene	<10.5	<10.5	<10.5	<10.5	<10.5	38,000	390
Fluoranthene	<9.8	<9.8	**25.7 J**	<9.8	<9.8	500,000	40,000,000
Fluorene	<10.7	**13 J**	**248**	**26.2 J**	**21.2 J**	100,000	40,000,000
Indeno (1,2,3-cd)pyrene	<9.5	<9.5	<9.5	<9.5	<9.5	680,000	3,900
1-Methylnaphthalene	**130**	**287**	**1,690**	**299**	**172**	23,000	70,000,000
2-Methylnaphthalene	**288**	**570**	**2,900**	**550**	**330**	20,000	40,000,000
Naphthalene	**390**	**470**	**920**	**630**	**200**	400	110,000
Phenanthrene	**12.5 J**	**60**	**350**	**57**	**50**	1,800	390,000
Pyrene	<9.5	<9.5	**81**	**11 J**	<9.5	8700000	30,000,000

Notes:

1) PAH - Polycyclic Aromatic Hydrocarbons
2) ug/kg - micrograms per kilogram
3) Groundwater (GW) Pathway Values in exceedance of WDNR Interim Guidance (RR-519-97) Table 1 - Suggested Residual Contaminant Levels (RCLs)
4) Industrial Direct Contact Pathway Values in exceedance of WDNR Interim Guidance (RR-519-97) Table 1 - Suggested RCLs for PAHs in soil for Industrial Direct Contact Pathway
5) J - Detection between limit of detection and limit of quantitation

Table 3

Groundwater Elevations - March 2012

Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

Date		MW-100	MW-101	MW-102
December 21, 2011	DTW	5.01	0.74	11.61
	GW EL	737.32	737.79	726.15
March 14, 2012	DTW	3.81	1.55	2.42
	GW EL	738.52	736.98	735.34
	DTW			
	GW EL	742.33	738.53	737.76
	DTW			
	GW EL	742.33	738.53	737.76
Top of Casing Elevation		742.33	738.53	737.76
Date of Installation		12/2/11	12/2/11	12/2/11

DTW : Depth to Water
GW EL : Groundwater elevation mean sea level

Table 4
Monitoring Well Groundwater Results Summary
March 2012
Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

Parameter	Well Identification MW-100	MW-101	MW-102	ES	PAL
VOC's					
Benzene	**1,290**	**4,900**	**4,900**	5	0.5
Bromobenzene	<7.4	<37	<37	-----	-----
Bromodichloromethane	<6.8	<34	<34	0.6	0.06
Bromoform	<4.3	<21.5	<21.5	4.4	0.44
tert-Butylbenzene	<7.1	<35.5	<35.5	-----	-----
sec-Butylbenzene	<10	<50	<50	-----	-----
n-Butylbenzene	**16.4 J**	<45	**52 J**	-----	-----
Carbon Tetrachloride	<4.7	<23.5	<23.5	5	0.5
Chlorobenzene	<5.1	<25.5	<25.5	100	20
Chloroethane	<14	<70	<70	400	80
Chloroform	<4.9	<24.5	<24.5	6	0.6
Chloromethane	<19	<95	<95	30	3
2-Chlorotoluene	<7	<35	<35	-----	-----
4-Chlorotoluene	<4.4	<22	<22	-----	-----
1,2-Dibromo-3-chloropropane	<28	<140	<140	0.2	0.02
Dibromodichloromethane	<5.5	<27.5	<27.5	-----	-----
1,4-Dichlorobenzene	<9.8	<49	<49	75	15
1,3-Dichlorobenzene	<8.7	<43.5	<43.5	600	120
1,2-Dichlorobenzene	<7.6	<38	<38	600	60
Dichlorodifluoromethane	<18	<90	<90	1000	200
1,2-Dichloroethane	<5	<25	<25	5	0.5
1,1-Dichloroethane	<9.8	<49	<49	850	85
1,1-Dichloroethene	<6	<30	<30	7	0.7
cis-1,2-Dichloroethene	<7.4	<37	<37	70	7
trans-1,2-Dichloroethene	<7.9	<39.5	<39.5	100	20
1,2-Dichloropropane	<4	<20	<20	5	0.5
2,2-Dichloropropane	<19	<95	<95	-----	-----
1,3-Dichloropropane	<7.1	<35.5	<35.5	-----	-----
Di-isopropyl ether	<6.9	<34.5	<34.5	-----	-----
1,2-Dibromoethane (EDB)	<6.3	<31.5	<31.5	0.05	0.005
Ethylbenzene	**264**	**298**	**460**	700	140
Hexachlorobutadiene	<22	<110	<110	-----	-----
Isopropylbenzene	<9.2	<46	<46	-----	-----
p-Isopropyltoluene	<9.2	<46	<46	-----	-----
Methylene Chloride	<11	<55	<55	5	0.5
Methyl-tert-butyl-ether (MTBE)	<8	**240**	**410**	60	12
Naphthalene	**57 J**	**130J**	**224 J**	100	10
n-Propylbenzene	**14.4 J**	<29.5	**90 J**	-----	-----
1,1,2,2-Tetrachloroethane	<5.3	<26.5	<26.5	0.2	0.02
1,1,1,2-Tetrachloroethane	<1	<50	<50	70	7
Tetrachloroethene (PCE)	<4.4	<22	<22	5	0.5
Toluene	**66**	**148**	**710**	800	160
1,2,4-Trichlorobenzene	<15	<75	<75	70	14
1,2,3-Trichlorobenzene	<13	<65	<65	-----	-----
1,1,1-Trichloroethane	<8.5	<42.5	<42.5	200	40
1,1,2-Trichloroethane	<4.7	<23.5	<23.5	5	0.5
Trichloroethene (TCE)	<4.7	<23.5	<23.5	5	0.5
Trichlorofluoromethane	<17	<85	<85	3490	698
1,2,4-Trimethylbenzene	**185**	**330**	**1,020**	480*	96*
1,3,5-Trimethylbenzene	**115**	**134**	**291**		
Vinyl Chloride	<1.8	<9	<9	0.2	0.02
m&p-Xylene	**390**	**770**	**2,290**	2000*	400*
o-Xylene	**18.8 J**	**72 J**	**710**		
PAH's					
Acenaphthene	**6.5**	**9.7**	**0.6 J**	--	--
Acenaphthylene	**1.47**	**3.1**	<0.19	--	--
Anthracene	**1.17**	**2.71 J**	<0.18	3000	600
Benzo (a) anthracene	**0.81**	**1.75 J**	<0.24	--	--
Benzo (a) pyrene	**0.252 J**	<0.9	<0.18	0.2	0.02
Benzo (b) fluoranthene	**0.46 J**	**1.14 J**	<0.2	0.2	0.02
Benzo (g,h,i) perylene	<0.19	<0.95	<0.19	--	--
Benzo (k) fluoranthene	**0.237 J**	<1.1	<0.22	--	--
Chrysene	**0.54 J**	**1.28 J**	<0.19	0.2	0.02
Dibenzo(a,h)anthracene	<0.19	<0.95	<0.19	--	--
Fluoranthene	**1.99**	**2.34 J**	<0.22	400	80
Fluorene	**9.5**	**21.6**	**0.55 J**	400	80
Indeno (1,2,3-cd)pyrene	<0.18	<0.9	<0.18	--	--
1-Methylnaphthalene	**29.7**	**157**	**2.33**	--	--
2-Methylnaphthalene	**69**	**219**	**0.41 J**	--	--
Naphthalene	**53**	**88**	**5.1**	100	10
Phenanthrene	**17.3**	**34**	<0.19	--	--
Pyrene	**2.4**	**4.7**	<0.2	250	50

Notes:
ES : Wisconsin Administrative Code NR 140 Enforcement Standards.
PAL : Wisconsin Administrative Code NR 140 Preventive Action Limits.
--- No Wisconsin Administrative Code Standard established
VOCs : Volatile Organic Compounds
PAHs : Polycyclic Aromatic Hydrocarbons
All units expressed in micrograms per liter (ug/l)
* : Regulatory Limit Based on Total Trimethylbenzenes OR Total Xylenes
J = Detection between limit of detection and limit of quantitation

Table 5
Groundwater Monitoring Well Results
MW-100
Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

Parameter	12/21/11	3/14/12	ES	PAL
VOC's				
Benzene	**192**	**1,290**	5	0.5
Bromobenzene	<7.4	<7.4	-----	-----
Bromodichloromethane	<6.8	<6.8	0.6	0.06
Bromoform	<4.3	<4.3	4.4	0.44
tert-Butylbenzene	<7.1	<7.1	-----	-----
sec-Butylbenzene	<10	<10	-----	-----
n-Butylbenzene	<9	**16.4 J**	-----	-----
Carbon Tetrachloride	<4.7	<4.7	5	0.5
Chlorobenzene	<5.1	<5.1	100	20
Chloroethane	<14	<14	400	80
Chloroform	<4.9	<4.9	6	0.6
Chloromethane	<19	<19	30	3
2-Chlorotoluene	<7	<7	-----	-----
4-Chlorotoluene	<4.4	<4.4	-----	-----
1,2-Dibromo-3-chloropropane	<28	<28	0.2	0.02
Dibromodichloromethane	<5.5	<5.5	-----	-----
1,4-Dichlorobenzene	<9.8	<9.8	75	15
1,3-Dichlorobenzene	<8.7	<8.7	600	120
1,2-Dichlorobenzene	<7.6	<7.6	600	60
Dichlorodifluoromethane	<18	<18	1000	200
1,2-Dichloroethane	<5	<5	5	0.5
1,1-Dichloroethane	<9.8	<9.8	850	85
1,1-Dichloroethene	<6	<6	7	0.7
cis-1,2-Dichloroethene	<7.4	<7.4	70	7
trans-1,2-Dichloroethene	<7.9	<7.9	100	20
1,2-Dichloropropane	<4	<4	5	0.5
2,2-Dichloropropane	<19	<19	-----	-----
1,3-Dichloropropane	<7.1	<7.1	-----	-----
Di-isopropyl ether	<6.9	<6.9	-----	-----
1,2-Dibromoethane (EDB)	<6.3	<6.3	0.05	0.005
Ethylbenzene	**14.8 J**	**264**	700	140
Hexachlorobutadiene	<22	<22	-----	-----
Isopropylbenzene	<9.2	<9.2	-----	-----
p-Isopropyltoluene	<9.2	<9.2	-----	-----
Methylene Chloride	<11	<11	5	0.5
Methyl-tert-butyl-ether (MTBE)	<8	<8	60	12
Naphthalene	**30.3 J**	**57 J**	100	10
n-Propylbenzene	<5.9	**14.4 J**	-----	-----
1,1,2,2-Tetrachloroethane	<5.3	<5.3	0.2	0.02
1,1,1,2-Tetrachloroethane	<10	<1	70	7
Tetrachloroethene (PCE)	<4.4	<4.4	5	0.5
Toluene	**19**	**66**	800	160
1,2,4-Trichlorobenzene	<15	<15	70	14
1,2,3-Trichlorobenzene	<13	<13	-----	-----
1,1,1-Trichloroethane	<8.5	<8.5	200	40
1,1,2-Trichloroethane	<4.7	<4.7	5	0.5
Trichloroethene (TCE)	<4.7	<4.7	5	0.5
Trichlorofluoromethane	<17	<17	3490	698
1,2,4-Trimethylbenzene	**50**	**185**	480*	96*
1,3,5-Trimethylbenzene	**34**	**115**		
Vinyl Chloride	<1.8	<1.8	0.2	0.02
m&p-Xylene	**92**	**390**	2000*	400*
o-Xylene	**13.1 J**	**18.8 J**		
PAH's				
Acenaphthene	**7.6**	**6.5**	--	--
Acenaphthylene	**2.03**	**1.47**	--	--
Anthracene	**2.74**	**1.17**	3000	600
Benzo (a) anthracene	**0.97**	**0.81**	--	--
Benzo (a) pyrene	**0.38**	**0.252 J**	0.2	0.02
Benzo (b) fluoranthene	**0.57**	**0.46 J**	0.2	0.02
Benzo (g,h,i) perylene	**0.202 J**	<0.19	--	--
Benzo (k) fluoranthene	**0.238 J**	**0.237 J**	--	--
Chrysene	**0.59**	**0.54 J**	0.2	0.02
Dibenzo(a,h)anthracene	<0.16	<0.19	--	--
Fluoranthene	**2.27**	**1.99**	400	80
Fluorene	**12.4**	**9.5**	400	80
Indeno (1,2,3-cd)pyrene	**0.184 J**	<0.18	--	--
1-Methylnaphthalene	**63**	**29.7**	--	--
2-Methylnaphthalene	**45**	**69**	--	--
Naphthalene	**10.1**	**53**	100	10
Phenanthrene	**17.7**	**17.3**	--	--
Pyrene	**2.71**	**2.4**	250	50

Notes:
ES : Wisconsin Administrative Code NR 140 Enforcement Standards.
PAL : Wisconsin Administrative Code NR 140 Preventive Action Limits.
--- No Wisconsin Administrative Code Standard established
VOCs : Volatile Organic Compounds
PAHs : Polycyclic Aromatic Hydrocarbons
All units expressed in micrograms per liter (ug/l)
* : Regulatory Limit Based on Total Trimethylbenzenes OR Total Xylenes
J = Detection between limit of detection and limit of quantitation

Table 5 (cont'd)
Groundwater Monitoring Well Results
MW-101
Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

Parameter	12/21/11	3/14/12	ES	PAL
VOC's				
Benzene	**3,400**	**4,900**	5	0.5
Bromobenzene	<37	<37	-----	-----
Bromodichloromethane	<34	<34	0.6	0.06
Bromoform	<21.5	<21.5	4.4	0.44
tert-Butylbenzene	<35.5	<35.5	-----	-----
sec-Butylbenzene	<50	<50	-----	-----
n-Butylbenzene	<45	<45	-----	-----
Carbon Tetrachloride	<23.5	<23.5	5	0.5
Chlorobenzene	<25.5	<25.5	100	20
Chloroethane	<70	<70	400	80
Chloroform	<24.5	<24.5	6	0.6
Chloromethane	<95	<95	30	3
2-Chlorotoluene	<35	<35	-----	-----
4-Chlorotoluene	<22	<22	-----	-----
1,2-Dibromo-3-chloropropane	<140	<140	0.2	0.02
Dibromodichloromethane	<27.5	<27.5	-----	-----
1,4-Dichlorobenzene	<49	<49	75	15
1,3-Dichlorobenzene	<43.5	<43.5	600	120
1,2-Dichlorobenzene	<38	<38	600	60
Dichlorodifluoromethane	<90	<90	1000	200
1,2-Dichloroethane	<25	<25	5	0.5
1,1-Dichloroethane	<49	<49	850	85
1,1-Dichloroethene	<30	<30	7	0.7
cis-1,2-Dichloroethene	<37	<37	70	7
trans-1,2-Dichloroethene	<39.5	<39.5	100	20
1,2-Dichloropropane	<20	<20	5	0.5
2,2-Dichloropropane	<95	<95	-----	-----
1,3-Dichloropropane	<35.5	<35.5	-----	-----
Di-isopropyl ether	<34.5	<34.5	-----	-----
1,2-Dibromoethane (EDB)	<31.5	<31.5	0.05	0.005
Ethylbenzene	**370**	**298**	700	140
Hexachlorobutadiene	<110	<110	-----	-----
Isopropylbenzene	<46	<46	-----	-----
p-Isopropyltoluene	<46	<46	-----	-----
Methylene Chloride	<55	<55	5	0.5
Methyl-tert-butyl-ether (MTBE)	**180**	**240**	60	12
Naphthalene	**264 J**	**130J**	100	10
n-Propylbenzene	36 J	<29.5	-----	-----
1,1,2,2-Tetrachloroethane	<26.5	<26.5	0.2	0.02
1,1,1,2-Tetrachloroethane	<50	<50	70	7
Tetrachloroethene (PCE)	<22	<22	5	0.5
Toluene	**252**	**148**	800	160
1,2,4-Trichlorobenzene	<75	<75	70	14
1,2,3-Trichlorobenzene	<65	<65	-----	-----
1,1,1-Trichloroethane	<42.5	<42.5	200	40
1,1,2-Trichloroethane	<23.5	<23.5	5	0.5
Trichloroethene (TCE)	<23.5	<23.5	5	0.5
Trichlorofluoromethane	<85	<85	3490	698
1,2,4-Trimethylbenzene	**700**	**330**	480*	96*
1,3,5-Trimethylbenzene	**208**	**134**		
Vinyl Chloride	<9	<9	0.2	0.02
m&p-Xylene	**1,650**	**770**	2000*	400*
o-Xylene	**258**	**72 J**		
PAH's				
Acenaphthene	**10.5**	**9.7**	-----	-----
Acenaphthylene	**3.5**	**3.1**	-----	-----
Anthracene	**2.56**	**2.71 J**	3000	600
Benzo (a) anthracene	**0.99 J**	**1.75 J**	-----	-----
Benzo (a) pyrene	<0.55	<0.9	0.2	0.02
Benzo (b) fluoranthene	<0.65	**1.14 J**	0.2	0.02
Benzo (g,h,i) perylene	<0.75	<0.95	-----	-----
Benzo (k) fluoranthene	<0.75	<1.1	-----	-----
Chrysene	<0.65	**1.28 J**	0.2	0.02
Dibenzo(a,h)anthracene	<0.8	<0.95	-----	-----
Fluoranthene	**1.09 J**	**2.34 J**	400	80
Fluorene	**19.5**	**21.6**	400	80
Indeno (1,2,3-cd)pyrene	<0.75	<0.9	-----	-----
1-Methylnaphthalene	**183**	**157**	-----	-----
2-Methylnaphthalene	**258**	**219**	-----	-----
Naphthalene	**97**	**88**	100	10
Phenanthrene	**29**	**34**	-----	-----
Pyrene	**3.14**	**4.7**	250	50

Notes:
ES : Wisconsin Administrative Code NR 140 Enforcement Standards.
PAL : Wisconsin Administrative Code NR 140 Preventive Action Limits.
--- No Wisconsin Administrative Code Standard established
VOCs : Volatile Organic Compounds
PAHs : Polycyclic Aromatic Hydrocarbons
All units expressed in micrograms per liter (ug/l)
* : Regulatory Limit Based on Total Trimethylbenzenes OR Total Xylenes
J = Detection between limit of detection and limit of quantitation

Table 5 (cont'd)
Groundwater Monitoring Well Results
MW-101
Milwaukee South Terminal - Manifold Area
9135 North 107th Street
Milwaukee, Wisconsin

Parameter	12/21/11	3/14/12	ES	PAL
VOC's				
Benzene	**4,900**	**4,900**	5	0.5
Bromobenzene	<37	<37	-----	-----
Bromodichloromethane	<34	<34	0.6	0.06
Bromoform	<21.5	<21.5	4.4	0.44
tert-Butylbenzene	<35.5	<35.5	-----	-----
sec-Butylbenzene	<50	<50	-----	-----
n-Butylbenzene	**58 J**	**52 J**	-----	-----
Carbon Tetrachloride	<23.5	<23.5	5	0.5
Chlorobenzene	<25.5	<25.5	100	20
Chloroethane	<70	<70	400	80
Chloroform	<24.5	<24.5	6	0.6
Chloromethane	<95	<95	30	3
2-Chlorotoluene	<35	<35	-----	-----
4-Chlorotoluene	<22	<22	-----	-----
1,2-Dibromo-3-chloropropane	<140	<140	0.2	0.02
Dibromodichloromethane	<27.5	<27.5	-----	-----
1,4-Dichlorobenzene	<49	<49	75	15
1,3-Dichlorobenzene	<43.5	<43.5	600	120
1,2-Dichlorobenzene	<38	<38	600	60
Dichlorodifluoromethane	<90	<90	1000	200
1,2-Dichloroethane	<25	<25	5	0.5
1,1-Dichloroethane	<49	<49	850	85
1,1-Dichloroethene	<30	<30	7	0.7
cis-1,2-Dichloroethene	<37	<37	70	7
trans-1,2-Dichloroethene	<39.5	<39.5	100	20
1,2-Dichloropropane	<20	<20	5	0.5
2,2-Dichloropropane	<95	<95	-----	-----
1,3-Dichloropropane	<35.5	<35.5	-----	-----
Di-isopropyl ether	<34.5	<34.5	-----	-----
1,2-Dibromoethane (EDB)	<31.5	<31.5	0.05	0.005
Ethylbenzene	**1,510**	**460**	700	140
Hexachlorobutadiene	<110	<110	-----	-----
Isopropylbenzene	**80 J**	<46	-----	-----
p-Isopropyltoluene	<46	<46	-----	-----
Methylene Chloride	<55	<55	5	0.5
Methyl-tert-butyl-ether (MTBE)	**118 J**	**410**	60	12
Naphthalene	**640**	**224 J**	100	10
n-Propylbenzene	**217**	90 J	-----	-----
1,1,2,2-Tetrachloroethane	<26.5	<26.5	0.2	0.02
1,1,1,2-Tetrachloroethane	<50	<50	70	7
Tetrachloroethene (PCE)	<22	<22	5	0.5
Toluene	**4,600**	**710**	800	160
1,2,4-Trichlorobenzene	<75	<75	70	14
1,2,3-Trichlorobenzene	<65	<65	-----	-----
1,1,1-Trichloroethane	<42.5	<42.5	200	40
1,1,2-Trichloroethane	<23.5	<23.5	5	0.5
Trichloroethene (TCE)	<23.5	<23.5	5	0.5
Trichlorofluoromethane	<85	<85	3490	698
1,2,4-Trimethylbenzene	**1,730**	**1,020**	480*	96*
1,3,5-Trimethylbenzene	**460**	**291**		
Vinyl Chloride	<9	<9	0.2	0.02
m&p-Xylene	**5,300**	**2,290**	2000*	400*
o-Xylene	**1,850**	**710**		
PAH's				
Acenaphthene	**11.5**	**0.6 J**	--	--
Acenaphthylene	**3.4 J**	<0.19	--	--
Anthracene	**4.8**	<0.18	3000	600
Benzo (a) anthracene	**2.58 J**	<0.24	--	--
Benzo (a) pyrene	<1.1	<0.18	0.2	0.02
Benzo (b) fluoranthene	<1.3	<0.2	0.2	0.02
Benzo (g,h,i) perylene	<1.5	<0.19	--	--
Benzo (k) fluoranthene	<1.5	<0.22	--	--
Chrysene	<1.3	<0.19	0.2	0.02
Dibenzo(a,h)anthracene	<1.6	<0.19	--	--
Fluoranthene	**3.9 J**	<0.22	400	80
Fluorene	**23.8**	**0.55 J**	400	80
Indeno (1,2,3-cd)pyrene	<1.5	<0.18	--	--
1-Methylnaphthalene	**273**	**2.33**	--	--
2-Methylnaphthalene	**480**	**0.41 J**	--	--
Naphthalene	**350**	**5.1**	100	10
Phenanthrene	**39**	<0.19	--	--
Pyrene	**6.3**	<0.2	250	50

Notes:
ES : Wisconsin Administrative Code NR 140 Enforcement Standards.
PAL : Wisconsin Administrative Code NR 140 Preventive Action Limits.
--- No Wisconsin Administrative Code Standard established
VOCs : Volatile Organic Compounds
PAHs : Polycyclic Aromatic Hydrocarbons
All units expressed in micrograms per liter (ug/l)
* : Regulatory Limit Based on Total Trimethylbenzenes OR Total Xylenes
J = Detection between limit of detection and limit of quantitation

FIGURES

NOTE: IMAGE TAKEN FROM GOOGLE EARTH

SCALE:1"=2000'

0 2000' 4000' 6000'

SITE LOCATION MAP

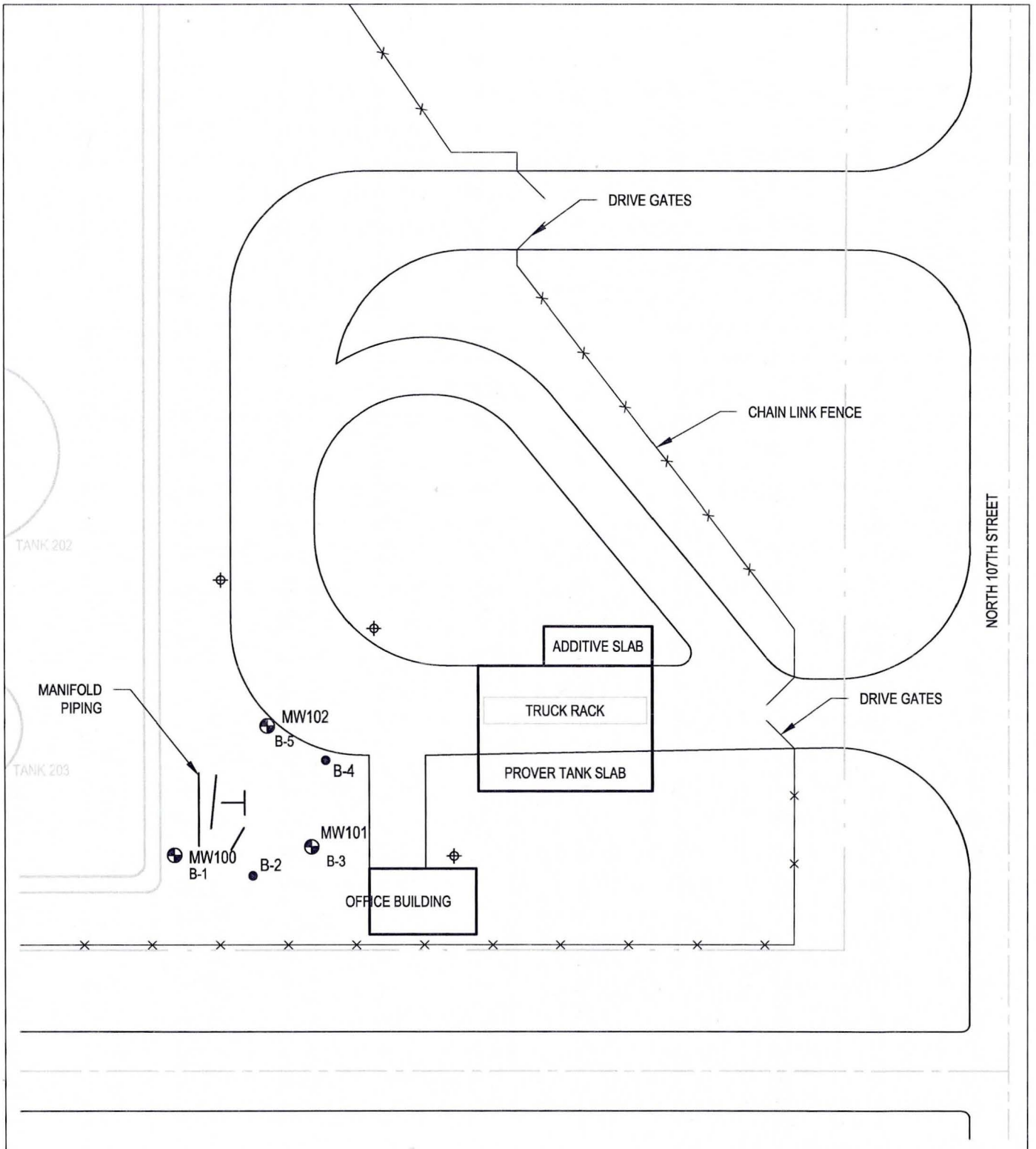
U.S. OIL CO., INC.
MILWAUKEE SOUTH TERMINAL

Endpoint Solutions

12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: DJK	DATE: 1 /18/2010	014-002-003
REVIEWED BY: M.P.	DWG: MLW-1017	FIGURE 1

\\Sitecomp\AUTOCAD 4-26-08\MILWAUKEE COUNTY\MLW-1017 ENDPOINT SOLUTIONS N 107th ST\dwg\MLW-1017 ENDPOINT SOLUTIONS N 107th 1-10.dwg



LEGEND

- PROPERTY LINE
- FENCE
- B-1 SOIL BORING LOCATION
- MW102 MONITORING WELL LOCATION
- PROPOSED MONITORING WELL LOCATIONS

N

0 50' 100'

APPROXIMATE SCALE

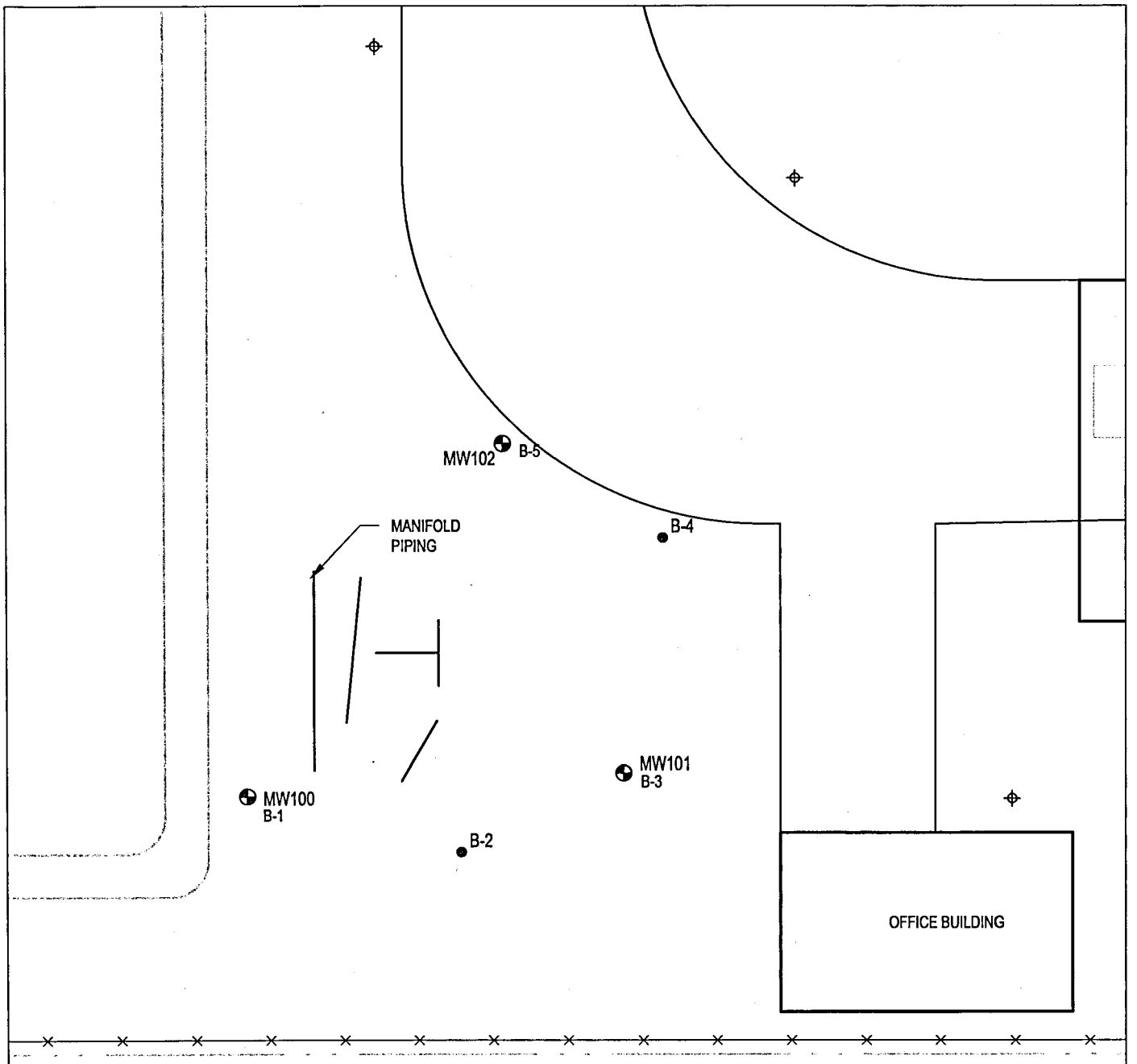
SITE MAP

U.S. OIL CO., INC. - MILWAUKEE SOUTH TERMINAL
9135 NORTH 107TH STREET
MILWAUKEE, WISCONSIN

Endpoint Solutions
12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: MMV	DATE: 06/06/2012	FIGURE 2
REVIEWED BY: TCP	PROJECT NO: 014-002-008	

P:\US Venture\Milwaukee South Terminal\cadd\Site Plan.dwg



LEGEND

- PROPERTY LINE
- FENCE
- B-1 SOIL BORING LOCATION
- MW102 MONITORING WELL LOCATION
- PROPOSED MONITORING WELL LOCATIONS

N

0 20' 40'

APPROXIMATE SCALE

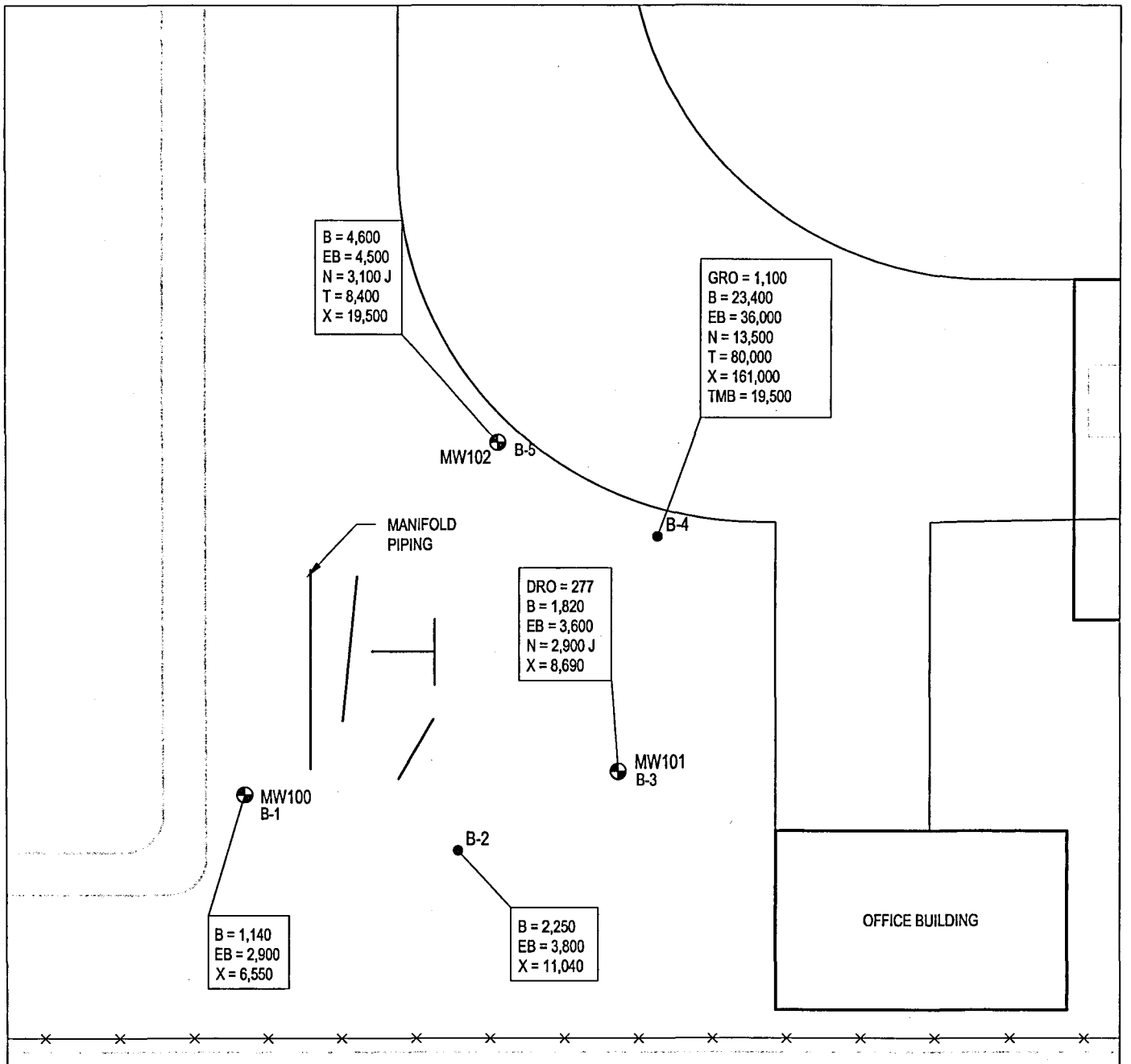
SITE DETAIL

U.S. OIL CO., INC. - MILWAUKEE SOUTH TERMINAL
9135 NORTH 107TH STREET
MILWAUKEE, WISCONSIN

Endpoint Solutions
12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: MMV	DATE: 06/06/2012	FIGURE 3
REVIEWED BY: TCP	PROJECT NO: 014-002-008	

P:\US Venture\Milwaukee South Terminal\cad\Site Plan.dwg



LEGEND

- PROPERTY LINE
- FENCE
- B-1 SOIL BORING LOCATION
- MW102 MONITORING WELL LOCATION

DRO = DIESEL RANGE ORGANICS
GRO = GASOLINE RANGE ORGANICS
B = BENZENE
EB = ETHYLBENZENE
N = NAPHTHALENE
T = TOLUENE
X = TOTAL XYLENES
TMB = TOTAL TRIMETHYLBENZENE

N

0 20' 40'

APPROXIMATE SCALE

NOTES

1. DRO/GRO REPORTED AS MILLIGRAMS PER KILOGRAM (mg/kg).
2. ALL CONSTITUENTS REPORTED AS MICROGRAM PER KILOGRAM (µg/kg).
3. ONLY CONCENTRATIONS ABOVE WISCONSIN REGULATORY STANDARDS SHOWN.

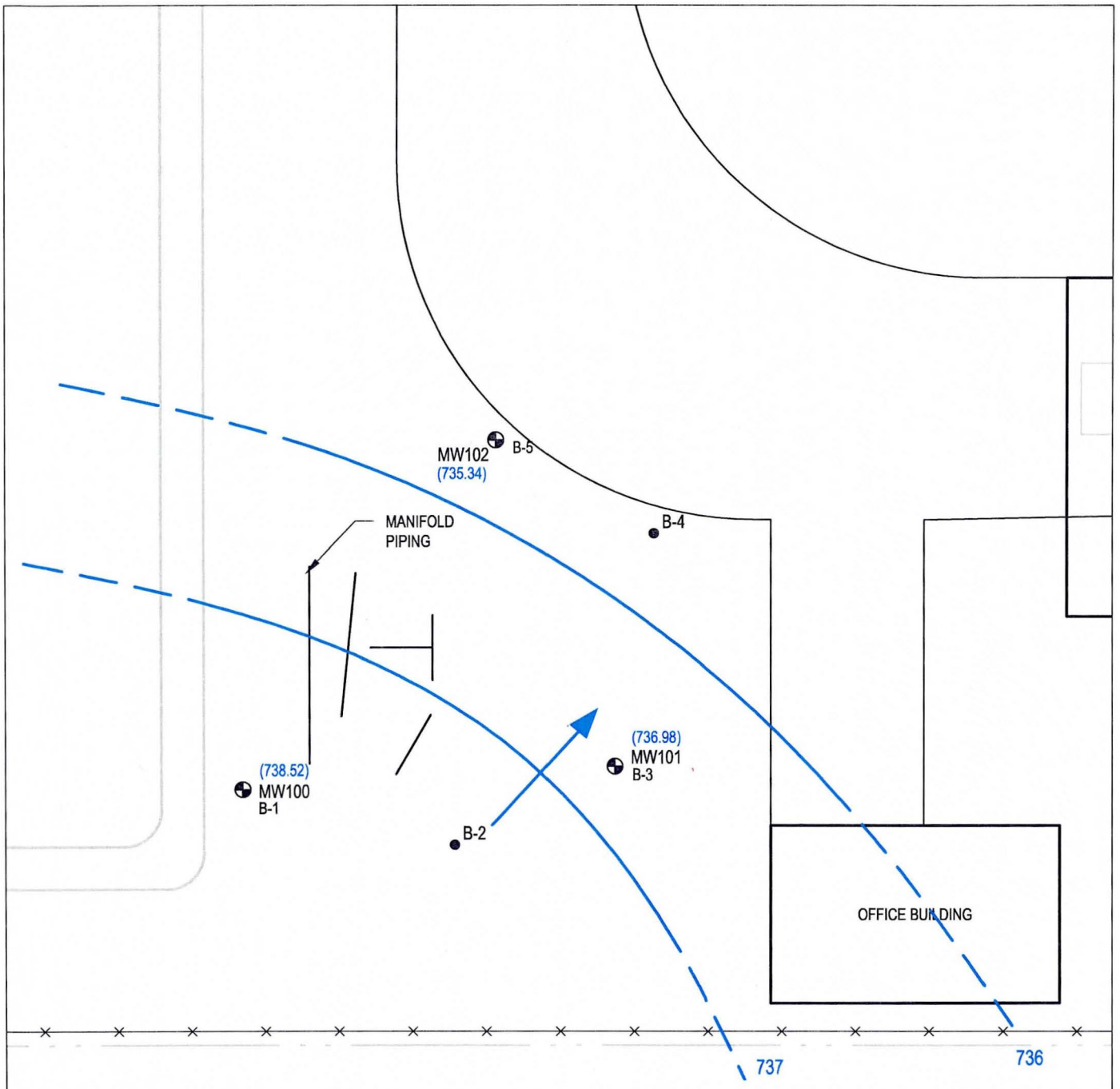
SOIL ANALYTICAL RESULTS - DECEMBER 2011

U.S. OIL CO., INC. - MILWAUKEE SOUTH TERMINAL
9135 NORTH 107TH STREET
MILWAUKEE, WISCONSIN

Endpoint Solutions
12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: TCP	DATE: 06/25/2012	FIGURE 4
REVIEWED BY: TCP	PROJECT NO: 014-002-008	

P:\US Venture\Milwaukee South Terminal\Cadd\Site Plan.dwg



LEGEND

- PROPERTY LINE
- FENCE
- B-1 SOIL BORING LOCATION
- MW102 MONITORING WELL LOCATION
- GROUNDWATER CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

N

0 20' 40'

APPROXIMATE SCALE

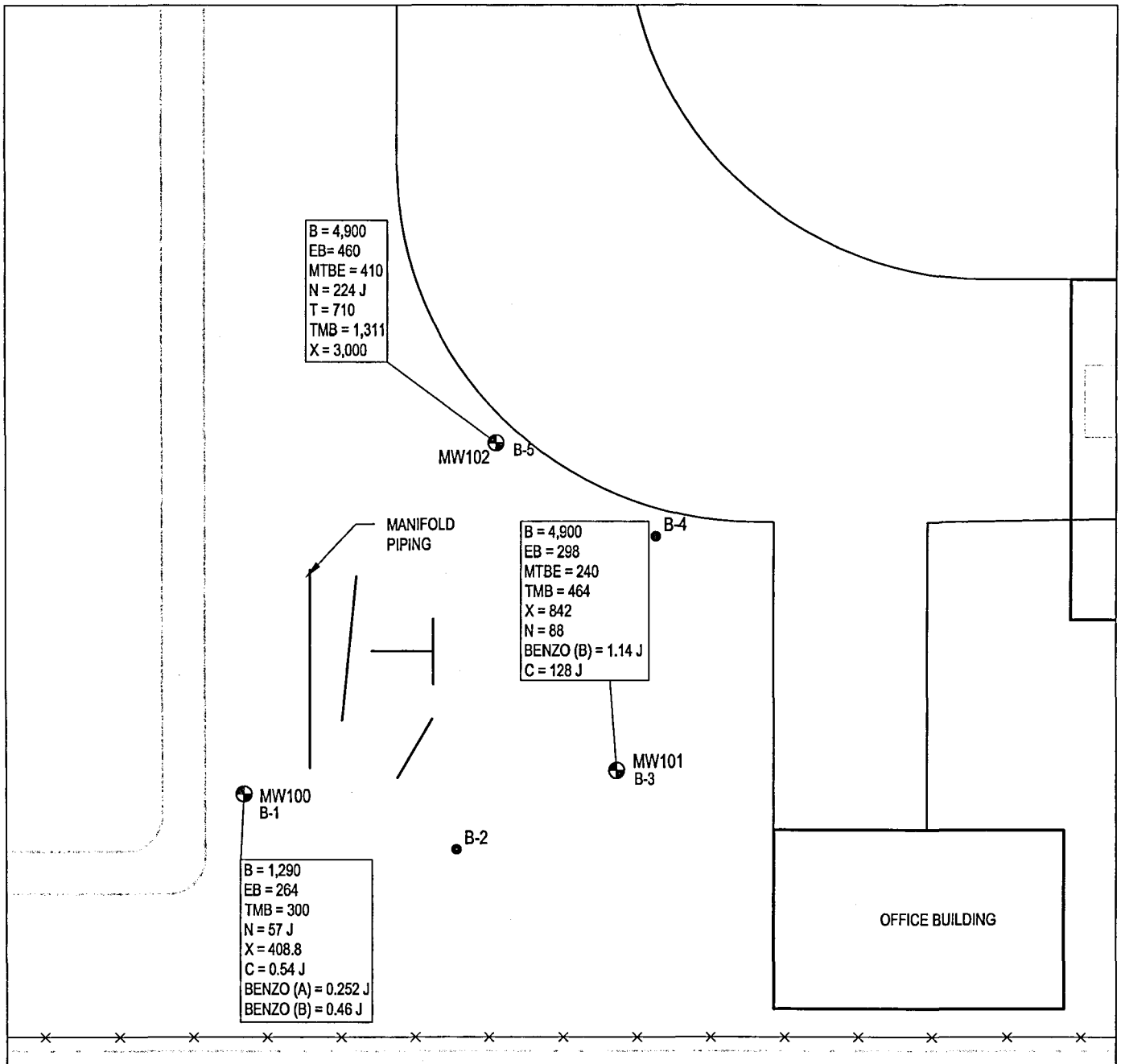
GROUNDWATER FLOW DIRECTION - MARCH 2012

U.S. OIL CO., INC. - MILWAUKEE SOUTH TERMINAL
9135 NORTH 107TH STREET
MILWAUKEE, WISCONSIN

Endpoint Solutions
12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: MMV	DATE: 06/29/2012	FIGURE 5
REVIEWED BY: TCP	PROJECT NO: 014-002-008	

P:\US Venture\Milwaukee South Terminal\cadd\Site Plan.dwg



LEGEND

PROPERTY LINE

FENCE

B-1 SOIL BORING LOCATION

MW102 MONITORING WELL LOCATION

B = BENZENE
BENZO (A) = BENZO(A)PYRENE
BENZO (B) = BENZO(B)FLUORANTHENE
C = CHRYSENE
EB = ETHYLBENZENE
MTBE = METHYL-BUTYL-ETHER
N = NAPHTHALENE
T = TOLUENE
TMB = TOTAL TRIMETHYLBENZENE
X = TOTAL XYLENES

N

0 20' 40'

APPROXIMATE SCALE

NOTES

1. ALL RESULTS REPORTED AS MICROGRAM PER LITER (µg/L).
2. ONLY CONCENTRATIONS ABOVE WISCONSIN REGULATORY STANDARDS SHOWN.

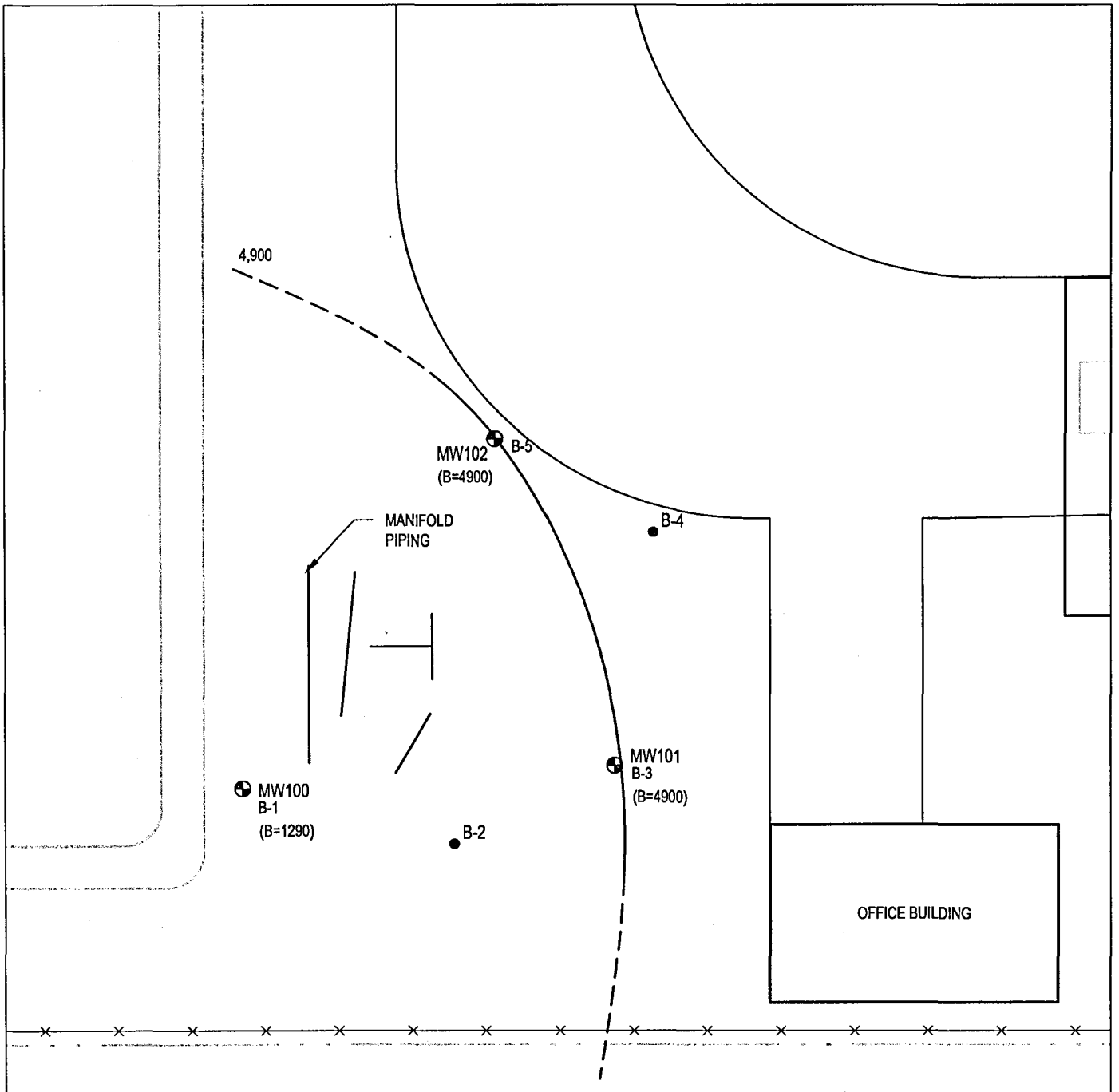
GROUNDWATER ANALYTICAL RESULTS - MAR 2012

U.S. OIL CO., INC. - MILWAUKEE SOUTH TERMINAL
9135 NORTH 107TH STREET
MILWAUKEE, WISCONSIN

Endpoint Solutions
12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: MMV	DATE: 06/29/2012	FIGURE 6
REVIEWED BY: TCP	PROJECT NO: 014-002-008	

P:\US Ventures\Milwaukee South Terminal\Cadd\Site Plan.dwg



LEGEND

- PROPERTY LINE
- FENCE
- B-1 SOIL BORING LOCATION
- MW102 MONITORING WELL LOCATION
- BENZENE ISOCONCENTRATION (DASHED WHERE INFERRED)

N

0 20' 40'

APPROXIMATE SCALE

BENZENE ISOCONCENTRATION - MARCH 2012

U.S. OIL CO., INC. - MILWAUKEE SOUTH TERMINAL

9135 NORTH 107TH STREET
MILWAUKEE, WISCONSIN

Endpoint Solutions

12065 West Janesville Road
Hales Corners, WI 53130
Phone: (414) 427-1200 Fax: (414) 427-1259

DRAWN BY: MMV	DATE: 06/29/2012	FIGURE 7
REVIEWED BY: TCP	PROJECT NO: 014-002-008	

P:\US Venture\Milwaukee South Terminal\cadd\Site Plan.dwg

APPENDIX A

Monitoring Well Construction Forms, Development Forms, Boring Logs, Abandonment Forms

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: US Venture MKE South	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW – 100
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12/02/2011 (m m d d y y y y)
Type of Well: Well Code 11 / MW	Section Location of Waste/Source: NE 1/4 of SE 1/4 of Sec. 6, T. 8 N, R. 21 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Tony, On-Site Environmental
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation 742.33 ft. MSL
C. Land surface elevation 740.08 ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

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

13. Sieve analysis performed? ☐ Yes ☒ No

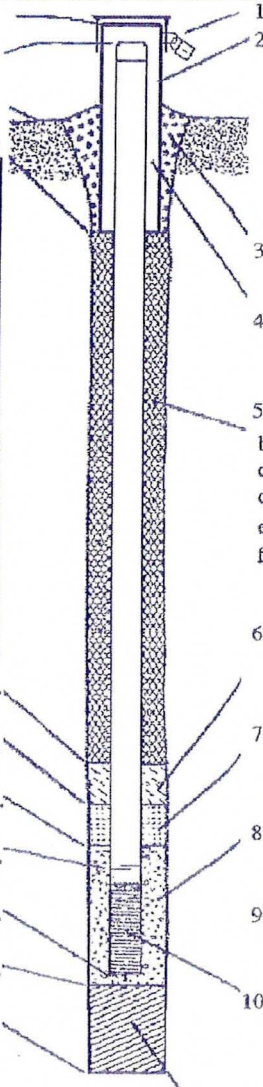
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

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

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

17. Source of water (attach analysis, if required):
—

E. Bentonite seal, top 1 ft. MSL or _____ ft.
F. Fine sand, top 3 ft. MSL or _____ ft.
G. Filter pack, top 4 ft. MSL or _____ ft.
H. Screen joint, top 5 ft. MSL or _____ ft.
I. Well bottom 15 ft. MSL or _____ ft.
J. Filter pack, bottom 16 ft. MSL or _____ ft.
K. Borehole, bottom 16 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.4 in.
N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 6 in.
b. Length: 5 ft.
c. Material: Stick up — Steel ☒ 04 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. 40-60
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added 3 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐
10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): Coars Sand — None ☐ 14 / Other ☒

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

Signature: [signature] Firm: Endpoint Solutions Corp

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: DS Venture MKE South	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW – 101
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12 / 02 / 2011 (m m d d y y y y)
Type of Well — Well Code: 11 / MW	Section Location of Waste/Source: NE 1/4 of SE 1/4 of Sec. 6, T. 8 N, R. 21 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Tony — On-Site Environmental
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation 738.53 ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

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

13. Sieve analysis performed? ☐ Yes ☒ No

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

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

16. Drilling additives used? ☐ Yes ☒ No

Describe —

17. Source of water (attach analysis, if required): —

E. Bentonite seal, top 1 ft. MSL or _____ ft.
F. Fine sand, top 3 ft. MSL or _____ ft.
G. Filter pack, top 4 ft. MSL or _____ ft.
H. Screen joint, top 5 ft. MSL or _____ ft.
I. Well bottom 15 ft. MSL or _____ ft.
J. Filter pack, bottom 15 ft. MSL or _____ ft.
K. Borehole, bottom 15 ft. MSL or _____ ft.
L. Borehole, diameter 8.25 in.
M. O.D. well casing 2.4 in.
N. I.D. well casing 2.0 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 12 ft.
c. Material: flush mount — Steel ☒ 04 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: — Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐
4. Material between well casing and protective pipe: — Bentonite ☒ 30 / Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. 40-60
b. Volume added 0.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added 3 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐
10. Screen material: sch 40 pvc
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): — None ☒ 14 / Other ☐

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

Signature: [signature] Firm: Endpoint Solutions Corp

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: DS Venture MKE South	Local Grid Location of Well ____ ft. ☐N ☐S ____ ft. ☐E ☐W	Well Name: MW-102
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 12/02/2011 (m m d d y y y y)
Type of Well — Well Code 11 / MW	Section Location of Waste/Source: NE 1/4 of SE 1/4 of Sec. 6, T. 8 N, R. 21 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Tony, On-Site Environmental
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation ____ ft. MSL

B. Well casing, top elevation 737.76 ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

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

13. Sieve analysis performed? ☐ Yes ☒ No

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

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

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

17. Source of water (attach analysis, if required):
—

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

F. Fine sand, top 3 ft. MSL or ____ ft.

G. Filter pack, top 4 ft. MSL or ____ ft.

H. Screen joint, top 5 ft. MSL or ____ ft.

I. Well bottom 15 ft. MSL or ____ ft.

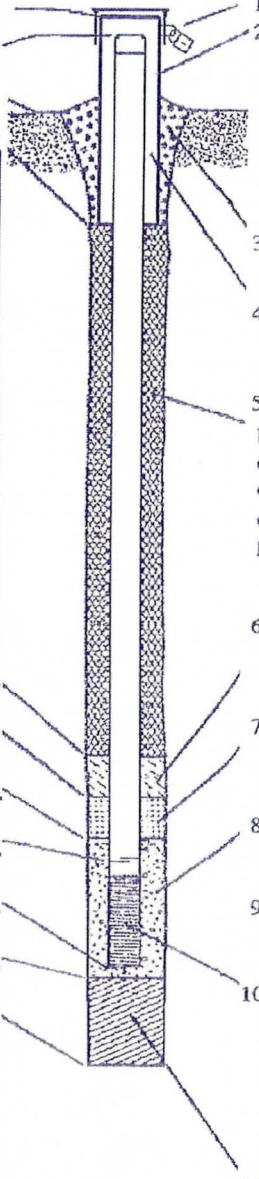
J. Filter pack, bottom 15 ft. MSL or ____ ft.

K. Borehole, bottom 15 ft. MSL or ____ ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.4 in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 12 ft.
c. Material: flush mount — Steel ☒ 04 / Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

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

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____

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

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

7. Fine sand material: Manufacturer, product name & mesh size
a. 40-60
b. Volume added 0.5 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. ____
b. Volume added 3 ft^3

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

10. Screen material: Sch 40 PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

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

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

Signature: [signature] Firm: Endpoint Solutions Corp

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
VS oil Milwaukee South	Milwaukee	MW-100

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_____	___

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

2. Well development method

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

3. Time spent developing well 20 min.

4. Depth of well (from top of well casisng) 17. ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 7.5 gal.

7. Volume of water removed from well 7. gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added —

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.01 ft.	16.00 ft.
Date	b. 12/21/2011 (m m d d y y y y)	12/21/2011
Time	c. 13:10 ☐ a.m. ☒ p.m.	13:30 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	—. inches	—. inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)		brown
14. Total suspended solids	—. mg/l	—. mg/l
15. COD	—. mg/l	—. mg/l

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

16. Well developed by: Name (first, last) and Firm
First Name: Tim Last Name: Petrick
Firm: Endpoint

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: VS Oil Milwaukee South
Street: 9135 N 107th Street
City/State/Zip: Milwaukee, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Tim
Print Name: Tim Petrick
Firm: Endpoint

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
VS Oil Milwaukee South	Milwaukee	MW-101

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_____	___

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

2. Well development method

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

3. Time spent developing well 20 min.

4. Depth of well (from top of well casisng) 15.__ ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 8.__ gal.

7. Volume of water removed from well 7.__ gal.

8. Volume of water added (if any) 0.__ gal.

9. Source of water added —

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 0.74 ft.	14.5 ft.
Date	b. 12/21/2011 (m m d d y y y y)	12/21/2011 (m m d d y y y y)
Time	c. 13:30 ☐ a.m. ☒ p.m.	13:50 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	—.__ inches	—.__ inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (Describe) brown

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Tim Last Name: Petrik
Firm: Endpoint

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: VS Oil Milwaukee South
Street: 9135 N 107th Street
City/State/Zip: Milwaukee, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: TMP
Print Name: Tim Petrik
Firm: Endpoint

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
VS on Milwaukee South	Milwaukee	MW-102

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_____	___

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

2. Well development method

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

3. Time spent developing well 15 min.

4. Depth of well (from top of well casisng) 15 ft.

5. Inside diameter of well 2.07 in.

6. Volume of water in filter pack and well casing 3 gal.

7. Volume of water removed from well 3 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added —

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

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	11.61 ft.	14.5 ft.
Date b. (m m d d y y y y)	12/21/2011	12/21/2011
Time c.	13:55 ☐ a.m. ☒ p.m.	14:10 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	— inches	— inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)		brown

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

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

16. Well developed by: Name (first, last) and Firm
First Name: Tim Last Name: Petrich
Firm: Endpoint

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: VS on Milwaukee South
Street: 9135 N 107th Street
City/State/Zip: Milwaukee, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Tim P
Print Name: Tim Petrich
Firm: Endpoint

NOTE: See instructions for more information including a list of county codes and well type codes.

Field Soil Boring Log Information

Project No: DNR-002-DOB

Page 1 of 1

Project Name	Start Date	End Date	Boring Number
US Venture NIKE South	12-2-2011	12-2-2011	B-1

Boring Drilled By	Drilling Method
On-Site	Direct push / HSA MW-100

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
				Inches

Boring Location: State Plane — Easting — Northing — NE 1/4 of SE 1/4 of Section 6 T 8 N,R 21E

Local Grid Location (If applicable): ☐ N ☐ S Feet ☐ E ☐ W Feet

County	State	DNR County Code	Civil Town/City/ or Village
Milwaukee	WI	41	Milwaukee

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
				pot holed to 7'					
			7						
				brown silty clay, plastic					
				trace coarse sand					
				gas odors					
	60		12						
				brown silty clay, plastic to 14'					
				change to gray silty clay					
				trace coarse sand					
	30		16						
				EOB @ 16'					
				set well at 15'					

Logged By: TWP

Checked By:

F-204A (R 12-94)

Field Soil Boring Log Information

Project No: 011-002-008 Page 1 of 1

Project Name	Start Date	End Date	Boring Number
VS Venture MKE South	12-2-2011	12-2-2011	B-2

Boring Drilled By	Drilling Method
On-Site	direct push / HSA

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
				Inches

Boring Location: State Plane — Easting — Northing — NE 1/4 of SE 1/4 of Section 6 T 8 N,R 21E

Local Grid Location (If applicable): ☐ N Feet ☐ S ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
Milwaukee	WI	41	Milwaukee

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
				pot holed to 5'					
			5	brown silty clay, plastic trace coarse sand gas odors					
	60		10						
				brown silty clay, plastic gas odors					
	60		15						
				EOB @ 15'					

Logged By: TMP

Checked By:

F-204A (R 12-94)

Field Soil Boring Log Information

Project No: 044-002-008 Page 1 of 1

Project Name	Start Date	End Date	Boring Number
US Venture NIKE South	12-2-2011	12-2-2011	B-3

Boring Drilled By	Drilling Method
On-Site	Direct push / HSA MW-101

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
				Inches

Boring Location: State Plane — Easting — Northing — NE 1/4 of SE 1/4 of Section 6 T 8 N,R 21E

Local Grid Location (If applicable): ☐ N Feet ☐ S ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
Milwaukee	WI	41	Milwaukee

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
				pot holed to 5'					
			5						
				Brown/tan silty clay, plastic					
				trace coarse sand					
	48		10						
				brown/tan silty clay, plastic					
				trace coarse sand					
	36		15						
				EOB @ 15'					
				set well at 15'					

Logged By: JWP

Checked By:

F-204A (R 12-94)

Field Soil Boring Log Information

Project No: 011-002-00B

Project Name	Start Date	End Date	Boring Number
US Venture NIKE South	12-2-2011	12-2-2011	B-4

Boring Drilled By	Drilling Method
On-Site	direct push / HSA

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
				Inches

Boring Location: State Plane — Easting — Northing — Local Grid Location (If applicable)

NE 1/4 of SE 1/4 of Section 6 T 8 N,R 21E — ☐ N Feet ☐ S — ☐ E Feet ☐ W

County	State	DNR County Code	Civil Town/City/ or Village
Milwaukee	WI	41	Milwaukee

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
				pot holed to 5'					
			5						
				brown/tan silty clay, plastic trace coarse sand gas odors					
	60		10						
				brown/tan silty clay, plastic trace coarse sand to 13' then dark brown silty clay trace coarse sand					
	48		15						
				EOB @ 15'					

Logged By: Jmp

Checked By:

F-204A (R 12-94)

Field Soil Boring Log Information

Project No: 011-002-008

Project Name	Start Date	End Date	Boring Number
US Venture NIKE South	12-2-2011	12-2-2011	B-5

Boring Drilled By	Drilling Method	
On-Site	Direct push / HSA	MW-102

Drill Rig	Common Well Name	Initial Water Level	Surface Elevation	Borehole Diameter
				Inches

Boring Location — State Plane — Easting — Northing

NE 1/4 of SE 1/4 of Section 6 T 8 N,R 21E

Local Grid Location (If applicable): ☐ N ☐ S Feet ☐ E ☐ W Feet

County	State	DNR County Code	Civil Town/City/ or Village
Milwaukee	WI	41	Milwaukee

Number	Length (In) Recovered	Blow Counts	Depth In Feet	Group Name, Percent & Range of Particle Sizes, Plasticity, Color, Odor, Moisture, Density/Consistency, Additional Comments, Geologic Origin (Stratigraphic Unit)	Sample Type	PID/FID	Standard Penetration	Well Diagram	RQD/ Comments
				pot holed to 5'					
			5	tan/brown silty clay, plastic trace coarse sand gas odors					
	60		10						
				tan/brown silty clay, plastic trace coarse sand to 13' then dark brown silty clay, plastic trace coarse sand					
	60		15						
				EOB @ 15' set well @ 15'					

Logged By: JWP

Checked By:

F-204A (R 12-94)

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	B-	2

Lattitude / Longitude (Degrees and Minutes) — Method Code (see instructions)

__ __ ° __ __ . __ __ __ 'N
__ __ ° __ __ . __ __ __ 'W

¼ ¼ NE	¼ SE	Section	Township	Range	E / W
or Gov't Lot #		6	8 N	21	☒ E ☐ W

Well Street Address: 9135 N 107th

Well City, Village or Town: Milwaukee — Well ZIP Code:

Subdivision Name — Lot #

Reason For Removal From Service: investigation — WI Unique Well # of Replacement Well: __ __ __ __ __ __

2. Facility / Owner Information

Facility Name: VS Oil Milwaukee South

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner: VS Venture, Inc

Present Well Owner

Mailing Address of Present Owner: 425 Better Way

City of Present Owner: Appleton — State: WI — ZIP Code: 54915

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12-2-2011

If a Well Construction Report is available, please attach.

Construction Type: ☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): direct push

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.5	—

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

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

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

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

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

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

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

5. Material Used To Fill Well / Drillhole

bentonite chips

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	15	50 LBS	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
On Site Environmental		12-2-2011

Street or Route — Telephone Number ( )

City: Sun Prairie — State: WI — ZIP Code — Signature of Person Doing Work — Date Signed

DNR Use Only

Date Received	Noted By

Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08) Page 1 of 2

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	_ _ _ _ _ _	B-4

Lattitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
_ _ ° _ _ ' _ _ . _ _ _ " N	
_ _ ° _ _ ' _ _ . _ _ _ " W	

¼ / ¼	¼	Section	Township	Range	
NE	SE	6	8 N	21	☒ E ☐ W

or Gov't Lot #

Well Street Address: 9135 N 107th

Well City, Village or Town: Milwaukee

Well ZIP Code:

Subdivision Name:

Lot #:

Reason For Removal From Service: Investigation

WI Unique Well # of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: VS Oil Milwaukee South

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner: VS Venture, Inc

Present Well Owner:

Mailing Address of Present Owner: 425 Better Way

City of Present Owner: Appleton

State: WI

ZIP Code: 54915

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well ☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy):

If a Well Construction Report is available, please attach.

Construction Type:

☐ Drilled ☐ Driven (Sandpoint) ☐ Dug ☒ Other (specify): direct push

Formation Type:

☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
15	—
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.5	—

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

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

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

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

Required Method of Placing Sealing Material

☒ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials

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

For Monitoring Wells and Monitoring Well Boreholes Only:

☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
bentonite chips	Surface	15	50 lbs	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
On Site Environmental		12-2-2011

Street or Route	Telephone Number	City	State	ZIP Code
	( )	Sun Prairie	WI	

Signature of Person Doing Work:

Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

APPENDIX B

Soil Analytical Reports

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

TIM PETRICK
ENDPOINT SOLUTIONS LLC
12065 WEST JANESVILLE ROAD
HALES CORNERS, WI 53130

Report Date *19-Dec-11*

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163A
Sample ID B-1/MW-100 8-10'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.2	%			1	5021		12/8/2011	MDK	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	0.81	2.6	1	DRO95		12/7/2011	MDK	1
Gasoline Range Organics	80	mg/kg	2.8	8.8	1	GRO95/8021		12/9/2011	CJR	1
PAH SIM										
Acenaphthene	< 9.7	ug/kg	9.7	30.8	1	M8270D	12/9/2011	12/12/2011	MDK	1
Acenaphthylene	< 8.4	ug/kg	8.4	26.8	1	M8270D	12/9/2011	12/12/2011	MDK	1
Anthracene	< 10.2	ug/kg	10.2	32.4	1	M8270D	12/9/2011	12/12/2011	MDK	1
Benzo(a)anthracene	< 14.6	ug/kg	14.6	46.6	1	M8270D	12/9/2011	12/12/2011	MDK	1
Benzo(a)pyrene	< 16.6	ug/kg	16.6	52.8	1	M8270D	12/9/2011	12/12/2011	MDK	1
Benzo(b)fluoranthene	< 16.7	ug/kg	16.7	53.2	1	M8270D	12/9/2011	12/12/2011	MDK	1
Benzo(g,h,i)perylene	< 8.2	ug/kg	8.2	25.9	1	M8270D	12/9/2011	12/12/2011	MDK	1
Benzo(k)fluoranthene	< 16.1	ug/kg	16.1	51.4	1	M8270D	12/9/2011	12/12/2011	MDK	1
Chrysene	< 9.2	ug/kg	9.2	29.3	1	M8270D	12/9/2011	12/12/2011	MDK	1
Dibenzo(a,h)anthracene	< 10.5	ug/kg	10.5	33.5	1	M8270D	12/9/2011	12/12/2011	MDK	1
Fluoranthene	< 9.8	ug/kg	9.8	31.3	1	M8270D	12/9/2011	12/12/2011	MDK	1
Fluorene	< 10.7	ug/kg	10.7	33.9	1	M8270D	12/9/2011	12/12/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 9.5	ug/kg	9.5	30.2	1	M8270D	12/9/2011	12/12/2011	MDK	1
1-Methyl naphthalene	130	ug/kg	17.9	56.9	1	M8270D	12/9/2011	12/12/2011	MDK	1
2-Methyl naphthalene	288	ug/kg	9.6	30.4	1	M8270D	12/9/2011	12/12/2011	MDK	1
Naphthalene	390	ug/kg	10.8	34.5	1	M8270D	12/9/2011	12/12/2011	MDK	1
Phenanthrene	12.5 "J"	ug/kg	9.8	31.1	1	M8270D	12/9/2011	12/12/2011	MDK	1
Pyrene	< 9.5	ug/kg	9.5	30.3	1	M8270D	12/9/2011	12/12/2011	MDK	1
VOC's										
Benzene	1140	ug/kg	89	280	10	8260B		12/6/2011	CJR	1
Bromobenzene	< 140	ug/kg	140	430	10	8260B		12/6/2011	CJR	1
Bromodichloromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163A
Sample ID B-1/MW-100 8-10'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 200	ug/kg	200	620	10	8260B		12/6/2011	CJR	1
tert-Butylbenzene	< 540	ug/kg	540	1730	10	8260B		12/6/2011	CJR	1
sec-Butylbenzene	< 510	ug/kg	510	1620	10	8260B		12/6/2011	CJR	1
n-Butylbenzene	540 "J"	ug/kg	480	1520	10	8260B		12/6/2011	CJR	1
Carbon Tetrachloride	< 120	ug/kg	120	390	10	8260B		12/6/2011	CJR	1
Chlorobenzene	< 94	ug/kg	94	300	10	8260B		12/6/2011	CJR	1
Chloroethane	< 1420	ug/kg	1420	4520	10	8260B		12/6/2011	CJR	1
Chloroform	< 460	ug/kg	460	1460	10	8260B		12/6/2011	CJR	1
Chloromethane	< 2070	ug/kg	2070	6580	10	8260B		12/6/2011	CJR	1
2-Chlorotoluene	< 840	ug/kg	840	2670	10	8260B		12/6/2011	CJR	1
4-Chlorotoluene	< 760	ug/kg	760	2410	10	8260B		12/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 770	ug/kg	770	2450	10	8260B		12/6/2011	CJR	1
Dibromochloromethane	< 95	ug/kg	95	300	10	8260B		12/6/2011	CJR	1
1,4-Dichlorobenzene	< 520	ug/kg	520	1670	10	8260B		12/6/2011	CJR	1
1,3-Dichlorobenzene	< 530	ug/kg	530	1700	10	8260B		12/6/2011	CJR	1
1,2-Dichlorobenzene	< 510	ug/kg	510	1640	10	8260B		12/6/2011	CJR	1
Dichlorodifluoromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
1,2-Dichloroethane	< 130	ug/kg	130	420	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethane	< 110	ug/kg	110	330	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
cis-1,2-Dichloroethene	< 140	ug/kg	140	440	10	8260B		12/6/2011	CJR	1
trans-1,2-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
1,2-Dichloropropane	< 110	ug/kg	110	360	10	8260B		12/6/2011	CJR	1
2,2-Dichloropropane	< 330	ug/kg	330	1040	10	8260B		12/6/2011	CJR	8
1,3-Dichloropropane	< 110	ug/kg	110	350	10	8260B		12/6/2011	CJR	1
Di-isopropyl ether	< 470	ug/kg	470	1480	10	8260B		12/6/2011	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/kg	170	540	10	8260B		12/6/2011	CJR	1
Ethylbenzene	2900	ug/kg	550	1750	10	8260B		12/6/2011	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3030	10	8260B		12/6/2011	CJR	1
Isopropylbenzene	< 530	ug/kg	530	1680	10	8260B		12/6/2011	CJR	1
p-Isopropyltoluene	< 450	ug/kg	450	1430	10	8260B		12/6/2011	CJR	1
Methylene chloride	< 1190	ug/kg	1190	3800	10	8260B		12/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 120	ug/kg	120	380	10	8260B		12/6/2011	CJR	1
Naphthalene	< 1070	ug/kg	1070	3400	10	8260B		12/6/2011	CJR	1
n-Propylbenzene	1170 "J"	ug/kg	530	1690	10	8260B		12/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 200	ug/kg	200	640	10	8260B		12/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 410	ug/kg	410	1320	10	8260B		12/6/2011	CJR	1
Tetrachloroethene	< 240	ug/kg	240	780	10	8260B		12/6/2011	CJR	1
Toluene	550 "J"	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 740	ug/kg	740	2370	10	8260B		12/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4090	10	8260B		12/6/2011	CJR	1
1,1,1-Trichloroethane	< 110	ug/kg	110	340	10	8260B		12/6/2011	CJR	1
1,1,2-Trichloroethane	< 160	ug/kg	160	520	10	8260B		12/6/2011	CJR	1
Trichloroethene (TCE)	< 170	ug/kg	170	530	10	8260B		12/6/2011	CJR	1
Trichlorofluoromethane	< 430	ug/kg	430	1370	10	8260B		12/6/2011	CJR	1
1,2,4-Trimethylbenzene	6600	ug/kg	800	2530	10	8260B		12/6/2011	CJR	1
1,3,5-Trimethylbenzene	1810	ug/kg	480	1510	10	8260B		12/6/2011	CJR	1
Vinyl Chloride	< 160	ug/kg	160	490	10	8260B		12/6/2011	CJR	1
m&p-Xylene	6200	ug/kg	860	2740	10	8260B		12/6/2011	CJR	1
o-Xylene	< 500	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Dibromofluoromethane	96	Rec %			10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163A
Sample ID B-1/MW-100 8-10'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	117	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Toluene-d8	114	Rec %			10	8260B		12/6/2011	CJR	1

Lab Code 5023163B
Sample ID B-2 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.3	%			1	5021		12/8/2011	MDK	1
Organic										
General										
Diesel Range Organics	17.2	mg/kg	0.81	2.6	1	DRO95		12/7/2011	MDK	1 54
Gasoline Range Organics	100	mg/kg	28	88	10	GRO95/8021		12/6/2011	CJR	1
PAH SIM										
Acenaphthene	< 9.7	ug/kg	9.7	30.8	1	M8270D	12/9/2011	12/13/2011	MDK	1
Acenaphthylene	< 8.4	ug/kg	8.4	26.8	1	M8270D	12/9/2011	12/13/2011	MDK	1
Anthracene	< 10.2	ug/kg	10.2	32.4	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(a)anthracene	< 14.6	ug/kg	14.6	46.6	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(a)pyrene	< 16.6	ug/kg	16.6	52.8	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(b)fluoranthene	< 16.7	ug/kg	16.7	53.2	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(g,h,i)perylene	< 8.2	ug/kg	8.2	25.9	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(k)fluoranthene	< 16.1	ug/kg	16.1	51.4	1	M8270D	12/9/2011	12/13/2011	MDK	1
Chrysene	< 9.2	ug/kg	9.2	29.3	1	M8270D	12/9/2011	12/13/2011	MDK	1
Dibenzo(a,h)anthracene	< 10.5	ug/kg	10.5	33.5	1	M8270D	12/9/2011	12/13/2011	MDK	1
Fluoranthene	< 9.8	ug/kg	9.8	31.3	1	M8270D	12/9/2011	12/13/2011	MDK	1
Fluorene	13 "J"	ug/kg	10.7	33.9	1	M8270D	12/9/2011	12/13/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 9.5	ug/kg	9.5	30.2	1	M8270D	12/9/2011	12/13/2011	MDK	1
1-Methyl naphthalene	287	ug/kg	17.9	56.9	1	M8270D	12/9/2011	12/13/2011	MDK	1
2-Methyl naphthalene	570	ug/kg	9.6	30.4	1	M8270D	12/9/2011	12/13/2011	MDK	1
Naphthalene	470	ug/kg	10.8	34.5	1	M8270D	12/9/2011	12/13/2011	MDK	1
Phenanthrene	60	ug/kg	9.8	31.1	1	M8270D	12/9/2011	12/13/2011	MDK	1
Pyrene	< 9.5	ug/kg	9.5	30.3	1	M8270D	12/9/2011	12/13/2011	MDK	1
VOC's										
Benzene	2250	ug/kg	89	280	10	8260B		12/6/2011	CJR	1
Bromobenzene	< 140	ug/kg	140	430	10	8260B		12/6/2011	CJR	1
Bromodichloromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
Bromoform	< 200	ug/kg	200	620	10	8260B		12/6/2011	CJR	1
tert-Butylbenzene	< 540	ug/kg	540	1730	10	8260B		12/6/2011	CJR	1
sec-Butylbenzene	< 510	ug/kg	510	1620	10	8260B		12/6/2011	CJR	1
n-Butylbenzene	1020 "J"	ug/kg	480	1520	10	8260B		12/6/2011	CJR	1
Carbon Tetrachloride	< 120	ug/kg	120	390	10	8260B		12/6/2011	CJR	1
Chlorobenzene	< 94	ug/kg	94	300	10	8260B		12/6/2011	CJR	1
Chloroethane	< 1420	ug/kg	1420	4520	10	8260B		12/6/2011	CJR	1
Chloroform	< 460	ug/kg	460	1460	10	8260B		12/6/2011	CJR	1
Chloromethane	< 2070	ug/kg	2070	6580	10	8260B		12/6/2011	CJR	1
2-Chlorotoluene	< 840	ug/kg	840	2670	10	8260B		12/6/2011	CJR	1
4-Chlorotoluene	< 760	ug/kg	760	2410	10	8260B		12/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 770	ug/kg	770	2450	10	8260B		12/6/2011	CJR	1
Dibromochloromethane	< 95	ug/kg	95	300	10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163B
Sample ID B-2 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,4-Dichlorobenzene	< 520	ug/kg	520	1670	10	8260B		12/6/2011	CJR	1
1,3-Dichlorobenzene	< 530	ug/kg	530	1700	10	8260B		12/6/2011	CJR	1
1,2-Dichlorobenzene	< 510	ug/kg	510	1640	10	8260B		12/6/2011	CJR	1
Dichlorodifluoromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
1,2-Dichloroethane	< 130	ug/kg	130	420	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethane	< 110	ug/kg	110	330	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
cis-1,2-Dichloroethene	< 140	ug/kg	140	440	10	8260B		12/6/2011	CJR	1
trans-1,2-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
1,2-Dichloropropane	< 110	ug/kg	110	360	10	8260B		12/6/2011	CJR	1
2,2-Dichloropropane	< 330	ug/kg	330	1040	10	8260B		12/6/2011	CJR	8
1,3-Dichloropropane	< 110	ug/kg	110	350	10	8260B		12/6/2011	CJR	1
Di-isopropyl ether	< 470	ug/kg	470	1480	10	8260B		12/6/2011	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/kg	170	540	10	8260B		12/6/2011	CJR	1
Ethylbenzene	3800	ug/kg	550	1750	10	8260B		12/6/2011	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3030	10	8260B		12/6/2011	CJR	1
Isopropylbenzene	< 530	ug/kg	530	1680	10	8260B		12/6/2011	CJR	1
p-Isopropyltoluene	< 450	ug/kg	450	1430	10	8260B		12/6/2011	CJR	1
Methylene chloride	< 1190	ug/kg	1190	3800	10	8260B		12/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 120	ug/kg	120	380	10	8260B		12/6/2011	CJR	1
Naphthalene	1390 "J"	ug/kg	1070	3400	10	8260B		12/6/2011	CJR	1
n-Propylbenzene	2100	ug/kg	530	1690	10	8260B		12/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 200	ug/kg	200	640	10	8260B		12/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 410	ug/kg	410	1320	10	8260B		12/6/2011	CJR	1
Tetrachloroethene	< 240	ug/kg	240	780	10	8260B		12/6/2011	CJR	1
Toluene	800 "J"	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 740	ug/kg	740	2370	10	8260B		12/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4090	10	8260B		12/6/2011	CJR	1
1,1,1-Trichloroethane	< 110	ug/kg	110	340	10	8260B		12/6/2011	CJR	1
1,1,2-Trichloroethane	< 160	ug/kg	160	520	10	8260B		12/6/2011	CJR	1
Trichloroethene (TCE)	< 170	ug/kg	170	530	10	8260B		12/6/2011	CJR	1
Trichlorofluoromethane	< 430	ug/kg	430	1370	10	8260B		12/6/2011	CJR	1
1,2,4-Trimethylbenzene	10300	ug/kg	800	2530	10	8260B		12/6/2011	CJR	1
1,3,5-Trimethylbenzene	2530	ug/kg	480	1510	10	8260B		12/6/2011	CJR	1
Vinyl Chloride	< 160	ug/kg	160	490	10	8260B		12/6/2011	CJR	1
m&p-Xylene	10000	ug/kg	860	2740	10	8260B		12/6/2011	CJR	1
o-Xylene	1040 "J"	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
SUR - Toluene-d8	112	Rec %			10	8260B		12/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	92	Rec %			10	8260B		12/6/2011	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Dibromofluoromethane	95	Rec %			10	8260B		12/6/2011	CJR	1

Lab Code 5023163C
Sample ID B-3/MW-101 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.8	%			1	5021		12/8/2011	MDK	1
Organic										

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163C
Sample ID B-3/MW-101 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
Diesel Range Organics	277	mg/kg	0.81	2.6	1	DRO95		12/7/2011	MDK	1 54
Gasoline Range Organics	136	mg/kg	28	88	10	GRO95/8021		12/6/2011	CJR	1
PAH SIM										
Acenaphthene	123	ug/kg	9.7	30.8	1	M8270D	12/9/2011	12/13/2011	MDK	1
Acenaphthylene	45	ug/kg	8.4	26.8	1	M8270D	12/9/2011	12/13/2011	MDK	1
Anthracene	56	ug/kg	10.2	32.4	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(a)anthracene	< 14.6	ug/kg	14.6	46.6	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(a)pyrene	< 16.6	ug/kg	16.6	52.8	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(b)fluoranthene	< 16.7	ug/kg	16.7	53.2	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(g,h,i)perylene	< 8.2	ug/kg	8.2	25.9	1	M8270D	12/9/2011	12/13/2011	MDK	1
Benzo(k)fluoranthene	< 16.1	ug/kg	16.1	51.4	1	M8270D	12/9/2011	12/13/2011	MDK	1
Chrysene	11 "J"	ug/kg	9.2	29.3	1	M8270D	12/9/2011	12/13/2011	MDK	1
Dibenzo(a,h)anthracene	< 10.5	ug/kg	10.5	33.5	1	M8270D	12/9/2011	12/13/2011	MDK	1
Fluoranthene	25.7 "J"	ug/kg	9.8	31.3	1	M8270D	12/9/2011	12/13/2011	MDK	1
Fluorene	248	ug/kg	10.7	33.9	1	M8270D	12/9/2011	12/13/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 9.5	ug/kg	9.5	30.2	1	M8270D	12/9/2011	12/13/2011	MDK	1
1-Methyl naphthalene	1690	ug/kg	17.9	56.9	1	M8270D	12/9/2011	12/13/2011	MDK	1
2-Methyl naphthalene	2900	ug/kg	9.6	30.4	1	M8270D	12/9/2011	12/13/2011	MDK	1
Naphthalene	920	ug/kg	10.8	34.5	1	M8270D	12/9/2011	12/13/2011	MDK	1
Phenanthrene	650	ug/kg	9.8	31.1	1	M8270D	12/9/2011	12/13/2011	MDK	1
Pyrene	81	ug/kg	9.5	30.3	1	M8270D	12/9/2011	12/13/2011	MDK	1
VOC's										
Benzene	1820	ug/kg	89	280	10	8260B		12/6/2011	CJR	1
Bromobenzene	< 140	ug/kg	140	430	10	8260B		12/6/2011	CJR	1
Bromodichloromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
Bromoform	< 200	ug/kg	200	620	10	8260B		12/6/2011	CJR	1
tert-Butylbenzene	< 540	ug/kg	540	1730	10	8260B		12/6/2011	CJR	1
sec-Butylbenzene	730 "J"	ug/kg	510	1620	10	8260B		12/6/2011	CJR	1
n-Butylbenzene	1390 "J"	ug/kg	480	1520	10	8260B		12/6/2011	CJR	1
Carbon Tetrachloride	< 120	ug/kg	120	390	10	8260B		12/6/2011	CJR	1
Chlorobenzene	< 94	ug/kg	94	300	10	8260B		12/6/2011	CJR	1
Chloroethane	< 1420	ug/kg	1420	4520	10	8260B		12/6/2011	CJR	1
Chloroform	< 460	ug/kg	460	1460	10	8260B		12/6/2011	CJR	1
Chloromethane	< 2070	ug/kg	2070	6580	10	8260B		12/6/2011	CJR	1
2-Chlorotoluene	< 840	ug/kg	840	2670	10	8260B		12/6/2011	CJR	1
4-Chlorotoluene	< 760	ug/kg	760	2410	10	8260B		12/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 770	ug/kg	770	2450	10	8260B		12/6/2011	CJR	1
Dibromochloromethane	< 95	ug/kg	95	300	10	8260B		12/6/2011	CJR	1
1,4-Dichlorobenzene	< 520	ug/kg	520	1670	10	8260B		12/6/2011	CJR	1
1,3-Dichlorobenzene	< 530	ug/kg	530	1700	10	8260B		12/6/2011	CJR	1
1,2-Dichlorobenzene	< 510	ug/kg	510	1640	10	8260B		12/6/2011	CJR	1
Dichlorodifluoromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
1,2-Dichloroethane	< 130	ug/kg	130	420	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethane	< 110	ug/kg	110	330	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
cis-1,2-Dichloroethene	< 140	ug/kg	140	440	10	8260B		12/6/2011	CJR	1
trans-1,2-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
1,2-Dichloropropane	< 110	ug/kg	110	360	10	8260B		12/6/2011	CJR	1
2,2-Dichloropropane	< 330	ug/kg	330	1040	10	8260B		12/6/2011	CJR	8
1,3-Dichloropropane	< 110	ug/kg	110	350	10	8260B		12/6/2011	CJR	1
Di-isopropyl ether	< 470	ug/kg	470	1480	10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163C
Sample ID B-3/MW-101 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 170	ug/kg	170	540	10	8260B		12/6/2011	CJR	1
Ethylbenzene	3600	ug/kg	550	1750	10	8260B		12/6/2011	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3030	10	8260B		12/6/2011	CJR	1
Isopropylbenzene	550 "J"	ug/kg	530	1680	10	8260B		12/6/2011	CJR	1
p-Isopropyltoluene	< 450	ug/kg	450	1430	10	8260B		12/6/2011	CJR	1
Methylene chloride	< 1190	ug/kg	1190	3800	10	8260B		12/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 120	ug/kg	120	380	10	8260B		12/6/2011	CJR	1
Naphthalene	2900 "J"	ug/kg	1070	3400	10	8260B		12/6/2011	CJR	1
n-Propylbenzene	1760	ug/kg	530	1690	10	8260B		12/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 200	ug/kg	200	640	10	8260B		12/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 410	ug/kg	410	1320	10	8260B		12/6/2011	CJR	1
Tetrachloroethene	< 240	ug/kg	240	780	10	8260B		12/6/2011	CJR	1
Toluene	840 "J"	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 740	ug/kg	740	2370	10	8260B		12/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4090	10	8260B		12/6/2011	CJR	1
1,1,1-Trichloroethane	< 110	ug/kg	110	340	10	8260B		12/6/2011	CJR	1
1,1,2-Trichloroethane	< 160	ug/kg	160	520	10	8260B		12/6/2011	CJR	1
Trichloroethene (TCE)	< 170	ug/kg	170	530	10	8260B		12/6/2011	CJR	1
Trichlorofluoromethane	< 430	ug/kg	430	1370	10	8260B		12/6/2011	CJR	1
1,2,4-Trimethylbenzene	9100	ug/kg	800	2530	10	8260B		12/6/2011	CJR	1
1,3,5-Trimethylbenzene	2230	ug/kg	480	1510	10	8260B		12/6/2011	CJR	1
Vinyl Chloride	< 160	ug/kg	160	490	10	8260B		12/6/2011	CJR	1
m&p-Xylene	7400	ug/kg	860	2740	10	8260B		12/6/2011	CJR	1
o-Xylene	1290 "J"	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
SUR - Dibromofluoromethane	93	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Toluene-d8	115	Rec %			10	8260B		12/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	105	Rec %			10	8260B		12/6/2011	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			10	8260B		12/6/2011	CJR	1

Lab Code 5023163D
Sample ID B-4 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.8	%			1	5021		12/8/2011	MDK	1
Organic										
General										
Diesel Range Organics	49.7	mg/kg	0.81	2.6	1	DRO95		12/7/2011	MDK	1 54
Gasoline Range Organics	1100	mg/kg	28	88	10	GRO95/8021		12/6/2011	CJR	1
PAH SIM										
Acenaphthene	14.8 "J"	ug/kg	9.7	30.8	1	M8270D	12/15/2011	12/15/2011	MDK	1
Acenaphthylene	< 8.4	ug/kg	8.4	26.8	1	M8270D	12/15/2011	12/15/2011	MDK	1
Anthracene	< 10.2	ug/kg	10.2	32.4	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(a)anthracene	< 14.6	ug/kg	14.6	46.6	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(a)pyrene	< 16.6	ug/kg	16.6	52.8	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(b)fluoranthene	< 16.7	ug/kg	16.7	53.2	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(g,h,i)perylene	< 8.2	ug/kg	8.2	25.9	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(k)fluoranthene	< 16.1	ug/kg	16.1	51.4	1	M8270D	12/15/2011	12/15/2011	MDK	1
Chrysene	< 9.2	ug/kg	9.2	29.3	1	M8270D	12/15/2011	12/15/2011	MDK	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163D
Sample ID B-4 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibenzo(a,h)anthracene	< 10.5	ug/kg	10.5	33.5	1	M8270D	12/15/2011	12/15/2011	MDK	1
Fluoranthene	< 9.8	ug/kg	9.8	31.3	1	M8270D	12/15/2011	12/15/2011	MDK	1
Fluorene	26.2 "J"	ug/kg	10.7	33.9	1	M8270D	12/15/2011	12/15/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 9.5	ug/kg	9.5	30.2	1	M8270D	12/15/2011	12/15/2011	MDK	1
1-Methyl naphthalene	299	ug/kg	17.9	56.9	1	M8270D	12/15/2011	12/15/2011	MDK	1
2-Methyl naphthalene	550	ug/kg	9.6	30.4	1	M8270D	12/15/2011	12/15/2011	MDK	1
Naphthalene	630	ug/kg	10.8	34.5	1	M8270D	12/15/2011	12/15/2011	MDK	1
Phenanthrene	57	ug/kg	9.8	31.1	1	M8270D	12/15/2011	12/15/2011	MDK	1
Pyrene	11 "J"	ug/kg	9.5	30.3	1	M8270D	12/15/2011	12/15/2011	MDK	1
VOC's										
Benzene	23400	ug/kg	89	280	10	8260B		12/6/2011	CJR	1
Bromobenzene	< 140	ug/kg	140	430	10	8260B		12/6/2011	CJR	1
Bromodichloromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
Bromoform	< 200	ug/kg	200	620	10	8260B		12/6/2011	CJR	1
tert-Butylbenzene	< 540	ug/kg	540	1730	10	8260B		12/6/2011	CJR	1
sec-Butylbenzene	1990	ug/kg	510	1620	10	8260B		12/6/2011	CJR	1
n-Butylbenzene	7000	ug/kg	480	1520	10	8260B		12/6/2011	CJR	1
Carbon Tetrachloride	< 120	ug/kg	120	390	10	8260B		12/6/2011	CJR	1
Chlorobenzene	< 94	ug/kg	94	300	10	8260B		12/6/2011	CJR	1
Chloroethane	< 1420	ug/kg	1420	4520	10	8260B		12/6/2011	CJR	1
Chloroform	< 460	ug/kg	460	1460	10	8260B		12/6/2011	CJR	1
Chloromethane	< 2070	ug/kg	2070	6580	10	8260B		12/6/2011	CJR	1
2-Chlorotoluene	< 840	ug/kg	840	2670	10	8260B		12/6/2011	CJR	1
4-Chlorotoluene	< 760	ug/kg	760	2410	10	8260B		12/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 770	ug/kg	770	2450	10	8260B		12/6/2011	CJR	1
Dibromochloromethane	< 95	ug/kg	95	300	10	8260B		12/6/2011	CJR	1
1,4-Dichlorobenzene	< 520	ug/kg	520	1670	10	8260B		12/6/2011	CJR	1
1,3-Dichlorobenzene	< 530	ug/kg	530	1700	10	8260B		12/6/2011	CJR	1
1,2-Dichlorobenzene	< 510	ug/kg	510	1640	10	8260B		12/6/2011	CJR	1
Dichlorodifluoromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
1,2-Dichloroethane	< 130	ug/kg	130	420	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethane	< 110	ug/kg	110	330	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
cis-1,2-Dichloroethene	< 140	ug/kg	140	440	10	8260B		12/6/2011	CJR	1
trans-1,2-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
1,2-Dichloropropane	< 110	ug/kg	110	360	10	8260B		12/6/2011	CJR	1
2,2-Dichloropropane	< 330	ug/kg	330	1040	10	8260B		12/6/2011	CJR	8
1,3-Dichloropropane	< 110	ug/kg	110	350	10	8260B		12/6/2011	CJR	1
Di-isopropyl ether	< 470	ug/kg	470	1480	10	8260B		12/6/2011	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/kg	170	540	10	8260B		12/6/2011	CJR	1
Ethylbenzene	36000	ug/kg	550	1750	10	8260B		12/6/2011	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3030	10	8260B		12/6/2011	CJR	1
Isopropylbenzene	3200	ug/kg	530	1680	10	8260B		12/6/2011	CJR	1
p-Isopropyltoluene	1240 "J"	ug/kg	450	1430	10	8260B		12/6/2011	CJR	1
Methylene chloride	< 1190	ug/kg	1190	3800	10	8260B		12/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 120	ug/kg	120	380	10	8260B		12/6/2011	CJR	1
Naphthalene	13500	ug/kg	1070	3400	10	8260B		12/6/2011	CJR	1
n-Propylbenzene	12000	ug/kg	530	1690	10	8260B		12/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 200	ug/kg	200	640	10	8260B		12/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 410	ug/kg	410	1320	10	8260B		12/6/2011	CJR	1
Tetrachloroethene	< 240	ug/kg	240	780	10	8260B		12/6/2011	CJR	1
Toluene	80000	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163D
Sample ID B-4 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,2,4-Trichlorobenzene	< 740	ug/kg	740	2370	10	8260B		12/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4090	10	8260B		12/6/2011	CJR	1
1,1,1-Trichloroethane	< 110	ug/kg	110	340	10	8260B		12/6/2011	CJR	1
1,1,2-Trichloroethane	< 160	ug/kg	160	520	10	8260B		12/6/2011	CJR	1
Trichloroethene (TCE)	< 170	ug/kg	170	530	10	8260B		12/6/2011	CJR	1
Trichlorofluoromethane	< 430	ug/kg	430	1370	10	8260B		12/6/2011	CJR	1
1,2,4-Trimethylbenzene	70000	ug/kg	800	2530	10	8260B		12/6/2011	CJR	1
1,3,5-Trimethylbenzene	19500	ug/kg	480	1510	10	8260B		12/6/2011	CJR	1
Vinyl Chloride	< 160	ug/kg	160	490	10	8260B		12/6/2011	CJR	1
m&p-Xylene	119000	ug/kg	860	2740	10	8260B		12/6/2011	CJR	1
o-Xylene	42000	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	102	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Toluene-d8	113	Rec %			10	8260B		12/6/2011	CJR	1
SUR - 4-Bromofluorobenzene	101	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Dibromofluoromethane	98	Rec %			10	8260B		12/6/2011	CJR	1

Lab Code 5023163E
Sample ID B-5/MW-102 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.2	%			1	5021		12/8/2011	MDK	1
Organic										
General										
Diesel Range Organics	< 10	mg/kg	0.81	2.6	1	DRO95		12/7/2011	MDK	1
Gasoline Range Organics	126	mg/kg	28	88	10	GRO95/8021		12/6/2011	CJR	1
PAH SIM										
Acenaphthene	10.4 "J"	ug/kg	9.7	30.8	1	M8270D	12/15/2011	12/15/2011	MDK	1
Acenaphthylene	< 8.4	ug/kg	8.4	26.8	1	M8270D	12/15/2011	12/15/2011	MDK	1
Anthracene	< 10.2	ug/kg	10.2	32.4	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(a)anthracene	< 14.6	ug/kg	14.6	46.6	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(a)pyrene	< 16.6	ug/kg	16.6	52.8	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(b)fluoranthene	< 16.7	ug/kg	16.7	53.2	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(g,h,i)perylene	< 8.2	ug/kg	8.2	25.9	1	M8270D	12/15/2011	12/15/2011	MDK	1
Benzo(k)fluoranthene	< 16.1	ug/kg	16.1	51.4	1	M8270D	12/15/2011	12/15/2011	MDK	1
Chrysene	< 9.2	ug/kg	9.2	29.3	1	M8270D	12/15/2011	12/15/2011	MDK	1
Dibenzo(a,h)anthracene	< 10.5	ug/kg	10.5	33.5	1	M8270D	12/15/2011	12/15/2011	MDK	1
Fluoranthene	< 9.8	ug/kg	9.8	31.3	1	M8270D	12/15/2011	12/15/2011	MDK	1
Fluorene	21.2 "J"	ug/kg	10.7	33.9	1	M8270D	12/15/2011	12/15/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 9.5	ug/kg	9.5	30.2	1	M8270D	12/15/2011	12/15/2011	MDK	1
1-Methyl naphthalene	172	ug/kg	17.9	56.9	1	M8270D	12/15/2011	12/15/2011	MDK	1
2-Methyl naphthalene	330	ug/kg	9.6	30.4	1	M8270D	12/15/2011	12/15/2011	MDK	1
Naphthalene	200	ug/kg	10.8	34.5	1	M8270D	12/15/2011	12/15/2011	MDK	1
Phenanthrene	50	ug/kg	9.8	31.1	1	M8270D	12/15/2011	12/15/2011	MDK	1
Pyrene	< 9.5	ug/kg	9.5	30.3	1	M8270D	12/15/2011	12/15/2011	MDK	1
VOC's										
Benzene	4600	ug/kg	89	280	10	8260B		12/6/2011	CJR	1
Bromobenzene	< 140	ug/kg	140	430	10	8260B		12/6/2011	CJR	1
Bromodichloromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Project # 014-002-008

Lab Code 5023163E
Sample ID B-5/MW-102 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Bromoform	< 200	ug/kg	200	620	10	8260B		12/6/2011	CJR	1
tert-Butylbenzene	< 540	ug/kg	540	1730	10	8260B		12/6/2011	CJR	1
sec-Butylbenzene	< 510	ug/kg	510	1620	10	8260B		12/6/2011	CJR	1
n-Butylbenzene	820 "J"	ug/kg	480	1520	10	8260B		12/6/2011	CJR	1
Carbon Tetrachloride	< 120	ug/kg	120	390	10	8260B		12/6/2011	CJR	1
Chlorobenzene	< 94	ug/kg	94	300	10	8260B		12/6/2011	CJR	1
Chloroethane	< 1420	ug/kg	1420	4520	10	8260B		12/6/2011	CJR	1
Chloroform	< 460	ug/kg	460	1460	10	8260B		12/6/2011	CJR	1
Chloromethane	< 2070	ug/kg	2070	6580	10	8260B		12/6/2011	CJR	1
2-Chlorotoluene	< 840	ug/kg	840	2670	10	8260B		12/6/2011	CJR	1
4-Chlorotoluene	< 760	ug/kg	760	2410	10	8260B		12/6/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 770	ug/kg	770	2450	10	8260B		12/6/2011	CJR	1
Dibromochloromethane	< 95	ug/kg	95	300	10	8260B		12/6/2011	CJR	1
1,4-Dichlorobenzene	< 520	ug/kg	520	1670	10	8260B		12/6/2011	CJR	1
1,3-Dichlorobenzene	< 530	ug/kg	530	1700	10	8260B		12/6/2011	CJR	1
1,2-Dichlorobenzene	< 510	ug/kg	510	1640	10	8260B		12/6/2011	CJR	1
Dichlorodifluoromethane	< 120	ug/kg	120	370	10	8260B		12/6/2011	CJR	1
1,2-Dichloroethane	< 130	ug/kg	130	420	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethane	< 110	ug/kg	110	330	10	8260B		12/6/2011	CJR	1
1,1-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
cis-1,2-Dichloroethene	< 140	ug/kg	140	440	10	8260B		12/6/2011	CJR	1
trans-1,2-Dichloroethene	< 220	ug/kg	220	690	10	8260B		12/6/2011	CJR	1
1,2-Dichloropropane	< 110	ug/kg	110	360	10	8260B		12/6/2011	CJR	1
2,2-Dichloropropane	< 330	ug/kg	330	1040	10	8260B		12/6/2011	CJR	8
1,3-Dichloropropane	< 110	ug/kg	110	350	10	8260B		12/6/2011	CJR	1
Di-isopropyl ether	< 470	ug/kg	470	1480	10	8260B		12/6/2011	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/kg	170	540	10	8260B		12/6/2011	CJR	1
Ethylbenzene	4500	ug/kg	550	1750	10	8260B		12/6/2011	CJR	1
Hexachlorobutadiene	< 950	ug/kg	950	3030	10	8260B		12/6/2011	CJR	1
Isopropylbenzene	< 530	ug/kg	530	1680	10	8260B		12/6/2011	CJR	1
p-Isopropyltoluene	< 450	ug/kg	450	1430	10	8260B		12/6/2011	CJR	1
Methylene chloride	< 1190	ug/kg	1190	3800	10	8260B		12/6/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 120	ug/kg	120	380	10	8260B		12/6/2011	CJR	1
Naphthalene	3100 "J"	ug/kg	1070	3400	10	8260B		12/6/2011	CJR	1
n-Propylbenzene	1470 "J"	ug/kg	530	1690	10	8260B		12/6/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 200	ug/kg	200	640	10	8260B		12/6/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 410	ug/kg	410	1320	10	8260B		12/6/2011	CJR	1
Tetrachloroethene	< 240	ug/kg	240	780	10	8260B		12/6/2011	CJR	1
Toluene	8400	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
1,2,4-Trichlorobenzene	< 740	ug/kg	740	2370	10	8260B		12/6/2011	CJR	1
1,2,3-Trichlorobenzene	< 1290	ug/kg	1290	4090	10	8260B		12/6/2011	CJR	1
1,1,1-Trichloroethane	< 110	ug/kg	110	340	10	8260B		12/6/2011	CJR	1
1,1,2-Trichloroethane	< 160	ug/kg	160	520	10	8260B		12/6/2011	CJR	1
Trichloroethene (TCE)	< 170	ug/kg	170	530	10	8260B		12/6/2011	CJR	1
Trichlorofluoromethane	< 430	ug/kg	430	1370	10	8260B		12/6/2011	CJR	1
1,2,4-Trimethylbenzene	8000	ug/kg	800	2530	10	8260B		12/6/2011	CJR	1
1,3,5-Trimethylbenzene	1940	ug/kg	480	1510	10	8260B		12/6/2011	CJR	1
Vinyl Chloride	< 160	ug/kg	160	490	10	8260B		12/6/2011	CJR	1
m&p-Xylene	14200	ug/kg	860	2740	10	8260B		12/6/2011	CJR	1
o-Xylene	5300	ug/kg	500	1590	10	8260B		12/6/2011	CJR	1
SUR - Toluene-d8	114	Rec %			10	8260B		12/6/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			10	8260B		12/6/2011	CJR	1

Project Name US OIL MKE SOUTH **Invoice #** E23163
Proiect # 014-002-008

Lab Code 5023163E
Sample ID B-5/MW-102 9-11'
Sample Matrix soil
Sample Date 12/2/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	108	Rec %			10	8260B		12/6/2011	CJR	1
SUR - Dibromofluoromethane	93	Rec %			10	8260B		12/6/2011	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
8	Closing calibration standard not within established limits.
54	Possible gasoline contamination indicated outside DRO window.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field. The laboratory analytical services associated with this report were performed in compliance with Synergy Environmental lab's Quality Assurance Program Manual.

Authorized Signature Michael J. Ricker

CHAIN OF JSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 100

Page 1 of ___

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #:	014-002-008
Sampler: (signature)	
Project (Name / Location):	US Oil Mke South
Reports To:	Tim Petrick
Company	Endpoint
Address	12065 W Janesville
City State Zip	Hales Corners
Phone	
FAX	
Invoice To:	
Company	
Address	SAME
City State Zip	
Phone	
FAX	

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS									PID/ FID
502316 3A	B-1/MW-100	12/5/11			X	N	3	S	Mech	X	X				X					X								8-10'		
B	B-2				X	N	3	S	Mech	X	X				X					X								9-11'		
C	B-3/MW-101				X	N	3	S	Mech	X	X				X					X								9-11'		
D	B-4				X	N	3	S	Mech	X	X				X					X								9-11'		
E	B-5/MW-102				X	N	3	S	Mech	X	X				X					X								9-11'		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment : Courier
Temp. of Temp. Blank. ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1115	12/2/11	Dominique Carson		12/5/11

Received in Laboratory By: [signature] Time: 8:00 Date: 12/6/11

APPENDIX C

Groundwater Analytical Reports

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

WADE WOLLERMANN
ENDPOINT SOLUTIONS LLC
12065 WEST JANESVILLE ROAD
HALES CORNERS. WI 53130

Report Date *05-Jan-12*

Project Name MILWAUKEE SOUTH
Project # 014-002-008
Invoice # E23259

Lab Code 5023259A
Sample ID MW-100
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	7.6	ug/l	0.1	0.31	10	M8270D	12/28/2011	12/30/2011	MDK	1
Acenaphthylene	2.06	ug/l	0.14	0.43	10	M8270D	12/28/2011	12/30/2011	MDK	1
Anthracene	2.74	ug/l	0.09	0.3	10	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(a)anthracene	0.97	ug/l	0.14	0.44	10	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(a)pyrene	0.38	ug/l	0.11	0.34	10	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(b)fluoranthene	0.57	ug/l	0.13	0.41	10	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(g,h,i)perylene	0.202 "J"	ug/l	0.15	0.48	10	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(k)fluoranthene	0.238 "J"	ug/l	0.15	0.47	10	M8270D	12/28/2011	12/30/2011	MDK	1
Chrysene	0.59	ug/l	0.13	0.42	10	M8270D	12/28/2011	12/30/2011	MDK	1
Dibenzo(a,h)anthracene	< 0.16	ug/l	0.16	0.5	10	M8270D	12/28/2011	12/30/2011	MDK	1
Fluoranthene	2.27	ug/l	0.12	0.39	10	M8270D	12/28/2011	12/30/2011	MDK	1
Fluorene	12.4	ug/l	0.08	0.25	10	M8270D	12/28/2011	12/30/2011	MDK	1
Indeno(1,2,3-cd)pyrene	0.184 "J"	ug/l	0.15	0.49	10	M8270D	12/28/2011	12/30/2011	MDK	1
1-Methyl naphthalene	63	ug/l	0.09	0.28	10	M8270D	12/28/2011	12/30/2011	MDK	1
2-Methyl naphthalene	45	ug/l	0.13	0.4	10	M8270D	12/28/2011	12/30/2011	MDK	1
Naphthalene	10.1	ug/l	0.15	0.47	10	M8270D	12/28/2011	12/30/2011	MDK	1
Phenanthrene	17.7	ug/l	0.1	0.33	10	M8270D	12/28/2011	12/30/2011	MDK	1
Pyrene	2.71	ug/l	0.13	0.42	10	M8270D	12/28/2011	12/30/2011	MDK	1
VOC's										
Benzene	192	ug/l	5	16	10	8260B		12/28/2011	CJR	1
Bromobenzene	< 7.4	ug/l	7.4	24	10	8260B		12/28/2011	CJR	1
Bromodichloromethane	< 6.8	ug/l	6.8	22	10	8260B		12/28/2011	CJR	1
Bromoform	< 4.3	ug/l	4.3	14	10	8260B		12/28/2011	CJR	1
tert-Butylbenzene	< 7.1	ug/l	7.1	23	10	8260B		12/28/2011	CJR	1
sec-Butylbenzene	< 10	ug/l	10	33	10	8260B		12/28/2011	CJR	1
n-Butylbenzene	< 9	ug/l	9	29	10	8260B		12/28/2011	CJR	1
Carbon Tetrachloride	< 4.7	ug/l	4.7	15	10	8260B		12/28/2011	CJR	1
Chlorobenzene	< 5.1	ug/l	5.1	16	10	8260B		12/28/2011	CJR	1

Project Name MILWAUKEE SOUTH **Invoice #** E23259
Project # 014-002-008

Lab Code 5023259A
Sample ID MW-100
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
Chloroethane	< 14	ug/l	14	45	10	8260B		12/28/2011	CJR	1
Chloroform	< 4.9	ug/l	4.9	15	10	8260B		12/28/2011	CJR	1
Chloromethane	< 19	ug/l	19	61	10	8260B		12/28/2011	CJR	1
2-Chlorotoluene	< 7	ug/l	7	22	10	8260B		12/28/2011	CJR	1
4-Chlorotoluene	< 4.4	ug/l	4.4	14	10	8260B		12/28/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 28	ug/l	28	89	10	8260B		12/28/2011	CJR	1
Dibromochloromethane	< 5.5	ug/l	5.5	18	10	8260B		12/28/2011	CJR	1
1,4-Dichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		12/28/2011	CJR	1
1,3-Dichlorobenzene	< 8.7	ug/l	8.7	28	10	8260B		12/28/2011	CJR	1
1,2-Dichlorobenzene	< 7.6	ug/l	7.6	24	10	8260B		12/28/2011	CJR	1
Dichlorodifluoromethane	< 18	ug/l	18	59	10	8260B		12/28/2011	CJR	1
1,2-Dichloroethane	< 5	ug/l	5	16	10	8260B		12/28/2011	CJR	1
1,1-Dichloroethane	< 9.8	ug/l	9.8	31	10	8260B		12/28/2011	CJR	1
1,1-Dichloroethene	< 6	ug/l	6	19	10	8260B		12/28/2011	CJR	1
cis-1,2-Dichloroethene	< 7.4	ug/l	7.4	24	10	8260B		12/28/2011	CJR	1
trans-1,2-Dichloroethene	< 7.9	ug/l	7.9	25	10	8260B		12/28/2011	CJR	1
1,2-Dichloropropane	< 4	ug/l	4	13	10	8260B		12/28/2011	CJR	1
2,2-Dichloropropane	< 19	ug/l	19	59	10	8260B		12/28/2011	CJR	8
1,3-Dichloropropane	< 7.1	ug/l	7.1	23	10	8260B		12/28/2011	CJR	1
Di-isopropyl ether	< 6.9	ug/l	6.9	22	10	8260B		12/28/2011	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		12/28/2011	CJR	1
Ethylbenzene	14.8 "J"	ug/l	7.8	25	10	8260B		12/28/2011	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	68	10	8260B		12/28/2011	CJR	1
Isopropylbenzene	< 9.2	ug/l	9.2	29	10	8260B		12/28/2011	CJR	1
p-Isopropyltoluene	< 9.2	ug/l	9.2	29	10	8260B		12/28/2011	CJR	1
Methylene chloride	< 11	ug/l	11	34	10	8260B		12/28/2011	CJR	1
Methyl tert-butyl ether (MTBE)	< 8	ug/l	8	25	10	8260B		12/28/2011	CJR	1
Naphthalene	30.3 "J"	ug/l	21	68	10	8260B		12/28/2011	CJR	1
n-Propylbenzene	< 5.9	ug/l	5.9	19	10	8260B		12/28/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 5.3	ug/l	5.3	17	10	8260B		12/28/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 10	ug/l	10	32	10	8260B		12/28/2011	CJR	1
Tetrachloroethene	< 4.4	ug/l	4.4	14	10	8260B		12/28/2011	CJR	8
Toluene	18.5	ug/l	5.3	17	10	8260B		12/28/2011	CJR	1
1,2,4-Trichlorobenzene	< 15	ug/l	15	46	10	8260B		12/28/2011	CJR	1
1,2,3-Trichlorobenzene	< 13	ug/l	13	42	10	8260B		12/28/2011	CJR	1
1,1,1-Trichloroethane	< 8.5	ug/l	8.5	27	10	8260B		12/28/2011	CJR	1
1,1,2-Trichloroethane	< 4.7	ug/l	4.7	15	10	8260B		12/28/2011	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		12/28/2011	CJR	1
Trichlorofluoromethane	< 17	ug/l	17	53	10	8260B		12/28/2011	CJR	1
1,2,4-Trimethylbenzene	50	ug/l	8	25	10	8260B		12/28/2011	CJR	1
1,3,5-Trimethylbenzene	34	ug/l	7.4	24	10	8260B		12/28/2011	CJR	1
Vinyl Chloride	< 1.8	ug/l	1.8	5.6	10	8260B		12/28/2011	CJR	1
m&p-Xylene	92	ug/l	11	35	10	8260B		12/28/2011	CJR	1
o-Xylene	13.1 "J"	ug/l	8	26	10	8260B		12/28/2011	CJR	1
SUR - 4-Bromofluorobenzene	111	REC %			10	8260B		12/28/2011	CJR	1
SUR - Dibromofluoromethane	97	REC %			10	8260B		12/28/2011	CJR	1
SUR - Toluene-d8	109	REC %			10	8260B		12/28/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			10	8260B		12/28/2011	CJR	1

Project Name MILWAUKEE SOUTH **Invoice #** E23259
Project # 014-002-008

Lab Code 5023259B
Sample ID MW -101
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	10.5	ug/l	0.5	1.55	50	M8270D	12/28/2011	12/30/2011	MDK	1
Acenaphthylene	3.5	ug/l	0.7	2.15	50	M8270D	12/28/2011	12/30/2011	MDK	1
Anthracene	2.56	ug/l	0.45	1.5	50	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(a)anthracene	0.99 "J"	ug/l	0.7	2.2	50	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(a)pyrene	< 0.55	ug/l	0.55	1.7	50	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(b)fluoranthene	< 0.65	ug/l	0.65	2.05	50	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(g,h,i)perylene	< 0.75	ug/l	0.75	2.4	50	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(k)fluoranthene	< 0.75	ug/l	0.75	2.35	50	M8270D	12/28/2011	12/30/2011	MDK	1
Chrysene	< 0.65	ug/l	0.65	2.1	50	M8270D	12/28/2011	12/30/2011	MDK	1
Dibenzo(a,h)anthracene	< 0.8	ug/l	0.8	2.5	50	M8270D	12/28/2011	12/30/2011	MDK	1
Fluoranthene	1.09 "J"	ug/l	0.6	1.95	50	M8270D	12/28/2011	12/30/2011	MDK	1
Fluorene	19.5	ug/l	0.4	1.25	50	M8270D	12/28/2011	12/30/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.75	ug/l	0.75	2.45	50	M8270D	12/28/2011	12/30/2011	MDK	1
1-Methyl naphthalene	183	ug/l	0.45	1.4	50	M8270D	12/28/2011	12/30/2011	MDK	1
2-Methyl naphthalene	258	ug/l	0.65	2	50	M8270D	12/28/2011	12/30/2011	MDK	1
Naphthalene	97	ug/l	0.75	2.35	50	M8270D	12/28/2011	12/30/2011	MDK	1
Phenanthrene	29	ug/l	0.5	1.65	50	M8270D	12/28/2011	12/30/2011	MDK	1
Pyrene	3.14	ug/l	0.65	2.1	50	M8270D	12/28/2011	12/30/2011	MDK	1
VOC's										
Benzene	3400	ug/l	25	80	50	8260B		12/28/2011	CJR	1
Bromobenzene	< 37	ug/l	37	120	50	8260B		12/28/2011	CJR	1
Bromodichloromethane	< 34	ug/l	34	110	50	8260B		12/28/2011	CJR	1
Bromoform	< 21.5	ug/l	21.5	70	50	8260B		12/28/2011	CJR	1
tert-Butylbenzene	< 35.5	ug/l	35.5	115	50	8260B		12/28/2011	CJR	1
sec-Butylbenzene	< 50	ug/l	50	165	50	8260B		12/28/2011	CJR	1
n-Butylbenzene	< 45	ug/l	45	145	50	8260B		12/28/2011	CJR	1
Carbon Tetrachloride	< 23.5	ug/l	23.5	75	50	8260B		12/28/2011	CJR	1
Chlorobenzene	< 25.5	ug/l	25.5	80	50	8260B		12/28/2011	CJR	1
Chloroethane	< 70	ug/l	70	225	50	8260B		12/28/2011	CJR	1
Chloroform	< 24.5	ug/l	24.5	75	50	8260B		12/28/2011	CJR	1
Chloromethane	< 95	ug/l	95	305	50	8260B		12/28/2011	CJR	1
2-Chlorotoluene	< 35	ug/l	35	110	50	8260B		12/28/2011	CJR	1
4-Chlorotoluene	< 22	ug/l	22	70	50	8260B		12/28/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	445	50	8260B		12/28/2011	CJR	1
Dibromochloromethane	< 27.5	ug/l	27.5	90	50	8260B		12/28/2011	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	155	50	8260B		12/28/2011	CJR	1
1,3-Dichlorobenzene	< 43.5	ug/l	43.5	140	50	8260B		12/28/2011	CJR	1
1,2-Dichlorobenzene	< 38	ug/l	38	120	50	8260B		12/28/2011	CJR	1
Dichlorodifluoromethane	< 90	ug/l	90	295	50	8260B		12/28/2011	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	80	50	8260B		12/28/2011	CJR	1
1,1-Dichloroethane	< 49	ug/l	49	155	50	8260B		12/28/2011	CJR	1
1,1-Dichloroethene	< 30	ug/l	30	95	50	8260B		12/28/2011	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	120	50	8260B		12/28/2011	CJR	1
trans-1,2-Dichloroethene	< 39.5	ug/l	39.5	125	50	8260B		12/28/2011	CJR	1
1,2-Dichloropropane	< 20	ug/l	20	65	50	8260B		12/28/2011	CJR	1
2,2-Dichloropropane	< 95	ug/l	95	295	50	8260B		12/28/2011	CJR	8
1,3-Dichloropropane	< 35.5	ug/l	35.5	115	50	8260B		12/28/2011	CJR	1
Di-isopropyl ether	< 34.5	ug/l	34.5	110	50	8260B		12/28/2011	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		12/28/2011	CJR	1
Ethylbenzene	370	ug/l	39	125	50	8260B		12/28/2011	CJR	1

Project Name MILWAUKEE SOUTH **Invoice #** E23259
Project # 014-002-008

Lab Code 5023259B
Sample ID MW -101
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
Hexachlorobutadiene	< 110	ug/l	110	340	50	8260B		12/28/2011	CJR	1
Isopropylbenzene	< 46	ug/l	46	145	50	8260B		12/28/2011	CJR	1
p-Isopropyltoluene	< 46	ug/l	46	145	50	8260B		12/28/2011	CJR	1
Methylene chloride	< 55	ug/l	55	170	50	8260B		12/28/2011	CJR	1
Methyl tert-butyl ether (MTBE)	180	ug/l	40	125	50	8260B		12/28/2011	CJR	1
Naphthalene	264 "J"	ug/l	105	340	50	8260B		12/28/2011	CJR	1
n-Propylbenzene	36 "J"	ug/l	29.5	95	50	8260B		12/28/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 26.5	ug/l	26.5	85	50	8260B		12/28/2011	CJR	1
1,1,1,2-Tetrachloroethane	< 50	ug/l	50	160	50	8260B		12/28/2011	CJR	1
Tetrachloroethene	< 22	ug/l	22	70	50	8260B		12/28/2011	CJR	1
Toluene	252	ug/l	26.5	85	50	8260B		12/28/2011	CJR	1
1,2,4-Trichlorobenzene	< 75	ug/l	75	230	50	8260B		12/28/2011	CJR	1
1,2,3-Trichlorobenzene	< 65	ug/l	65	210	50	8260B		12/28/2011	CJR	1
1,1,1-Trichloroethane	< 42.5	ug/l	42.5	135	50	8260B		12/28/2011	CJR	1
1,1,2-Trichloroethane	< 23.5	ug/l	23.5	75	50	8260B		12/28/2011	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		12/28/2011	CJR	1
Trichlorofluoromethane	< 85	ug/l	85	265	50	8260B		12/28/2011	CJR	1
1,2,4-Trimethylbenzene	700	ug/l	40	125	50	8260B		12/28/2011	CJR	1
1,3,5-Trimethylbenzene	208	ug/l	37	120	50	8260B		12/28/2011	CJR	1
Vinyl Chloride	< 9	ug/l	9	28	50	8260B		12/28/2011	CJR	1
m&p-Xylene	1650	ug/l	55	175	50	8260B		12/28/2011	CJR	1
o-Xylene	258	ug/l	40	130	50	8260B		12/28/2011	CJR	1
SUR - Toluene-d8	110	REC %			50	8260B		12/28/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			50	8260B		12/28/2011	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			50	8260B		12/28/2011	CJR	1
SUR - Dibromofluoromethane	105	REC %			50	8260B		12/28/2011	CJR	1

Lab Code 5023259C
Sample ID MW-102
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	11.5	ug/l	1	3.1	100	M8270D	12/28/2011	12/30/2011	MDK	1
Acenaphthylene	3.4 "J"	ug/l	1.4	4.3	100	M8270D	12/28/2011	12/30/2011	MDK	1
Anthracene	4.8	ug/l	0.9	3	100	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(a)anthracene	2.58 "J"	ug/l	1.4	4.4	100	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(a)pyrene	< 1.1	ug/l	1.1	3.4	100	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(b)fluoranthene	< 1.3	ug/l	1.3	4.1	100	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(g,h,i)perylene	< 1.5	ug/l	1.5	4.8	100	M8270D	12/28/2011	12/30/2011	MDK	1
Benzo(k)fluoranthene	< 1.5	ug/l	1.5	4.7	100	M8270D	12/28/2011	12/30/2011	MDK	1
Chrysene	< 1.3	ug/l	1.3	4.2	100	M8270D	12/28/2011	12/30/2011	MDK	1
Dibenzo(a,h)anthracene	< 1.6	ug/l	1.6	5	100	M8270D	12/28/2011	12/30/2011	MDK	1
Fluoranthene	3.9 "J"	ug/l	1.2	3.9	100	M8270D	12/28/2011	12/30/2011	MDK	1
Fluorene	23.8	ug/l	0.8	2.5	100	M8270D	12/28/2011	12/30/2011	MDK	1
Indeno(1,2,3-cd)pyrene	< 1.5	ug/l	1.5	4.9	100	M8270D	12/28/2011	12/30/2011	MDK	1
1-Methyl naphthalene	273	ug/l	0.9	2.8	100	M8270D	12/28/2011	12/30/2011	MDK	1
2-Methyl naphthalene	480	ug/l	1.3	4	100	M8270D	12/28/2011	12/30/2011	MDK	1
Naphthalene	350	ug/l	1.5	4.7	100	M8270D	12/28/2011	12/30/2011	MDK	1
Phenanthrene	39	ug/l	1	3.3	100	M8270D	12/28/2011	12/30/2011	MDK	1
Pyrene	6.3	ug/l	1.3	4.2	100	M8270D	12/28/2011	12/30/2011	MDK	1

Project Name MILWAUKEE SOUTH
Project # 014-002-008

Invoice # E23259

Lab Code 5023259C
Sample ID MW-102
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
VOC's										
Benzene	4900	ug/l	25	80	50	8260B		12/28/2011	CJR	1
Bromobenzene	< 37	ug/l	37	120	50	8260B		12/28/2011	CJR	1
Bromodichloromethane	< 34	ug/l	34	110	50	8260B		12/28/2011	CJR	1
Bromoform	< 21.5	ug/l	21.5	70	50	8260B		12/28/2011	CJR	1
tert-Butylbenzene	< 35.5	ug/l	35.5	115	50	8260B		12/28/2011	CJR	1
sec-Butylbenzene	< 50	ug/l	50	165	50	8260B		12/28/2011	CJR	1
n-Butylbenzene	58 "J"	ug/l	45	145	50	8260B		12/28/2011	CJR	1
Carbon Tetrachloride	< 23.5	ug/l	23.5	75	50	8260B		12/28/2011	CJR	1
Chlorobenzene	< 25.5	ug/l	25.5	80	50	8260B		12/28/2011	CJR	1
Chloroethane	< 70	ug/l	70	225	50	8260B		12/28/2011	CJR	1
Chloroform	< 24.5	ug/l	24.5	75	50	8260B		12/28/2011	CJR	1
Chloromethane	< 95	ug/l	95	305	50	8260B		12/28/2011	CJR	1
2-Chlorotoluene	< 35	ug/l	35	110	50	8260B		12/28/2011	CJR	1
4-Chlorotoluene	< 22	ug/l	22	70	50	8260B		12/28/2011	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	445	50	8260B		12/28/2011	CJR	3
Dibromochloromethane	< 27.5	ug/l	27.5	90	50	8260B		12/28/2011	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	155	50	8260B		12/28/2011	CJR	1
1,3-Dichlorobenzene	< 43.5	ug/l	43.5	140	50	8260B		12/28/2011	CJR	1
1,2-Dichlorobenzene	< 38	ug/l	38	120	50	8260B		12/28/2011	CJR	1
Dichlorodifluoromethane	< 90	ug/l	90	295	50	8260B		12/28/2011	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	80	50	8260B		12/28/2011	CJR	1
1,1-Dichloroethane	< 49	ug/l	49	155	50	8260B		12/28/2011	CJR	1
1,1-Dichloroethene	< 30	ug/l	30	95	50	8260B		12/28/2011	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	120	50	8260B		12/28/2011	CJR	1
trans-1,2-Dichloroethene	< 39.5	ug/l	39.5	125	50	8260B		12/28/2011	CJR	1
1,2-Dichloropropane	< 20	ug/l	20	65	50	8260B		12/28/2011	CJR	1
2,2-Dichloropropane	< 95	ug/l	95	295	50	8260B		12/28/2011	CJR	8
1,3-Dichloropropane	< 35.5	ug/l	35.5	115	50	8260B		12/28/2011	CJR	1
Di-isopropyl ether	< 34.5	ug/l	34.5	110	50	8260B		12/28/2011	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		12/28/2011	CJR	1
Ethylbenzene	1510	ug/l	39	125	50	8260B		12/28/2011	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	340	50	8260B		12/28/2011	CJR	1
Isopropylbenzene	80 "J"	ug/l	46	145	50	8260B		12/28/2011	CJR	1
p-Isopropyltoluene	< 46	ug/l	46	145	50	8260B		12/28/2011	CJR	1
Methylene chloride	< 55	ug/l	55	170	50	8260B		12/28/2011	CJR	1
Methyl tert-butyl ether (MTBE)	118 "J"	ug/l	40	125	50	8260B		12/28/2011	CJR	1
Naphthalene	640	ug/l	105	340	50	8260B		12/28/2011	CJR	1
n-Propylbenzene	217	ug/l	29.5	95	50	8260B		12/28/2011	CJR	1
1,1,2,2-Tetrachloroethane	< 26.5	ug/l	26.5	85	50	8260B		12/28/2011	CJR	3
1,1,1,2-Tetrachloroethane	< 50	ug/l	50	160	50	8260B		12/28/2011	CJR	1
Tetrachloroethene	< 22	ug/l	22	70	50	8260B		12/28/2011	CJR	1
Toluene	4600	ug/l	26.5	85	50	8260B		12/28/2011	CJR	1
1,2,4-Trichlorobenzene	< 75	ug/l	75	230	50	8260B		12/28/2011	CJR	1
1,2,3-Trichlorobenzene	< 65	ug/l	65	210	50	8260B		12/28/2011	CJR	1
1,1,1-Trichloroethane	< 42.5	ug/l	42.5	135	50	8260B		12/28/2011	CJR	1
1,1,2-Trichloroethane	< 23.5	ug/l	23.5	75	50	8260B		12/28/2011	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		12/28/2011	CJR	1
Trichlorofluoromethane	< 85	ug/l	85	265	50	8260B		12/28/2011	CJR	1
1,2,4-Trimethylbenzene	1730	ug/l	40	125	50	8260B		12/28/2011	CJR	1
1,3,5-Trimethylbenzene	460	ug/l	37	120	50	8260B		12/28/2011	CJR	1
Vinyl Chloride	< 9	ug/l	9	28	50	8260B		12/28/2011	CJR	1

Project Name MILWAUKEE SOUTH **Invoice #** E23259
Project # 014-002-008

Lab Code 5023259C
Sample ID MW-102
Sample Matrix Water
Sample Date 12/21/2011

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Dat	Analyst	Code
m&p-Xylene	5300	ug/l	55	175	50	8260B		12/28/2011	CJR	1
o-Xylene	1850	ug/l	40	130	50	8260B		12/28/2011	CJR	1
SUR - Toluene-d8	105	REC %			50	8260B		12/28/2011	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			50	8260B		12/28/2011	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			50	8260B		12/28/2011	CJR	1
SUR - Dibromofluoromethane	90	REC %			50	8260B		12/28/2011	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
3	The matrix spike not within established limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field. The laboratory analytical services associated with this report were performed in compliance with Synergy Environmental lab's Quality Assurance Program Manual.

Authorized Signature Michael J. Ricker

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 0384

Page 1 of 1

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #: 014-002-008

Sampler: (signature) TMP

Project (Name / Location): Milwaukee South

Reports To: Wade Wollermann	Invoice To:
Company Endpoint	Company SAME
Address 12065 W Janesville	Address
City State Zip Hales Corners	City State Zip
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
502329A	MW-100	12/21	130		x	N	4	GW	HCl
502329B	MW-101		150		1	1	1	1	1
C	MW-102		210		1	1	1	1	1

Analysis Requested

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS
					X					X	
					1					1	

Other Analysis

PID/FID

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment : Dahlen
Temp. of Temp. Blank. ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
TMP	715	12/22/11		1230	122211

Received in Laboratory By: Mark Time: 8:30 Date: 12-23-11

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

TIM PETRICK
ENDPOINT SOLUTIONS LLC
12065 WEST JANESVILLE ROAD
HALES CORNERS. WI 53130

Report Date *26-Mar-12*

Project Name MILWAUKEE SOUTH MANIFOLD **Invoice #** E23533
Project # 014-002-008

Lab Code 5023533A
Sample ID MW 101
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	9.7	ug/l	1.25	4.1	50	M8270D	3/20/2012	3/20/2012	MJR	1
Acenaphthylene	3.1	ug/l	0.95	3	50	M8270D	3/20/2012	3/20/2012	MJR	1
Anthracene	2.71 "J"	ug/l	0.9	2.9	50	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(a)anthracene	1.75 "J"	ug/l	1.2	3.75	50	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(a)pyrene	< 0.9	ug/l	0.9	2.9	50	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(b)fluoranthene	1.14 "J"	ug/l	1	3.3	50	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(g,h,i)perylene	< 0.95	ug/l	0.95	3	50	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(k)fluoranthene	< 1.1	ug/l	1.1	3.6	50	M8270D	3/20/2012	3/20/2012	MJR	1
Chrysene	1.28 "J"	ug/l	0.95	2.95	50	M8270D	3/20/2012	3/20/2012	MJR	1
Dibenzo(a,h)anthracene	< 0.95	ug/l	0.95	3.05	50	M8270D	3/20/2012	3/20/2012	MJR	1
Fluoranthene	2.34 "J"	ug/l	1.1	3.45	50	M8270D	3/20/2012	3/20/2012	MJR	1
Fluorene	21.6	ug/l	1	3.2	50	M8270D	3/20/2012	3/20/2012	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.9	ug/l	0.9	2.9	50	M8270D	3/20/2012	3/20/2012	MJR	1
1-Methyl naphthalene	157	ug/l	1.1	3.6	50	M8270D	3/20/2012	3/20/2012	MJR	1
2-Methyl naphthalene	219	ug/l	1.2	3.9	50	M8270D	3/20/2012	3/20/2012	MJR	1
Naphthalene	88	ug/l	1.05	3.35	50	M8270D	3/20/2012	3/20/2012	MJR	1
Phenanthrene	34	ug/l	0.95	3.1	50	M8270D	3/20/2012	3/20/2012	MJR	1
Pyrene	4.7	ug/l	1	3.25	50	M8270D	3/20/2012	3/20/2012	MJR	1
VOC's										
Benzene	4900	ug/l	25	80	50	8260B		3/23/2012	CJR	1
Bromobenzene	< 37	ug/l	37	120	50	8260B		3/23/2012	CJR	1
Bromodichloromethane	< 34	ug/l	34	110	50	8260B		3/23/2012	CJR	1
Bromoform	< 21.5	ug/l	21.5	70	50	8260B		3/23/2012	CJR	1
tert-Butylbenzene	< 35.5	ug/l	35.5	115	50	8260B		3/23/2012	CJR	1
sec-Butylbenzene	< 50	ug/l	50	165	50	8260B		3/23/2012	CJR	1
n-Butylbenzene	< 45	ug/l	45	145	50	8260B		3/23/2012	CJR	1
Carbon Tetrachloride	< 23.5	ug/l	23.5	75	50	8260B		3/23/2012	CJR	1
Chlorobenzene	< 25.5	ug/l	25.5	80	50	8260B		3/23/2012	CJR	1

Project Name MILWAUKEE SOUTH MANIFOLD **Invoice #** E23533
Project # 014-002-008

Lab Code 5023533A
Sample ID MW 101
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Chloroethane	< 70	ug/l	70	225	50	8260B		3/23/2012	CJR	1
Chloroform	< 24.5	ug/l	24.5	75	50	8260B		3/23/2012	CJR	1
Chloromethane	< 95	ug/l	95	305	50	8260B		3/23/2012	CJR	1
2-Chlorotoluene	< 35	ug/l	35	110	50	8260B		3/23/2012	CJR	1
4-Chlorotoluene	< 22	ug/l	22	70	50	8260B		3/23/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	445	50	8260B		3/23/2012	CJR	1
Dibromochloromethane	< 27.5	ug/l	27.5	90	50	8260B		3/23/2012	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	155	50	8260B		3/23/2012	CJR	1
1,3-Dichlorobenzene	< 43.5	ug/l	43.5	140	50	8260B		3/23/2012	CJR	1
1,2-Dichlorobenzene	< 38	ug/l	38	120	50	8260B		3/23/2012	CJR	1
Dichlorodifluoromethane	< 90	ug/l	90	295	50	8260B		3/23/2012	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	80	50	8260B		3/23/2012	CJR	1
1,1-Dichloroethane	< 49	ug/l	49	155	50	8260B		3/23/2012	CJR	1
1,1-Dichloroethene	< 30	ug/l	30	95	50	8260B		3/23/2012	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	120	50	8260B		3/23/2012	CJR	1
trans-1,2-Dichloroethene	< 39.5	ug/l	39.5	125	50	8260B		3/23/2012	CJR	1
1,2-Dichloropropane	< 20	ug/l	20	65	50	8260B		3/23/2012	CJR	1
2,2-Dichloropropane	< 95	ug/l	95	295	50	8260B		3/23/2012	CJR	8
1,3-Dichloropropane	< 35.5	ug/l	35.5	115	50	8260B		3/23/2012	CJR	1
Di-isopropyl ether	< 34.5	ug/l	34.5	110	50	8260B		3/23/2012	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		3/23/2012	CJR	1
Ethylbenzene	298	ug/l	39	125	50	8260B		3/23/2012	CJR	1
Hexachlorobutadiene	< 110	ug/l	110	340	50	8260B		3/23/2012	CJR	1
Isopropylbenzene	< 46	ug/l	46	145	50	8260B		3/23/2012	CJR	1
p-Isopropyltoluene	< 46	ug/l	46	145	50	8260B		3/23/2012	CJR	1
Methylene chloride	< 55	ug/l	55	170	50	8260B		3/23/2012	CJR	1
Methyl tert-butyl ether (MTBE)	240	ug/l	40	125	50	8260B		3/23/2012	CJR	1
Naphthalene	130 "J"	ug/l	105	340	50	8260B		3/23/2012	CJR	1
n-Propylbenzene	< 29.5	ug/l	29.5	95	50	8260B		3/23/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 26.5	ug/l	26.5	85	50	8260B		3/23/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 50	ug/l	50	160	50	8260B		3/23/2012	CJR	1
Tetrachloroethene	< 22	ug/l	22	70	50	8260B		3/23/2012	CJR	1
Toluene	148	ug/l	26.5	85	50	8260B		3/23/2012	CJR	1
1,2,4-Trichlorobenzene	< 75	ug/l	75	230	50	8260B		3/23/2012	CJR	1
1,2,3-Trichlorobenzene	< 65	ug/l	65	210	50	8260B		3/23/2012	CJR	1
1,1,1-Trichloroethane	< 42.5	ug/l	42.5	135	50	8260B		3/23/2012	CJR	1
1,1,2-Trichloroethane	< 23.5	ug/l	23.5	75	50	8260B		3/23/2012	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		3/23/2012	CJR	1
Trichlorofluoromethane	< 85	ug/l	85	265	50	8260B		3/23/2012	CJR	1
1,2,4-Trimethylbenzene	330	ug/l	40	125	50	8260B		3/23/2012	CJR	1
1,3,5-Trimethylbenzene	134	ug/l	37	120	50	8260B		3/23/2012	CJR	1
Vinyl Chloride	< 9	ug/l	9	28	50	8260B		3/23/2012	CJR	1
m&p-Xylene	770	ug/l	55	175	50	8260B		3/23/2012	CJR	1
o-Xylene	72 "J"	ug/l	40	130	50	8260B		3/23/2012	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			50	8260B		3/23/2012	CJR	1
SUR - Dibromofluoromethane	92	REC %			50	8260B		3/23/2012	CJR	1
SUR - Toluene-d8	98	REC %			50	8260B		3/23/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	91	REC %			50	8260B		3/23/2012	CJR	1

Project Name MILWAUKEE SOUTH MANIFOLD **Invoice #** E23533
Project # 014-002-008

Lab Code 5023533B
Sample ID MW 102
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.6 "J"	ug/l	0.25	0.82	10	M8270D	3/20/2012	3/21/2012	MJR	1
Acenaphthylene	< 0.19	ug/l	0.19	0.6	10	M8270D	3/20/2012	3/21/2012	MJR	1
Anthracene	< 0.18	ug/l	0.18	0.58	10	M8270D	3/20/2012	3/21/2012	MJR	1
Benzo(a)anthracene	< 0.24	ug/l	0.24	0.75	10	M8270D	3/20/2012	3/21/2012	MJR	1
Benzo(a)pyrene	< 0.18	ug/l	0.18	0.58	10	M8270D	3/20/2012	3/21/2012	MJR	1
Benzo(b)fluoranthene	< 0.2	ug/l	0.2	0.66	10	M8270D	3/20/2012	3/21/2012	MJR	1
Benzo(g,h,i)perylene	< 0.19	ug/l	0.19	0.6	10	M8270D	3/20/2012	3/21/2012	MJR	1
Benzo(k)fluoranthene	< 0.22	ug/l	0.22	0.72	10	M8270D	3/20/2012	3/21/2012	MJR	1
Chrysene	< 0.19	ug/l	0.19	0.59	10	M8270D	3/20/2012	3/21/2012	MJR	1
Dibenzo(a,h)anthracene	< 0.19	ug/l	0.19	0.61	10	M8270D	3/20/2012	3/21/2012	MJR	1
Fluoranthene	< 0.22	ug/l	0.22	0.69	10	M8270D	3/20/2012	3/21/2012	MJR	1
Fluorene	0.55 "J"	ug/l	0.2	0.64	10	M8270D	3/20/2012	3/21/2012	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.18	ug/l	0.18	0.58	10	M8270D	3/20/2012	3/21/2012	MJR	1
1-Methyl naphthalene	2.33	ug/l	0.22	0.72	10	M8270D	3/20/2012	3/21/2012	MJR	1
2-Methyl naphthalene	0.41 "J"	ug/l	0.24	0.78	10	M8270D	3/20/2012	3/21/2012	MJR	1
Naphthalene	5.1	ug/l	0.21	0.67	10	M8270D	3/20/2012	3/21/2012	MJR	1
Phenanthrene	< 0.19	ug/l	0.19	0.62	10	M8270D	3/20/2012	3/21/2012	MJR	1
Pyrene	< 0.2	ug/l	0.2	0.65	10	M8270D	3/20/2012	3/21/2012	MJR	1
VOC's										
Benzene	4900	ug/l	25	80	50	8260B		3/23/2012	CJR	1
Bromobenzene	< 37	ug/l	37	120	50	8260B		3/23/2012	CJR	1
Bromodichloromethane	< 34	ug/l	34	110	50	8260B		3/23/2012	CJR	1
Bromoform	< 21.5	ug/l	21.5	70	50	8260B		3/23/2012	CJR	1
tert-Butylbenzene	< 35.5	ug/l	35.5	115	50	8260B		3/23/2012	CJR	1
sec-Butylbenzene	< 50	ug/l	50	165	50	8260B		3/23/2012	CJR	1
n-Butylbenzene	52 "J"	ug/l	45	145	50	8260B		3/23/2012	CJR	1
Carbon Tetrachloride	< 23.5	ug/l	23.5	75	50	8260B		3/23/2012	CJR	1
Chlorobenzene	< 25.5	ug/l	25.5	80	50	8260B		3/23/2012	CJR	1
Chloroethane	< 70	ug/l	70	225	50	8260B		3/23/2012	CJR	1
Chloroform	< 24.5	ug/l	24.5	75	50	8260B		3/23/2012	CJR	1
Chloromethane	< 95	ug/l	95	305	50	8260B		3/23/2012	CJR	1
2-Chlorotoluene	< 35	ug/l	35	110	50	8260B		3/23/2012	CJR	1
4-Chlorotoluene	< 22	ug/l	22	70	50	8260B		3/23/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	445	50	8260B		3/23/2012	CJR	1
Dibromochloromethane	< 27.5	ug/l	27.5	90	50	8260B		3/23/2012	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	155	50	8260B		3/23/2012	CJR	1
1,3-Dichlorobenzene	< 43.5	ug/l	43.5	140	50	8260B		3/23/2012	CJR	1
1,2-Dichlorobenzene	< 38	ug/l	38	120	50	8260B		3/23/2012	CJR	1
Dichlorodifluoromethane	< 90	ug/l	90	295	50	8260B		3/23/2012	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	80	50	8260B		3/23/2012	CJR	1
1,1-Dichloroethane	< 49	ug/l	49	155	50	8260B		3/23/2012	CJR	1
1,1-Dichloroethene	< 30	ug/l	30	95	50	8260B		3/23/2012	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	120	50	8260B		3/23/2012	CJR	1
trans-1,2-Dichloroethene	< 39.5	ug/l	39.5	125	50	8260B		3/23/2012	CJR	1
1,2-Dichloropropane	< 20	ug/l	20	65	50	8260B		3/23/2012	CJR	1
2,2-Dichloropropane	< 95	ug/l	95	295	50	8260B		3/23/2012	CJR	8
1,3-Dichloropropane	< 35.5	ug/l	35.5	115	50	8260B		3/23/2012	CJR	1
Di-isopropyl ether	< 34.5	ug/l	34.5	110	50	8260B		3/23/2012	CJR	1
EDB (1,2-Dibromoethane)	< 31.5	ug/l	31.5	100	50	8260B		3/23/2012	CJR	1
Ethylbenzene	460	ug/l	39	125	50	8260B		3/23/2012	CJR	1

Project Name MILWAUKEE SOUTH MANIFOLD **Invoice #** E23533
Project # 014-002-008

Lab Code 5023533B
Sample ID MW 102
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Hexachlorobutadiene	< 110	ug/l	110	340	50	8260B		3/23/2012	CJR	1
Isopropylbenzene	< 46	ug/l	46	145	50	8260B		3/23/2012	CJR	1
p-Isopropyltoluene	< 46	ug/l	46	145	50	8260B		3/23/2012	CJR	1
Methylene chloride	< 55	ug/l	55	170	50	8260B		3/23/2012	CJR	1
Methyl tert-butyl ether (MTBE)	410	ug/l	40	125	50	8260B		3/23/2012	CJR	1
Naphthalene	224 "J"	ug/l	105	340	50	8260B		3/23/2012	CJR	1
n-Propylbenzene	90 "J"	ug/l	29.5	95	50	8260B		3/23/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 26.5	ug/l	26.5	85	50	8260B		3/23/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 50	ug/l	50	160	50	8260B		3/23/2012	CJR	1
Tetrachloroethene	< 22	ug/l	22	70	50	8260B		3/23/2012	CJR	1
Toluene	710	ug/l	26.5	85	50	8260B		3/23/2012	CJR	1
1,2,4-Trichlorobenzene	< 75	ug/l	75	230	50	8260B		3/23/2012	CJR	1
1,2,3-Trichlorobenzene	< 65	ug/l	65	210	50	8260B		3/23/2012	CJR	1
1,1,1-Trichloroethane	< 42.5	ug/l	42.5	135	50	8260B		3/23/2012	CJR	1
1,1,2-Trichloroethane	< 23.5	ug/l	23.5	75	50	8260B		3/23/2012	CJR	1
Trichloroethene (TCE)	< 23.5	ug/l	23.5	75	50	8260B		3/23/2012	CJR	1
Trichlorofluoromethane	< 85	ug/l	85	265	50	8260B		3/23/2012	CJR	1
1,2,4-Trimethylbenzene	1020	ug/l	40	125	50	8260B		3/23/2012	CJR	1
1,3,5-Trimethylbenzene	291	ug/l	37	120	50	8260B		3/23/2012	CJR	1
Vinyl Chloride	< 9	ug/l	9	28	50	8260B		3/23/2012	CJR	1
m&p-Xylene	2290	ug/l	55	175	50	8260B		3/23/2012	CJR	1
o-Xylene	710	ug/l	40	130	50	8260B		3/23/2012	CJR	1
SUR - Toluene-d8	97	REC %			50	8260B		3/23/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			50	8260B		3/23/2012	CJR	1
SUR - 4-Bromofluorobenzene	95	REC %			50	8260B		3/23/2012	CJR	1
SUR - Dibromofluoromethane	93	REC %			50	8260B		3/23/2012	CJR	1

Lab Code 5023533C
Sample ID MW 100
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	6.5	ug/l	0.25	0.82	10	M8270D	3/20/2012	3/20/2012	MJR	1
Acenaphthylene	1.47	ug/l	0.19	0.6	10	M8270D	3/20/2012	3/20/2012	MJR	1
Anthracene	1.17	ug/l	0.18	0.58	10	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(a)anthracene	0.81	ug/l	0.24	0.75	10	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(a)pyrene	0.252 "J"	ug/l	0.18	0.58	10	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(b)fluoranthene	0.46 "J"	ug/l	0.2	0.66	10	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(g,h,i)perylene	< 0.19	ug/l	0.19	0.6	10	M8270D	3/20/2012	3/20/2012	MJR	1
Benzo(k)fluoranthene	0.237 "J"	ug/l	0.22	0.72	10	M8270D	3/20/2012	3/20/2012	MJR	1
Chrysene	0.54 "J"	ug/l	0.19	0.59	10	M8270D	3/20/2012	3/20/2012	MJR	1
Dibenzo(a,h)anthracene	< 0.19	ug/l	0.19	0.61	10	M8270D	3/20/2012	3/20/2012	MJR	1
Fluoranthene	1.99	ug/l	0.22	0.69	10	M8270D	3/20/2012	3/20/2012	MJR	1
Fluorene	9.5	ug/l	0.2	0.64	10	M8270D	3/20/2012	3/20/2012	MJR	1
Indeno(1,2,3-cd)pyrene	< 0.18	ug/l	0.18	0.58	10	M8270D	3/20/2012	3/20/2012	MJR	1
1-Methyl naphthalene	29.7	ug/l	0.22	0.72	10	M8270D	3/20/2012	3/20/2012	MJR	1
2-Methyl naphthalene	69	ug/l	0.24	0.78	10	M8270D	3/20/2012	3/20/2012	MJR	1
Naphthalene	53	ug/l	0.21	0.67	10	M8270D	3/20/2012	3/20/2012	MJR	1
Phenanthrene	17.3	ug/l	0.19	0.62	10	M8270D	3/20/2012	3/20/2012	MJR	1
Pyrene	2.4	ug/l	0.2	0.65	10	M8270D	3/20/2012	3/20/2012	MJR	1

Project Name MILWAUKEE SOUTH MANIFOLD **Invoice #** E23533
Project # 014-002-008

Lab Code 5023533C
Sample ID MW 100
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
VOC's										
Benzene	1290	ug/l	5	16	10	8260B		3/23/2012	CJR	1
Bromobenzene	< 7.4	ug/l	7.4	24	10	8260B		3/23/2012	CJR	1
Bromodichloromethane	< 6.8	ug/l	6.8	22	10	8260B		3/23/2012	CJR	1
Bromoform	< 4.3	ug/l	4.3	14	10	8260B		3/23/2012	CJR	1
tert-Butylbenzene	< 7.1	ug/l	7.1	23	10	8260B		3/23/2012	CJR	1
sec-Butylbenzene	< 10	ug/l	10	33	10	8260B		3/23/2012	CJR	1
n-Butylbenzene	16.4 "J"	ug/l	9	29	10	8260B		3/23/2012	CJR	1
Carbon Tetrachloride	< 4.7	ug/l	4.7	15	10	8260B		3/23/2012	CJR	1
Chlorobenzene	< 5.1	ug/l	5.1	16	10	8260B		3/23/2012	CJR	1
Chloroethane	< 14	ug/l	14	45	10	8260B		3/23/2012	CJR	1
Chloroform	< 4.9	ug/l	4.9	15	10	8260B		3/23/2012	CJR	1
Chloromethane	< 19	ug/l	19	61	10	8260B		3/23/2012	CJR	1
2-Chlorotoluene	< 7	ug/l	7	22	10	8260B		3/23/2012	CJR	1
4-Chlorotoluene	< 4.4	ug/l	4.4	14	10	8260B		3/23/2012	CJR	1
1,2-Dibromo-3-chloropropane	< 28	ug/l	28	89	10	8260B		3/23/2012	CJR	1
Dibromochloromethane	< 5.5	ug/l	5.5	18	10	8260B		3/23/2012	CJR	1
1,4-Dichlorobenzene	< 9.8	ug/l	9.8	31	10	8260B		3/23/2012	CJR	1
1,3-Dichlorobenzene	< 8.7	ug/l	8.7	28	10	8260B		3/23/2012	CJR	1
1,2-Dichlorobenzene	< 7.6	ug/l	7.6	24	10	8260B		3/23/2012	CJR	1
Dichlorodifluoromethane	< 18	ug/l	18	59	10	8260B		3/23/2012	CJR	1
1,2-Dichloroethane	< 5	ug/l	5	16	10	8260B		3/23/2012	CJR	1
1,1-Dichloroethane	< 9.8	ug/l	9.8	31	10	8260B		3/23/2012	CJR	1
1,1-Dichloroethene	< 6	ug/l	6	19	10	8260B		3/23/2012	CJR	1
cis-1,2-Dichloroethene	< 7.4	ug/l	7.4	24	10	8260B		3/23/2012	CJR	1
trans-1,2-Dichloroethene	< 7.9	ug/l	7.9	25	10	8260B		3/23/2012	CJR	1
1,2-Dichloropropane	< 4	ug/l	4	13	10	8260B		3/23/2012	CJR	1
2,2-Dichloropropane	< 19	ug/l	19	59	10	8260B		3/23/2012	CJR	8
1,3-Dichloropropane	< 7.1	ug/l	7.1	23	10	8260B		3/23/2012	CJR	1
Di-isopropyl ether	< 6.9	ug/l	6.9	22	10	8260B		3/23/2012	CJR	1
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		3/23/2012	CJR	1
Ethylbenzene	264	ug/l	7.8	25	10	8260B		3/23/2012	CJR	1
Hexachlorobutadiene	< 22	ug/l	22	68	10	8260B		3/23/2012	CJR	1
Isopropylbenzene	< 9.2	ug/l	9.2	29	10	8260B		3/23/2012	CJR	1
p-Isopropyltoluene	< 9.2	ug/l	9.2	29	10	8260B		3/23/2012	CJR	1
Methylene chloride	< 11	ug/l	11	34	10	8260B		3/23/2012	CJR	1
Methyl tert-butyl ether (MTBE)	< 8	ug/l	8	25	10	8260B		3/23/2012	CJR	1
Naphthalene	57 "J"	ug/l	21	68	10	8260B		3/23/2012	CJR	1
n-Propylbenzene	14.4 "J"	ug/l	5.9	19	10	8260B		3/23/2012	CJR	1
1,1,2,2-Tetrachloroethane	< 5.3	ug/l	5.3	17	10	8260B		3/23/2012	CJR	1
1,1,1,2-Tetrachloroethane	< 10	ug/l	10	32	10	8260B		3/23/2012	CJR	1
Tetrachloroethene	< 4.4	ug/l	4.4	14	10	8260B		3/23/2012	CJR	1
Toluene	66	ug/l	5.3	17	10	8260B		3/23/2012	CJR	1
1,2,4-Trichlorobenzene	< 15	ug/l	15	46	10	8260B		3/23/2012	CJR	1
1,2,3-Trichlorobenzene	< 13	ug/l	13	42	10	8260B		3/23/2012	CJR	1
1,1,1-Trichloroethane	< 8.5	ug/l	8.5	27	10	8260B		3/23/2012	CJR	1
1,1,2-Trichloroethane	< 4.7	ug/l	4.7	15	10	8260B		3/23/2012	CJR	1
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		3/23/2012	CJR	1
Trichlorofluoromethane	< 17	ug/l	17	53	10	8260B		3/23/2012	CJR	1
1,2,4-Trimethylbenzene	185	ug/l	8	25	10	8260B		3/23/2012	CJR	1
1,3,5-Trimethylbenzene	115	ug/l	7.4	24	10	8260B		3/23/2012	CJR	1
Vinyl Chloride	< 1.8	ug/l	1.8	5.6	10	8260B		3/23/2012	CJR	1

Project Name MILWAUKEE SOUTH MANIFOLD **Invoice #** E23533
Project # 014-002-008

Lab Code 5023533C
Sample ID MW 100
Sample Matrix Water
Sample Date 3/14/2012

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
m&p-Xylene	390	ug/l	11	35	10	8260B		3/23/2012	CJR	1
o-Xylene	18.8 "J"	ug/l	8	26	10	8260B		3/23/2012	CJR	1
SUR - Toluene-d8	95	REC %			10	8260B		3/23/2012	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			10	8260B		3/23/2012	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			10	8260B		3/23/2012	CJR	1
SUR - Dibromofluoromethane	93	REC %			10	8260B		3/23/2012	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
8	Closing calibration standard not within established limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature Michael J. Ricker

CHAIN C CUSTODY RECORD

Synergy
Environmental Lab, Inc.
1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 0193
Page 1 of 1

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #	
Account No. :	Quote No.:
Project #:	014-002-008
Sampler: (signature)	
Project (Name / Location):	Milwaukee South Manifold
Reports To: Tim Petrus	Invoice To:
Company: Endpoint Solutions	Company
Address: 2065 W Innsville	Address
City State Zip: Lakes Corners	City State Zip
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	IRON	LEAD	NITRATE / NITRITE	PAH (EPA 8270)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
522533A	MW 101	3/14	215		X	N	4	GW	Hcl						X					X		
B	MW 102	↓	230		X	N	4	GW							X					XX		
C	MW 100	↓	200		X	N	4	GW	↓						X					X		

Analysis Requested — Other Analysis

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment : Dunkers
Temp. of Temp. Blank. ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	730	3/15/12		3/15/12	1230

Received in Laboratory By: Time: 8:10 Date: 3/16/12