

Source Property Information

BRRTS #: 03-60-003726

ACTIVITY NAME: PLYMOUTH OIL CO

PROPERTY ADDRESS: 1611 Eastern Ave

MUNICIPALITY: Plymouth

PARCEL ID #: 59271805210

CLOSURE DATE: Sep 20, 2002

FID #: 460072690

DATCP #:

COMM #: 53073208911

***WTM COORDINATES:**

X: 684121 Y: 365773

** Coordinates are in
WTM83, NAD83 (1991)***WTM COORDINATES REPRESENT:** Approximate Center Of Contaminant Source Approximate Source Parcel Center**Please check as appropriate:** (BRRTS Action Code)**Contaminated Media:** Groundwater Contamination > ES (236) Contamination in ROW Off-Source Contamination*(note: for list of off-source properties
see "Impacted Off-Source Property" form)* Soil Contamination > *RCL or **SSRCL (232) Contamination in ROW Off-Source Contamination*(note: for list of off-source properties
see "Impacted Off-Source Property" form)***Land Use Controls:** N/A (Not Applicable) Soil: maintain industrial zoning (220)*(note: soil contamination concentrations
between non-industrial and industrial levels)* Structural Impediment (224) Site Specific Condition (228) Cover or Barrier (222)*(note: maintenance plan for
groundwater or direct contact)* Vapor Mitigation (226) Maintain Liability Exemption (230)*(note: local government unit or economic
development corporation was directed to
take a response action)*

ROW Soil Contamination
has been removed near
this site. Information
regarding the soil
investigation and removal
has been added to this
document.

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? (234)

 Yes No N/A** Residual Contaminant Level****Site Specific Residual Contaminant Level*

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 03-60-003726 PARCEL ID #: 59271805210
ACTIVITY NAME: PLYMOUTH OIL CO WTM COORDINATES: X: 684121 Y: 365773

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- Conditional Closure Letter**
- Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: **Title:**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: **Title:**
- Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 5 **Title: Proposed Geoprobe and Monitoring Well Locations**
- Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: **Title:**

BRRTS #: 03-60-003726

ACTIVITY NAME: PLYMOUTH OIL CO

MAPS (continued)

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 4-1 **Title: Hydrogeologic Cross Sections**

Figure #: **Title:**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

Note: This is intended to show the total area of contaminated groundwater.

Figure #: **Title:**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 4 **Title: Shallow Groundwater Flow Direction**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 1 **Title: Summary of Soils Analyses**

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 3 **Title: Groundwater PVOC Results**

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: 4 **Title: Groundwater Elevations**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

Note: If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

Note: If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

Figure #: **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRS #: 03-60-003726

ACTIVITY NAME: PLYMOUTH OIL CO

NOTIFICATIONS

Source Property

Not Applicable

Letter To Current Source Property Owner: If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

Not Applicable

Letter To "Off-Source" Property Owners: Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.

Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

Number of "Off-Source" Letters:

Return Receipt/Signature Confirmation: Written proof of date on which confirmation was received for notifying any off-source property owner.

Deed of "Off-Source" Property: The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.

Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.

Letter To "Governmental Unit/Right-Of-Way" Owners: Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:



ENVIRONMENTAL & REGULATORY SERVICES DIVISION
BUREAU OF PECFA
101 West Pleasant Street, Suite 100A
Milwaukee, Wisconsin 53212-3963
TDD #: (608) 264-8777
Fax #: (414) 220-5374
<http://www.commerce.state.wi.us>
<http://www.wisconsin.gov>
Scott McCallum, Governor
Philip Edw. Albert, Secretary

September 20, 2002

Mr. John Slabe
Plymouth Oil, Inc.
P.O. Box 237
Plymouth, WI 53073-0237

RE: **Final Closure**

Commerce # 53073-2089-11 **WDNR BRRTS # 03-60-003726**
Plymouth Oil Co., 1611 Eastern Avenue, Plymouth

One diesel and three gasoline underground storage tank systems in use

Dear Mr. Slabe:

The Wisconsin Department of Commerce (Commerce) has received all items required for closure of the site referenced above. This site is now listed as "closed" on the Commerce database.

It is in your best interest to keep all documentation related to the environmental activities at your site. If residual contamination is encountered in the future, appropriate measures must be implemented to assure that it is managed following all applicable regulations. If future site conditions indicate that any remaining contamination poses a threat, and subsequent information indicates a need to reopen this case, any original claim under the PECFA fund would also reopen and you may apply for assistance to the extent of remaining eligibility.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (414) 220-5376.

Sincerely,

A handwritten signature in black ink, appearing to read 'L. M. Michalets', with a long horizontal flourish extending to the right.

Linda M. Michalets
Hydrogeologist
Site Review Section

cc: Mr. Kevin Cooper, Cooper Environmental
Case File

the future, it may be considered a solid waste and will need to be disposed in accordance with all applicable laws.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Commerce, or its successor, issue a determination that the restrictions set forth in this covenant are no longer required. That property owner shall provide any and all necessary information to the Department in order for the Department to be able to make a determination. Upon receipt of such a request, the Department shall determine whether or not the restrictions contained herein can be extinguished. Conditions under which a restriction may be extinguished will be determined in accordance with the site specific standards, rules and laws for this property. If the Department determines that the restrictions can be extinguished, an affidavit, with a copy of the Department's written determination, may be recorded to give notice that this restriction, or portions of this restriction are no longer binding. Any restriction placed upon this property shall not be extinguished without the Department's written determination.

IN WITNESS WHEREOF, the owner of the property has executed this document, this 14 day of December, 2001.

[When appropriate use the following clause]:

By signing this document, [he/she] acknowledges that [he/she] is duly authorized to sign this document on behalf of Plymouth Oil Inc.

Signature: John Slabo

Printed Name: John Slabo

Title: President

Subscribed and sworn to before me this 18 day of Dec, 2001.

Mary A Brackmann
Notary Public, State of WI
My commission 10-5-2003

This document was drafted by the Wisconsin Department of Commerce.

Full Tax Parcel Description

These descriptions are for the purpose of compliance with Chapter 70.09, Wisconsin State Statutes. Courses and distances are extracted from the public record, and are often developed from more than one, incompatible source. Actual descriptions are available from the Sheboygan County Register of Deeds office. The descriptions listed on this page should not be considered a substitute for any but the most general purposes.

NOTE: Recorded Descriptions are available online at: [Tapestry - Public Information on the Internet](#)

Parcel Number: 59271805210

Situs Address: 1611 EASTERN AVE

ASSESS. PLAT NO. 2 LOT 1

Close



Search



Parcel ID



Parcel Address

Tools



Identify



Zoom In



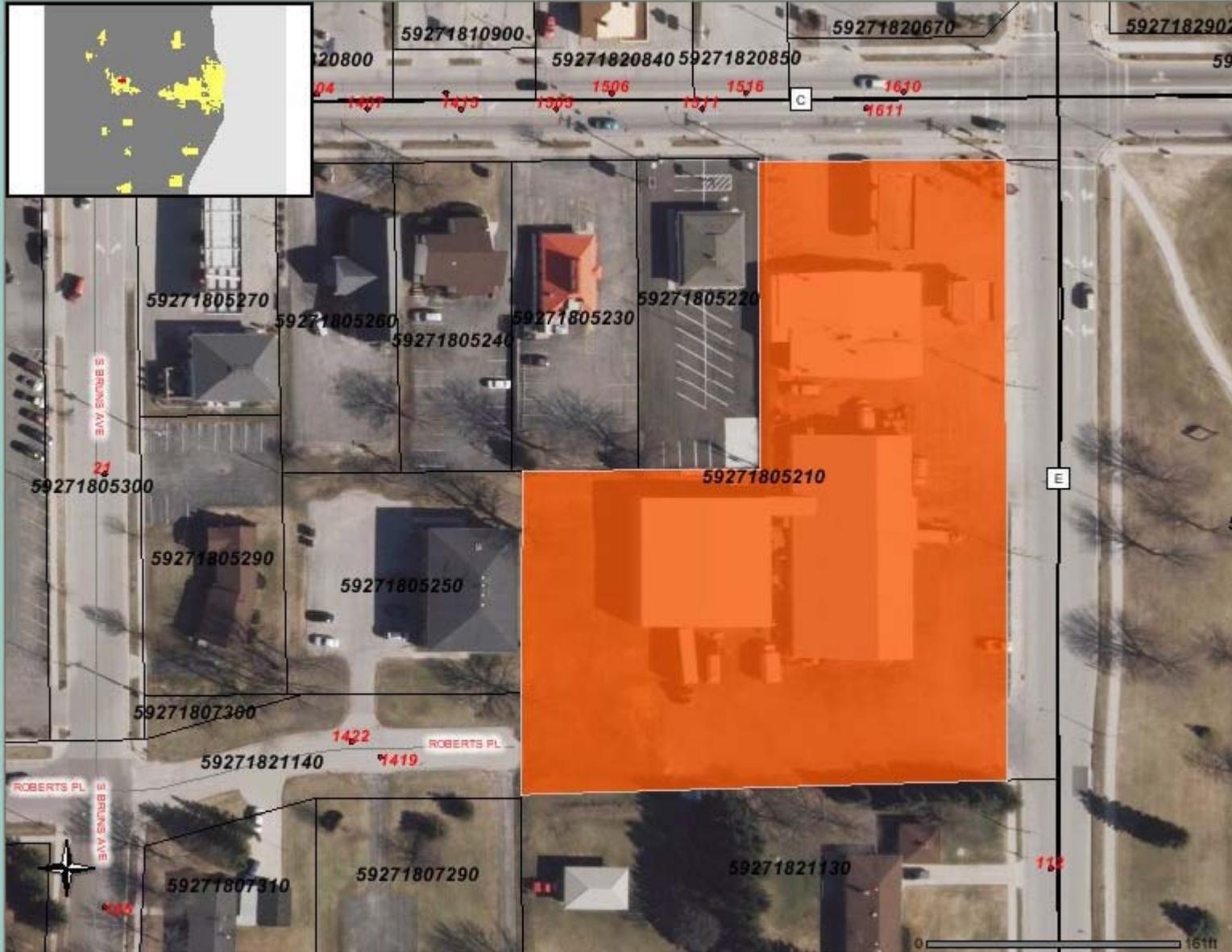
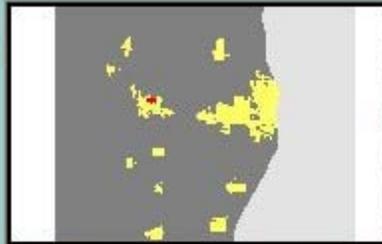
Zoom Out



Full Extent



Pan



Tax Parcels

Rec	Parcel ID	Click	Site Address	Land Val	Improv Val	Property Val
1	59271805210	Tax Parcel Data	1611 EASTERN AVE	277,600.00	524,500.00	802,000.00

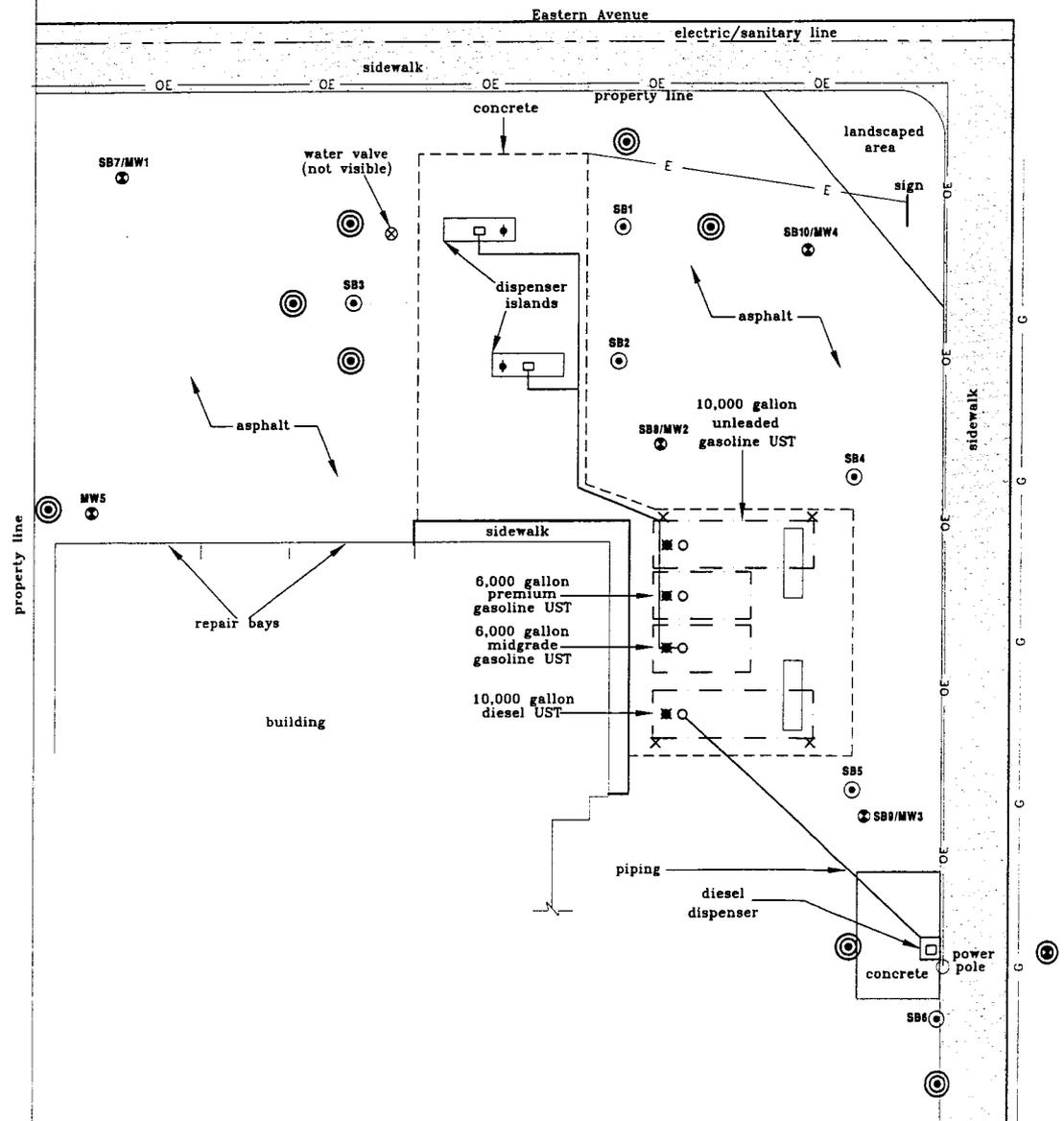
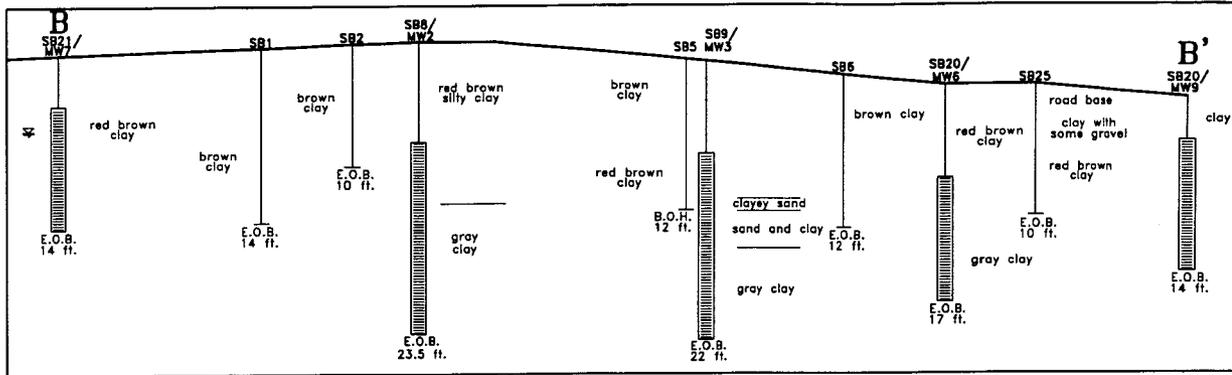
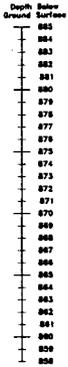


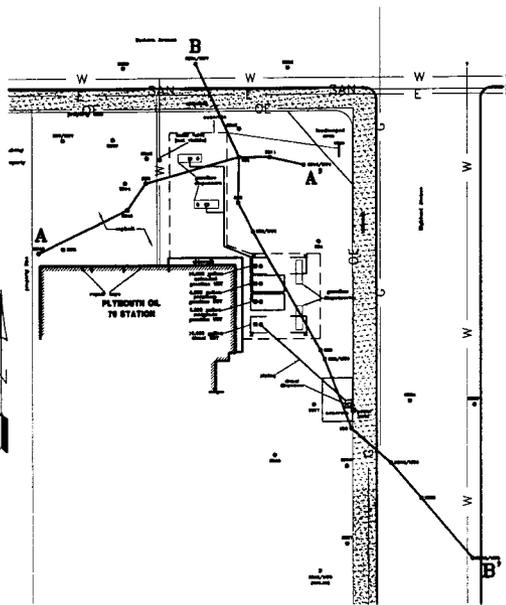
Figure 5
PROPOSED GEOPROBE AND
MONITORING WELL LOCATIONS
Plymouth Oil, Inc.
1611 Eastern Avenue
Plymouth, WI

- ⊙ - proposed monitoring well location
 - ⊕ - proposed geoprobe sample location
 - MW5 ⊕ - monitoring well location and I.D.
 - SB8 ⊕ - geoprobe sample location and I.D.
 - × - sump
 - - fill pipe
 - - pump
 - G— - natural gas line
 - OE— - overhead electric line
 - E— - buried electric line
- Note: MW5 installed prior to 1994

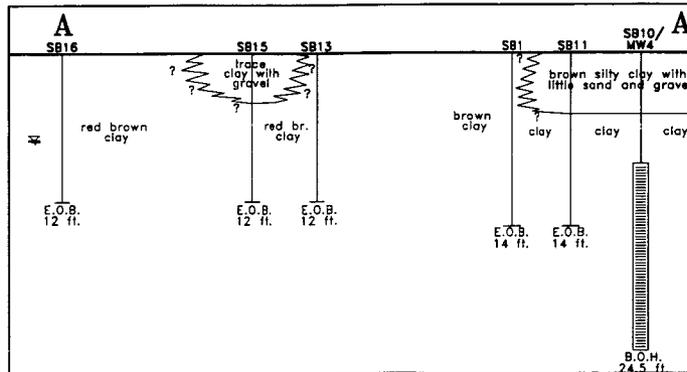
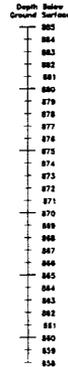
date:	drafted by:	checked by:	approved by:
7/25/96	POE		



CROSS SECTION B-B'
SCALE: VERT 1"=10' HORIZ 1"=30'



CROSS-SECTION REFERENCE MAP
(A to A' and B to B') Scale: 1" = 60'



CROSS SECTION A-A'
SCALE: VERT 1"=10' HORIZ 1"=30'

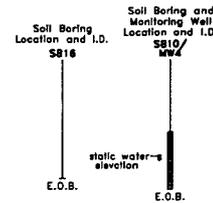


Figure 4-1

**HYDROGEOLOGIC
CROSS SECTIONS**

Plymouth Oil, Inc.
1611 Eastern Avenue
Plymouth, WI

- MW5 ⊕ - monitoring well location and I.D.
- SB6 ● - geoprobe sample location and I.D.
- × - sump
- - fill pipe
- - pump

- G ———— - natural gas line
- OE ———— - overhead electric line
- E ———— - buried electric line
- SAN ———— - sanitary sewer line
- SS ———— SS ———— - storm sewer line
- T ———— - telephone line
- W ———— - buried water line

Note: MW5 installed prior to 1994

DATE	DRAFTED BY:	CHECKED BY:	APPROVED BY:
12/11/97	CAY		SKB

Cooper

Environmental & Engineering Resources Inc.
1411 North Main Street, West Bend, Wisconsin 53090
file: C:/DWGS/PLYMTH_O/XSECTION

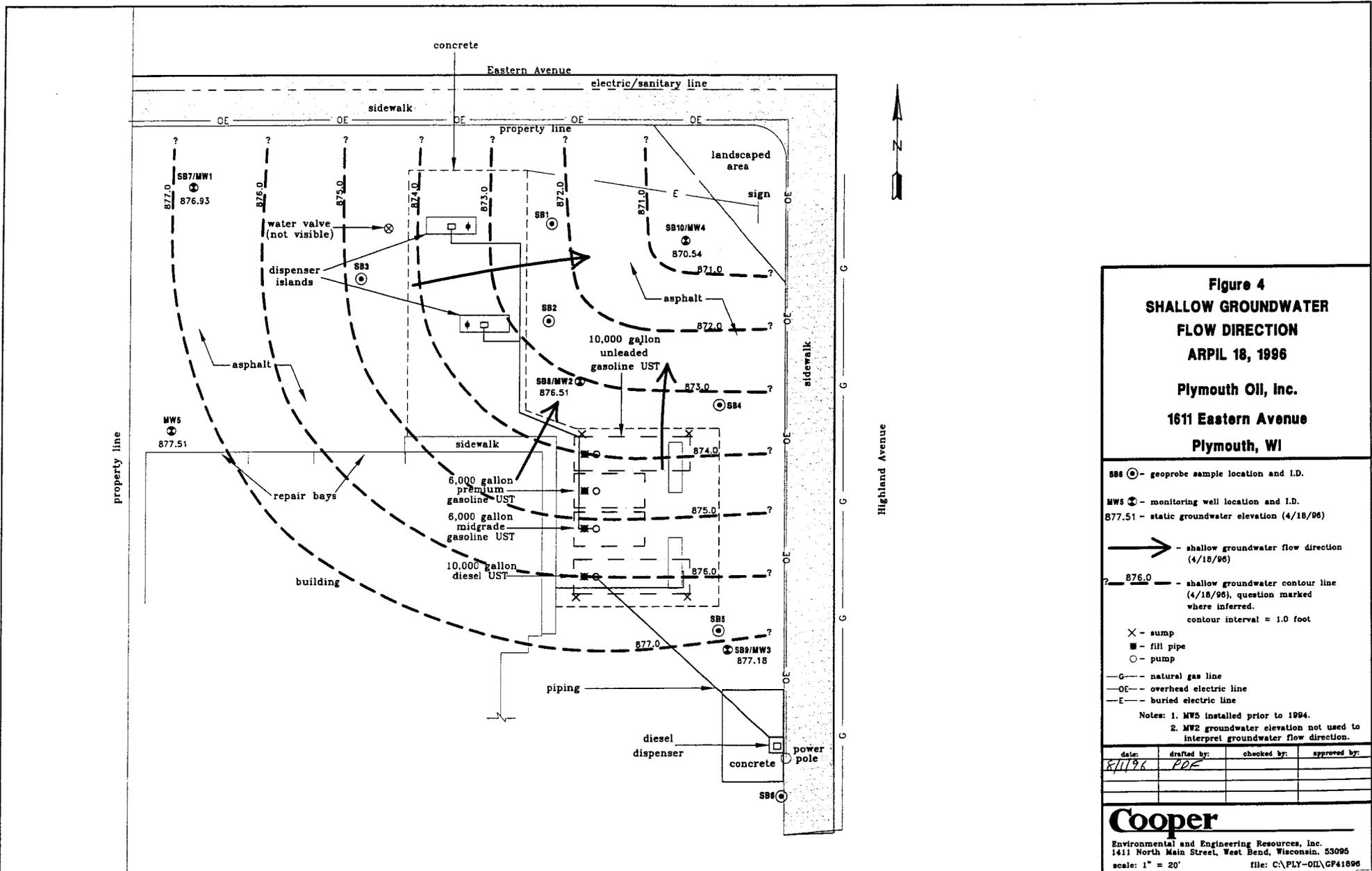


Figure 4
SHALLOW GROUNDWATER
FLOW DIRECTION
APRIL 18, 1996
Plymouth Oil, Inc.
1611 Eastern Avenue
Plymouth, WI

SB# (circle with dot) - geoprobe sample location and I.D.
 MW# (circle with cross) - monitoring well location and I.D.
 877.51 - static groundwater elevation (4/18/96)

→ - shallow groundwater flow direction (4/18/96)
 ? - 876.0 - shallow groundwater contour line (4/18/96), question marked where inferred.
 contour interval = 1.0 foot

X - sump
 ■ - fill pipe
 ○ - pump
 -G- - natural gas line
 -OE- - overhead electric line
 -E- - buried electric line

Notes: 1. MW5 installed prior to 1994.
 2. MW2 groundwater elevation not used to interpret groundwater flow direction.

date:	drafted by:	checked by:	approved by:
8/17/96	PDE		

Table 1
 Summary of Soils Analyses, Soil Boring Samples
 Plymouth Oil, Incorporated
 1611 Eastern Avenue
 Plymouth, Wisconsin

Sample Number	PO-SB1-03	PO-SB1-07	PO-SB2-02	PO-SB2-04	PO-SB3-03	PO-SB3-06	PO-SB4-04	PO-SB4-07	PO-SB5-03	PO-SB5-05	Residual Contaminant Levels (RCL)
Date	9/22/94	9/22/94	9/22/94	9/22/94	9/22/94	9/22/94	9/22/94	9/22/94	9/22/94	9/22/94	
Depth (feet)	4-6	12-14	2-4	6-8	4-6	10-12	6-8	12-14	4-6	8-10	
OVM (i.u.)	1,368	0.0	5.8	0.0	602	15.1	311	0.0	19.5	0.0	
Soil Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Silty Clay	Clay	
VOCs DETECTED (µg/kg)											
Benzene	13,000	170	4.6	ND(<1.2)	ND(<140)	2,400	ND(<140)	ND(<1.1)	10	ND(<5.7)	5.5
n-Butylbenzene	11,000	ND(<1.1)	ND(<1.2)	ND(<1.2)	ND(<140)	ND(<140)	390	ND(<1.1)	120	13	NA
sec-Butylbenzene	ND(<2,700)	ND(<1.1)	5.1	ND(<1.2)	ND(<140)	ND(<140)	ND(<140)	ND(<1.1)	160	52	NA
1,2-Dichloroethane	ND(<2,700)	36	ND(<1.2)	ND(<1.2)	ND(<140)	ND(<140)	ND(<140)	1.9	ND(<6.0)	ND(<5.7)	4.9
Ethylbenzene	91,000	3.8	12	ND(<1.2)	650	ND(<140)	170	ND(<1.1)	150	ND(<5.7)	2,900
Isopropylbenzene	8,000	ND(<1.1)	6.8	ND(<1.2)	ND(<140)	ND(<140)	ND(<140)	ND(<1.1)	98	ND(<5.7)	NA
p-Isopropyltoluene	5,600	ND(<1.1)	ND(<1.2)	ND(<1.2)	ND(<140)	ND(<140)	ND(<140)	ND(<1.1)	ND(<6.0)	ND(<5.7)	NA
Methylene Chloride	ND(<14,000) ¹	7.0 ¹	42 ¹	40 ¹	ND(<690) ¹	ND(<700) ¹	ND(<710) ¹	35 ¹	260 ¹	250 ¹	NA
Methyl-tert-butyl-ether	ND(<2,700)	9.4	ND(<1.2)	6.0	ND(<140)	ND(<140)	ND(<140)	38	ND(<6.0)	7.2	NA
Naphthalene	14,000	ND(<1.1)	1.2	ND(<1.2)	150	ND(<140)	190	ND(<1.1)	280	18	NA
n-Propylbenzene	16,000	ND(<1.1)	ND(<1.2)	ND(<1.2)	190	ND(<140)	210	ND(<1.1)	ND(<6.0)	ND(<5.7)	NA
Toluene	250,000	18	ND(<1.2)	1.5	ND(<140)	ND(<140)	ND(<140)	ND(<1.1)	ND(<6.0)	ND(<5.7)	1,500
1,1,1-Trichloroethane	ND(<2,700)	ND(<1.1)	1.3	ND(<1.2)	ND(<140)	ND(<140)	ND(<140)	ND(<1.1)	ND(<6.0)	ND(<5.7)	NA
1,2,4-Trimethylbenzene	130,000	1.7	30	ND(<1.2)	860	ND(<140)	460	ND(<1.1)	500	ND(<5.7)	NA
1,3,5-Trimethylbenzene	41,000	ND(<1.1)	22	ND(<1.2)	480	ND(<140)	410	ND(<1.1)	210	ND(<5.7)	NA
o-Xylene	97,000	2.6	2.2	ND(<1.2)	150	ND(<140)	ND(<140)	ND(<1.1)	72	ND(<5.7)	4,100 ²
m/p-Xylene	260,000	9.2	29	ND(<1.2)	290	ND(<140)	220	ND(<1.1)	250	ND(<5.7)	4,100 ²
DRO (mg/kg)	620	ND(<4.3)	ND(<4.5)	ND(<4.7)	6.5	ND(<4.5)	46	ND(<4.4)	8.4	9.4	100
GRO (mg/kg)	2,200	ND(<2.8)	ND(<2.9)	ND(<3.0)	15	ND(2.9)	150	ND(<2.8)	4.4	ND(<2.9)	100
LEAD (mg/kg)	6.2	3.9	4.7	13	4.4	5.0	5.0	4.5	29	4.4	50

mg/kg = Parts per million

µg/kg = Parts per billion

* Denotes any incidental odor - samples not specifically screened for odor

ND = Not detected above detection limit (detection limit given in parentheses)

-- = Sample not tested for indicated parameter

¹ = Methylene chloride is present in lab blank. All sample concentrations of methylene chloride should be viewed as suspect.

² = RCL is for total xylenes

NA = Not applicable

PLYM0503.DNR

Table 1 (cont.)
 Summary of Soils Analyses, Soil Boring Samples
 Plymouth Oil, Incorporated
 1611 Eastern Avenue
 Plymouth, Wisconsin

Sample Number	PO-SB6-03	PO-SB6-05	PO-SB7-01	PO-SB7-03	PO-SB8-02	PO-SB8-06	PO-SB9-04	PO-SB9-06	PO-SB10-03	PO-SB10-06	PO-TB092294	PO-TB022895	Residual Contaminant Levels (RCL)
Date	9/22/94	9/22/94	2/28/95	2/28/95	2/28/95	2/28/95	2/28/95	2/28/95	3/01/95	3/01/95	9/22/94	2/28/95	
Depth (feet)	4-6	8-10	2.5-4.5	7.5-9.5	5.0-7.0	15.0-17.0	10.0-12.0	15.0-17.0	7.5-9.5	15.0-17.0	--	--	
OVM (i.u.)	90	27	4.9	118	54	8.0	0.0	0.0	0.0	0.0	--	--	
Soil Type	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	Clay	--	--	
VOCs DETECTED (µg/kg)													
Benzene	ND(<560)	ND(<5.9)	2.2	4.4	48	ND(<1.1)	ND(<1.2)	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	5.5
n-Butylbenzene	1,900	21	1.5	3.9	ND(<4.8)	ND(<1.1)	ND(<1.2)	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
sec-Butylbenzene	1,600	34	ND(<1.1)	1.2	17	ND(<1.1)	40	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
1,2-Dichloroethane	ND(<560)	ND(<5.9)	ND(<1.1)	ND(<1.2)	18	ND(<1.1)	ND(<1.2)	1.7	ND(<1.1)	ND(<1.2)	--	--	4.9
Ethylbenzene	1,100	20	ND(<1.1)	ND(<1.2)	310	ND(<1.1)	6.7	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	2,900
Isopropylbenzene	690	18	ND(<1.1)	ND(<1.2)	41	ND(<1.1)	39	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
p-Isopropyltoluene	3,000	ND(<5.9)	ND(<1.1)	ND(<1.2)	ND(<4.8)	ND(<1.1)	ND(<1.2)	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
Methylene Chloride	ND(<2,800) ¹	180 ¹	2.9 ¹	2.5 ¹	ND(<4.8)	ND(<1.1)	ND(<1.2)	3.3 ¹	36 ¹	50 ¹	--	--	NA
Methyl-tert-butyl-ether	ND(<560)	520	ND(<1.1)	ND(<1.2)	26	ND(<1.1)	19	5.6	ND(<1.1)	ND(<1.2)	--	--	NA
Naphthalene	6,100	33	ND(<1.1)	ND(<1.2)	110	ND(<1.1)	100	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
n-Propylbenzene	810	ND(<5.9)	ND(<1.1)	ND(<1.2)	130	ND(<1.1)	35	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
Toluene	ND(<560)	ND(<5.9)	ND(<1.1)	ND(<1.2)	180	ND(<1.1)	ND(<1.2)	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	1,500
1,1,1-Trichloroethane	ND(<560)	ND(<5.9)	ND(<1.1)	ND(<1.2)	ND(<4.8)	ND(<1.1)	ND(<1.2)	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
1,2,4-Trimethylbenzene	6,000	53	3.6	7.1	950	ND(<1.1)	2.7	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
1,3,5-Trimethylbenzene	1,800	20	1.7	3.6	330	ND(<1.1)	1.4	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	NA
o-Xylene	ND(<560)	ND(<5.9)	ND(<1.1)	3.4	430	ND(<1.1)	ND(<1.2)	ND(<1.1)	ND(<1.1)	ND(<1.2)	--	--	4,100 ²
m/p-Xylene	2,700	24	2.3	1.7	1,000	ND(<1.1)	ND(<1.2)	1.3	ND(<1.1)	ND(<1.2)	--	--	4,100 ²
DRO (mg/kg)	3,000	290	ND(<4.0)	ND(<4.0)	ND(<3.8)	ND(<3.9)	ND(<3.9)	ND(<4.3)	ND(<3.9)	ND(<4.0)	--	--	100
GRO (mg/kg)	730	7.7	7.8	ND(<2.9)	11	ND(<2.8)	ND(<2.9)	ND(<2.9)	ND(<2.9)	ND(<2.9)	ND(<2,500 µg/l)	ND(<2,500 µg/l)	100
LEAD (mg/kg)	4.8	5.5	5.1	ND(<3.2)	5.3	11	5.6	4.6	4.9	4.4	--	--	50

mg/kg = Parts per million

µg/kg = Parts per billion

* Denotes any incidental odor - samples not specifically screened for odor

ND = Not detected above detection limit (detection limit given in parentheses)

-- = Sample not tested for indicated parameter

¹ = Methylene chloride is present in lab blank. All sample concentrations of methylene chloride should be viewed as suspect.

²RCL is for total xylenes

NA = Not applicable

PLYM0503.DNR

Table 3
Groundwater PVOC Results
Plymouth Oil, Inc.
1611 Eastern Avenue
Plymouth, Wisconsin

Monitoring Well	Date	Benzene	Ethylbenzene	MTBE	Napthalene	Toluene	Total Trimethylbenzene	Total Xylenes
MW01 Pre - Remediation	03/30/95	190	40	ND(<10)	53	ND(<10)	142	18
	04/18/96	160	120	ND(<1.0)	68	ND(<10)	253	22
	11/26/96	560	150	51	62	ND(<5.0)	171	10
	05/06/97	380	140	ND(<2.5)	82	ND(<1.5)	232	18
MW01 Post Remediation	07/14/99	180	150	ND(<0.80)	54	1.6	190	5.2
	10/12/99	120	170	ND(<7.4)	55	ND(<1.0)	166	7
	02/03/2000	300	190	74	84	2.7	123	15
	04/27/2000	73.6	78	9.68	30.4	0.804	69.63	5.1
MW02 Pre- Remediation	03/30/95	ND(<1.0)	ND(<1.0)	35	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
	04/18/96	ND(<0.6)	ND(<1.0)	50	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
	11/26/96	ND(<0.6)	ND(<1.0)	100	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
	05/06/97	110	2.7	78	NA	10	2.8	10.6
MW02 Post Remediation	07/14/99	3.2	0.46	48	NA	ND(<0.20)	ND(<0.29)	0.3
	10/12/99	ND(<1.4)	ND(<0.22)	130	NA	0.22	ND(<0.29)	ND(<0.23)
	02/03/2000	ND(<0.50)	ND(<0.50)	220	NA	ND(<0.50)	ND(<1.0)	ND(<0.5)
	04/27/2000	ND(<0.50)	ND(<0.50)	117	NA	ND(<0.50)	ND(<1.0)	ND(<0.50)
MW03 Pre- Remediation	03/30/95	12	12	210	70	ND(<5.0)	26.2	ND(<5.0)
	04/18/96	26	19	130	56	ND(<1.0)	16.3	2.4
	11/26/96	23	25	130	180	ND(<1.0)	40	3.8
	05/06/97	45	18	93	76	ND(<0.4)	13.5	2.6
MW03 Post Remediation	07/14/99	18	2.6	61	36	0.24	2.7	0.56
	10/12/99	11	2.7	46	27	0.3	4.9	1
	02/03/2000	12	4.0	81	76	0.54	16.4	2.4
	04/27/2000	31.8	23.8	51.4	54.7	ND(<5.0)	17.1	5.95
MW04 Pre- Remediation	03/30/95	ND(<1.0)	ND(<1.0)	10	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
	04/18/96	ND(<0.6)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<1.0)
	11/26/96	ND(<0.6)	ND(<1.0)	ND(<1.0)	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)
	05/06/97	ND(<0.4)	ND(<0.2)	ND(<0.5)	NA	ND(<0.3)	ND(<0.3)	ND(<0.5)
MW04 Post Remediation	07/14/99	ND(<0.13)	ND(<0.22)	ND(<0.16)	NA	ND(<0.20)	0.44	0.27
	10/12/99	ND(<0.13)	ND(<0.22)	ND(<0.16)	NA	0.42	ND(<0.22)	0.36
	02/03/2000	ND(<0.50)	ND(<0.50)	0.58	NA	ND(<0.50)	ND(<1.0)	ND(<0.5)
	04/27/2000	ND(<0.50)	ND(<0.50)	ND(<0.20)	NA	ND(<0.50)	ND(<1.0)	0.642
MW05 Pre- Remediation	03/30/95	260	470	ND(<5.0)	27	110	221	1190
	04/18/96	450	1000	ND(<10)	66	1500	128	3200
	11/26/96	210	350	4.2	26	37	153	710
	05/06/97	480	870	ND(<4.0)	87	1900	468	2980
MW05 Post Remediation	07/14/99	41	260	2.2	20	1.4	96	200
	10/12/99	16	50	ND(<1.6)	ND(<5.5)	4	6.8	31
	02/03/2000	85	480	6.7	45	20	330	860
	04/27/2000	51.5	309	2.13	20.7	41.6	123.9	315

MTBE: methyl tert butyl ether
ND: Not detected
NA: Not Analyzed

Table 3 - continued
Groundwater PVOC Results
Plymouth Oil, Inc.
1611 Eastern Avenue
Plymouth, Wisconsin

Monitoring Well	Date	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Total Trimethylbenzene	Total Xylenes
MW06 Pre-Remediation	03/30/95	not installed	not installed					
	04/18/96	not installed	not installed					
	11/26/96	4.4	ND(<1.0)	22	1.2	ND(<1.0)	8.9	3.9
	05/06/97	68	57	37	120	0.5	63	36.1
MW06 Post Remediation	07/14/99	45	20	48	19	0.35	15	3.8
	10/12/99	30	11	43	8.2	0.39	7.2	2
	02/03/2000	39	26	60	29	ND(<0.50)	17.8	4.9
	04/27/2000	41.1	29	49.7	8.83	ND(<0.50)	12.5	9.16
MW07 Pre-Remediation	03/30/95	not installed	not installed					
	04/18/96	not installed	not installed					
	11/26/96	not installed	not installed					
	05/06/97	ND(<0.4)	0.4	ND(<0.5)	ND(<0.7)	ND(<0.3)	ND(<0.3)	0.3
MW07 Post Remediation	07/14/99	ND(<0.13)	ND(<0.22)	ND(<0.16)	NA	0.35	ND(<0.29)	0.28
	10/12/99	ND(<0.13)	ND(<0.22)	ND(<0.16)	NA	0.44	0.27	0.54
	02/03/2000	ND(<0.50)	ND(<0.50)	ND(<0.20)	NA	ND(<0.50)	ND(<1.0)	ND(<0.50)
	04/27/2000	ND(<0.50)	0.536	ND(<0.20)	NA	ND(<0.50)	ND(<1.0)	0.76
MW08 Pre-Remediation	03/30/95	not installed	not installed					
	04/18/96	not installed	not installed					
	11/26/96	not installed	not installed					
	05/06/97	ND(<0.4)	1.2	1.6	ND(<0.7)	0.3	2.8	3.5
MW08 Post Remediation	07/14/99	ND(<0.13)	ND(<0.22)	4	NA	0.25	0.26	0.35
	10/12/99	ND(<0.13)	ND(<0.22)	4.9	NA	0.46	0.28	0.61
	02/03/2000	ND(<0.50)	ND(<0.50)	5.2	NA	ND(<0.50)	1.5	0.82
	04/27/2000	ND(<0.50)	ND(<0.50)	8.16	NA	ND(<0.50)	ND(<1.0)	0.577
MW09 Pre-Remediation	03/30/95	not installed	not installed					
	04/18/96	not installed	not installed					
	11/26/96	not installed	not installed					
	05/06/97	ND(<0.4)	0.6	0.8	ND(<0.7)	ND(<0.3)	2.3	0.5
MW09 Post Remediation	07/14/99	0.24	ND(<0.22)	ND(<0.16)	ND(<1.1)	0.21	0.36	0.24
	10/12/99	0.15	ND(<0.22)	ND(<0.19)	ND(<1.1)	0.26	0.27	0.45
	02/03/2000	ND(<0.50)	ND(<0.50)	1.1	ND(<2.0)	0.59	ND(<1.0)	ND(<0.50)
	04/27/2000	0.826	2.99	1.36	ND(<2.0)	0.928	2.86	4.03
NR 140 ES		5.0	700	60	40	343	480	620
NR 140 PAL		0.5	140	12	8	68.6	96	124

MTBE: methyl tert butyl ether

ND: Not detected

NA: Not Analyzed

NR 140 ES = Wis. Adm. Code NR140 Groundwater Enforcement Standard

NR 140 PAL = Wis. Adm. Code NR140 Groundwater Preventive Action Level

Table 4
Groundwater Elevations
Plymouth Oil, Inc.
1611 Eastern Avenue
Plymouth, WI

Monitoring Well	Ground Elevation	Top of Casing Elevation (ft)	July 14, 1999		October 12, 1999		February 3, 2000		April 27, 2000		
			Static Water Level (ft)	Groundwater Elevation (ft)	Static Water Level (ft)	Groundwater Elevation (ft)	Static Water Level (ft)	Groundwater Elevation (ft)	Static Water Level (ft)	Groundwater Elevation (ft)	
MW1	883.07	882.44	6.12	876.32	6.18	876.26	8.05	874.39	5.09	877.35	8-23
MW2	883.12	882.84	5.29	877.55	5.22	877.62	7.57	875.27	5.89	876.95	8-23
MW3	881.57	881.35	5.22	876.13	3.46	877.89	8.45	872.90	5.35	876.00	7-22
MW4	882.19	881.95	12.03	869.92	11.47	870.48	11.36	870.59	12.16	869.79	8-23
MW5	883.29	883.13	6.37	876.76	6.77	876.36	8.74	874.39	6.75	876.38	14-7-24
MW6	879.61	879.36	3.76	875.6	4.70	874.66	7.05	872.31	4.1	875.26	5-15
MW7	881.96	881.63	5.25	876.38	5.65	875.98	7.59	874.04	4.83	876.80	4-14
MW8	878.67	878.19	3.80	874.39	3.35	874.84	6.33	871.86	3.33	874.86	3-13
MW9	878.70	878.30	4.75	873.55	7.87	870.43	8.20	870.10	6.85	871.45	3-13

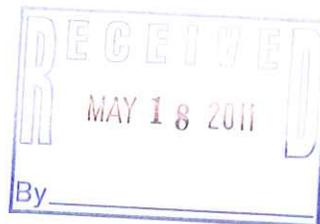
Screen

All elevations are reference to mean sea level.

Benchmark located on fire hydrant at northwest corner of the intersection of Eastern Avenue and Highland Avenue.

May 16, 2011

Ms. Victoria Stovall
Environmental Program Assistant
Wisconsin Department of Natural Resources
Southeast Region Headquarters
2300 N. Martin Luther King Drive
Milwaukee, Wisconsin 53212



RE: Contamination Encountered in Highland Avenue, Plymouth, WI

Dear Ms. Stovall,

This letter report is to inform you of the contamination encountered during water main replacement activities in the City of Plymouth, WI.

Water main replacement activities occurred between Valley Road and Eastern Avenue within the roadway right-of-way. Sites listed on the BRRTS Map include:

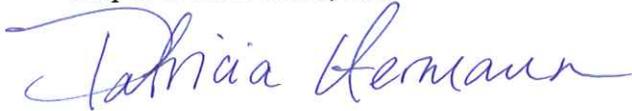
1. Plymouth Oil Company (South Side of Eastern Avenue, West Side of Highland Avenue)
1611 Eastern Avenue
Plymouth, WI 53073
Commerce #: 53073-2089-11
BRRTS #: 03-60-003726
FID #: 460072690

Contaminated soils were encountered at a depth of 6 to 8 feet during water main replacement to the east of 1611 Eastern Avenue. The site is currently for sale. It was formerly Plymouth Oil Company. A bentonite dam was placed (33+30) downgradient (south) of the encountered contamination and ductile iron pipe was utilized within the contaminated area. Approximately two hundred sixty feet of ductile iron piping was placed and another bentonite dam was placed at station 35+80. Photoionization Detector (PID) readings varied from 221 to 1,014 parts per million by volume (ppmv) in the area of contamination. Waste Characterization Samples (WCS-1 and WCS-2) were collected within the contaminated area and analyzed for Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and Petroleum Volatile Range Organics (PVOCs). Results are shown in Table 1.

A total of 239.24 tons of contaminated soils were removed from the area and disposed of at Veolia ES Hickory Meadows Landfill in Hilbert, Wisconsin. As-Built drawings Sheet 8 and 9 depict the location of bentonite dams and the area of encountered contamination.

Please let me know if you have any questions.

Sincerely,
Kapur & Associates, Inc.



Patricia Hermann
Environmental Scientist

Attachments



Table 1: Waste Characterization Results
 Highland Avenue Water Main Replacement
 Plymouth, Wisconsin

analyte	WCS-1		WCS-2	
	result	units	result	units
Diesel Range Organics	996	mg/kg	1,660	mg/kg
Gasoline Range Organics	95.4	mg/kg	244	mg/kg
PVOCs				
Benzene	<50.0	ug/kg	<200	ug/kg
Ethylbenzene	140	ug/kg	748	ug/kg
Methyl tert-Butyl Ether	<50.0	ug/kg	<200	ug/kg
Toluene	<50.0	ug/kg	<200	ug/kg
1,2,4-Trimethylbenzene	620	ug/kg	3,180	ug/kg
1,3,5-Trimethylbenzene	<50.0	ug/kg	<200	ug/kg
m&p-Xylene	263 J	ug/kg	658 J	ug/kg
o-Xylenes	95.5 J	ug/kg	<200	ug/kg

AS-BUILT

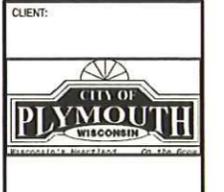
REVISED TO CONFORM TO
CONSTRUCTION RECORDS
JULY 2010
BY: J. SCHWARTZ, P.E.
KAPUR & ASSOCIATES, INC.



KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
7711 N. PORT WASHINGTON ROAD
MILWAUKEE, WISCONSIN 53217
Phone: 414.351.6668 Fax: 414.351.4117
www.kapurengineers.com

PROJECT:
**2010 WATER MAIN,
SANITARY SEWER
AND ROAD WORK**

LOCATION:
**CITY OF
PLYMOUTH,
WISCONSIN**



RELEASE:
AS-BUILT

REVISIONS:

#	DATE	DESCRIPTION
1	02/10/10	PRELIMINARY
2	03/11/10	BD SET
3	03/30/10	CONSTRUCTION SET
4	03/01/11	AS-BUILT



SCALE: 1" = 20' H.
1" = 4' V.

IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

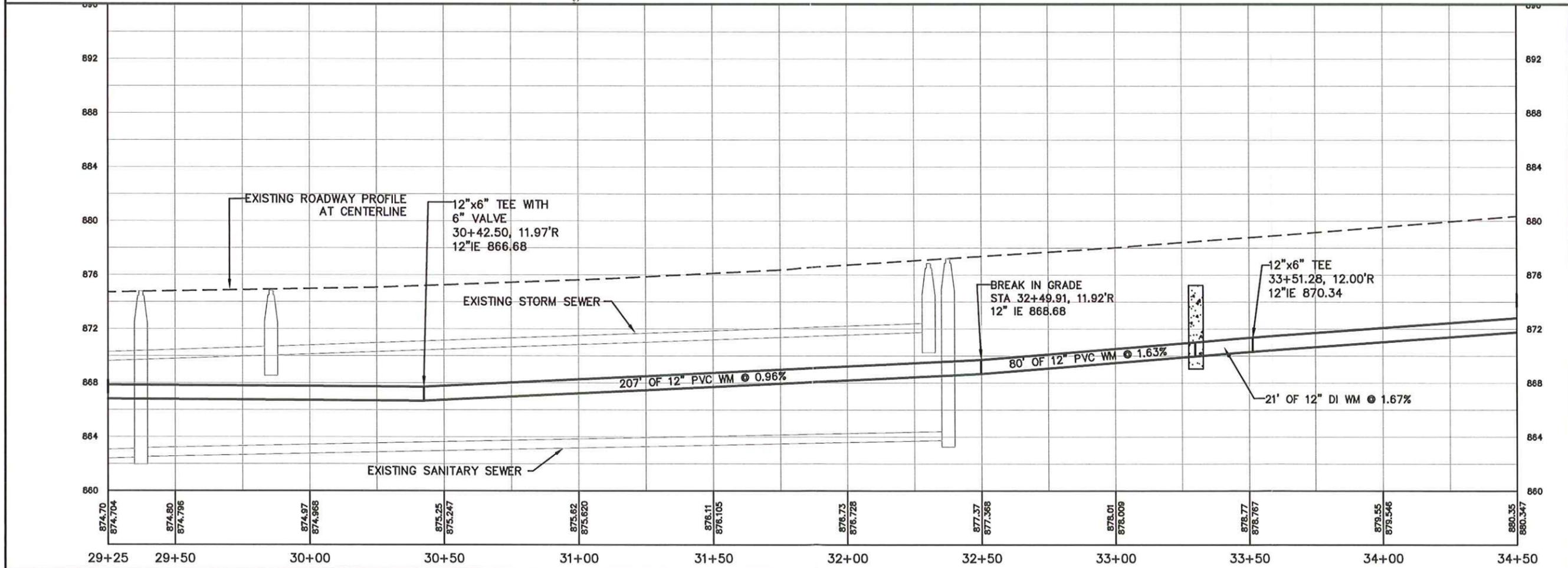
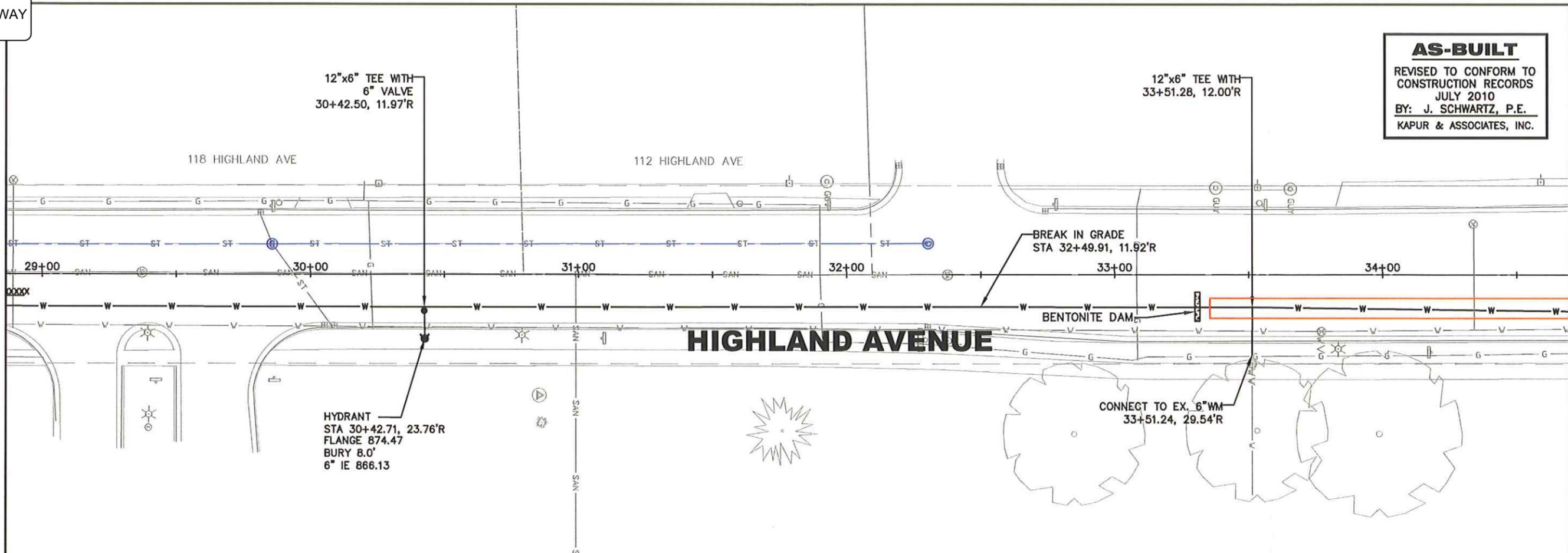
SEAL:

we listen. we innovate.
we turn your vision into reality.

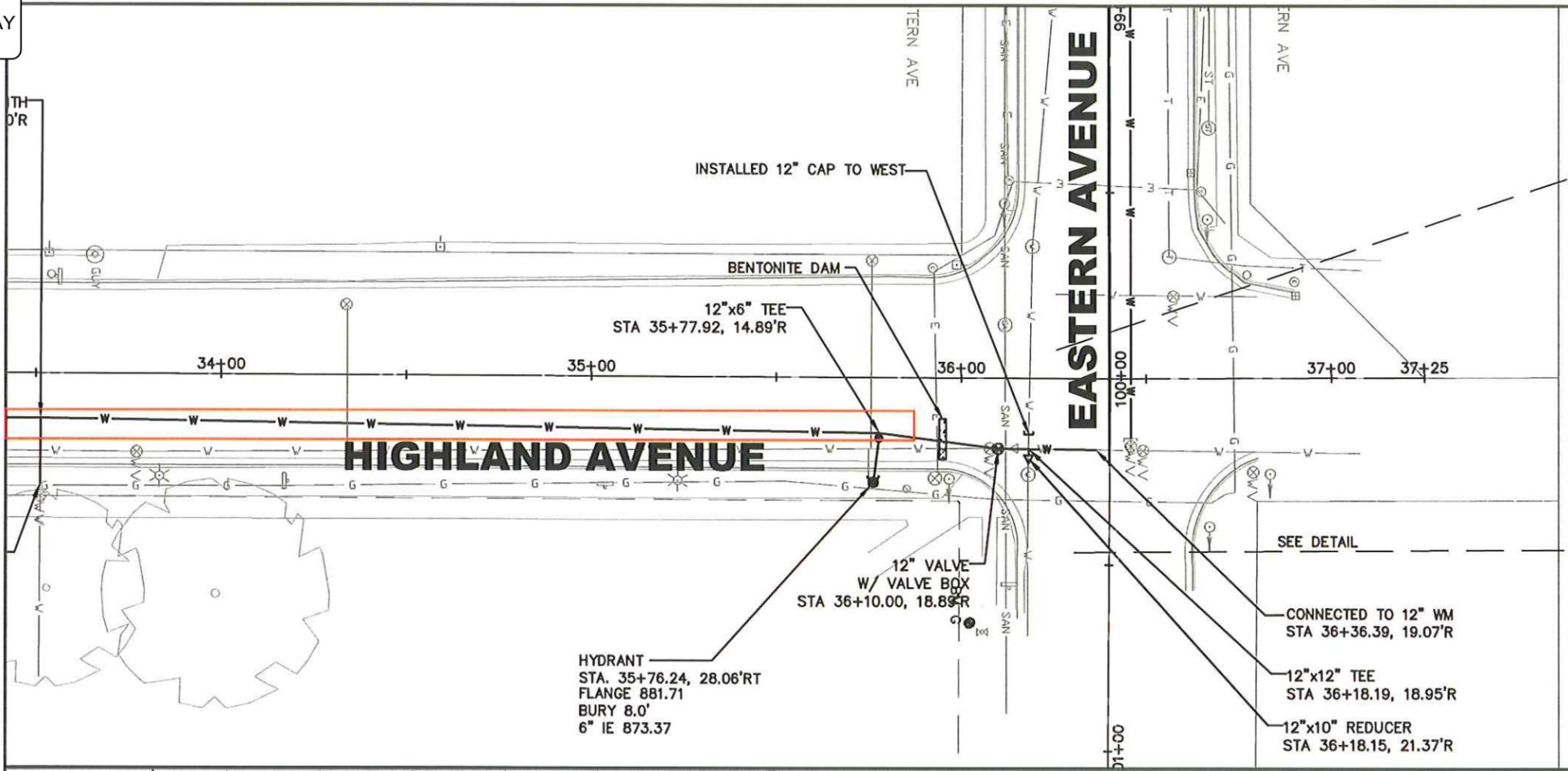
SHEET:
**HIGHLAND AVENUE
WATER MAIN**

DESIGNED BY: JLS
DRAWN BY: GB
CHECKED BY: ARG
APPROVED BY: DPA
PROJECT NUMBER: 08.0205.01

SHEET NUMBER:
8



RIGHT-OF-WAY



AS-BUILT
 REVISED TO CONFORM TO
 CONSTRUCTION RECORDS
 JULY 2010
 BY: J. SCHWARTZ, P.E.
 KAPUR & ASSOCIATES, INC.

KAPUR & ASSOCIATES, INC.
 CONSULTING ENGINEERS
 7711 N. FORT WASHINGTON ROAD
 MILWAUKEE, WISCONSIN 53217
 Phone: 414.351.6555 Fax: 414.351.4117
 www.kapurengineers.com

PROJECT:
 2010 WATER MAIN,
 SANITARY SEWER
 AND ROAD WORK

LOCATION:
 CITY OF
 PLYMOUTH,
 WISCONSIN



CLIENT:
 CITY OF PLYMOUTH, WISCONSIN

RELEASE:
 AS-BUILT

REVISIONS:

#	DATE	DESCRIPTION
1	02/10/10	PRELIMINARY
2	03/11/10	BID SET
3	09/30/10	CONSTRUCTION SET
4	03/01/11	AS-BUILT



SCALE: 1" = 20' H.
 1" = 4' V.

IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

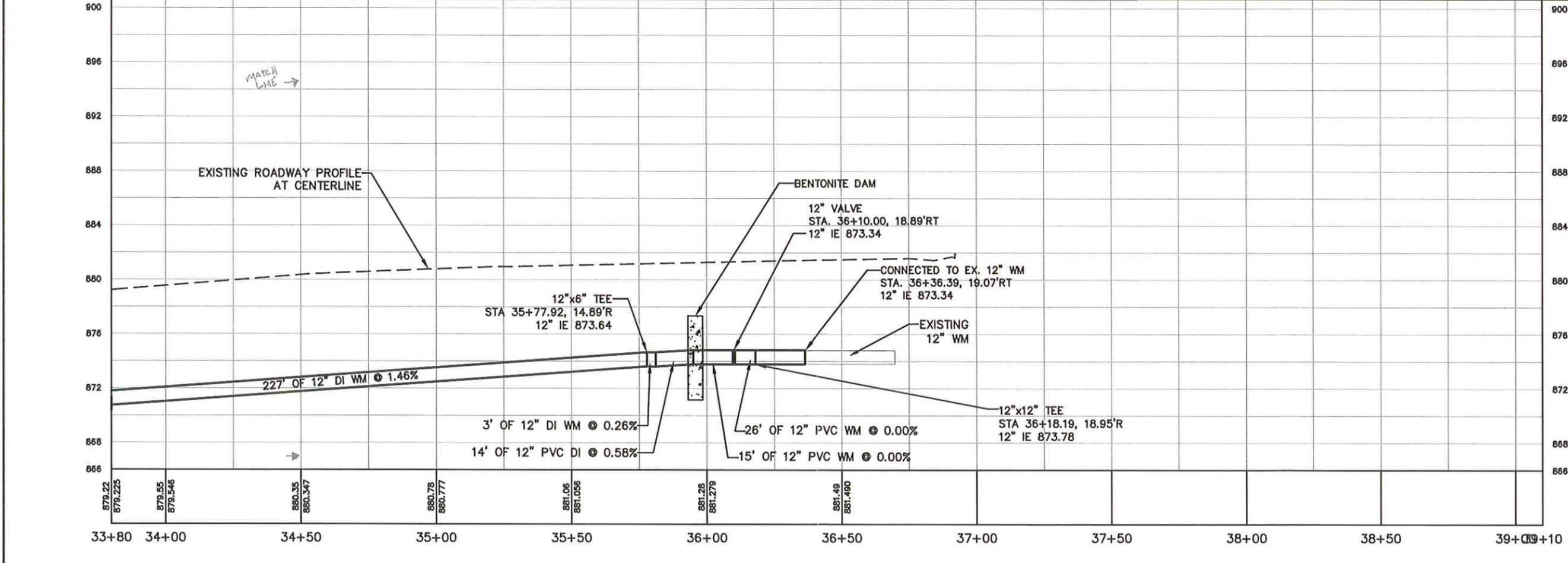
SEAL:

we listen. we innovate.
 we turn your vision into reality.

SHEET:
 HIGHLAND AVENUE
 WATER MAIN

DESIGNED BY: JLS
 DRAWN BY: GB
 CHECKED BY: ARG
 APPROVED BY: DPA
 PROJECT NUMBER: 08.0205.01

SHEET NUMBER:
9



July 07, 2010

Kapur ALL
KAPUR & ASSOCIATES, INC.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: PLYMOUTH WM-HIGHLAND
Pace Project No.: 4033932

Dear Kapur ALL:

Enclosed are the analytical results for sample(s) received by the laboratory on June 30, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Alee Her

alee.her@pacelabs.com
Project Manager

Enclosures

cc: Trish Hermann, KAPUR & ASSOCIATES, INC.

REPORT OF LABORATORY ANALYSIS

Page 1 of 10

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CERTIFICATIONS

Project: PLYMOUTH WM-HIGHLAND
Pace Project No.: 4033932

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

Page 2 of 10

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SAMPLE SUMMARYProject: PLYMOUTH WM-HIGHLAND
Pace Project No.: 4033932

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4033932001	WCS-1	Solid	06/28/10 00:00	06/30/10 15:30
4033932002	WCS-2	Solid	06/28/10 12:00	06/30/10 15:30
4033932003	TRIP BLANK	Solid	06/28/10 00:00	06/30/10 15:30

REPORT OF LABORATORY ANALYSIS

Page 3 of 10

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SAMPLE ANALYTE COUNT

Project: PLYMOUTH WM-HIGHLAND
 Pace Project No.: 4033932

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4033932001	WCS-1	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	MRN	1	PASI-G
4033932002	WCS-2	WI MOD DRO	DAL	1	PASI-G
		WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	MRN	1	PASI-G
4033932003	TRIP BLANK	WI MOD GRO	PMS	9	PASI-G

REPORT OF LABORATORY ANALYSIS

Page 4 of 10

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ANALYTICAL RESULTS

Project: PLYMOUTH WM-HIGHLAND

Pace Project No.: 4033932

Sample: WCS-1 Lab ID: 4033932001 Collected: 06/28/10 00:00 Received: 06/30/10 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	996 mg/kg		39.9	19.8	20	07/01/10 12:27	07/06/10 10:06		L2
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<50.0 ug/kg		120	50.0	2	07/01/10 07:18	07/01/10 16:15	71-43-2	W
Ethylbenzene	140 ug/kg		135	56.2	2	07/01/10 07:18	07/01/10 16:15	100-41-4	
Gasoline Range Organics	95.4 mg/kg		5.6	5.6	2	07/01/10 07:18	07/01/10 16:15		
Methyl-tert-butyl ether	<50.0 ug/kg		120	50.0	2	07/01/10 07:18	07/01/10 16:15	1634-04-4	W
Toluene	<50.0 ug/kg		120	50.0	2	07/01/10 07:18	07/01/10 16:15	108-88-3	W
1,2,4-Trimethylbenzene	620 ug/kg		135	56.2	2	07/01/10 07:18	07/01/10 16:15	95-63-6	
1,3,5-Trimethylbenzene	<50.0 ug/kg		120	50.0	2	07/01/10 07:18	07/01/10 16:15	108-67-8	W
m&p-Xylene	263J ug/kg		270	112	2	07/01/10 07:18	07/01/10 16:15	179601-23-1	
o-Xylene	95.5J ug/kg		135	56.2	2	07/01/10 07:18	07/01/10 16:15	95-47-6	
a,a,a-Trifluorotoluene (S)	105 %		80-120		2	07/01/10 07:18	07/01/10 16:15	98-08-8	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	11.1 %		0.10	0.10	1		07/07/10 08:09		

Sample: WCS-2 Lab ID: 4033932002 Collected: 06/28/10 12:00 Received: 06/30/10 15:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS		Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
Diesel Range Organics	1660 mg/kg		102	50.8	50	07/01/10 12:27	07/06/10 10:14		L2
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<200 ug/kg		480	200	8	07/01/10 07:18	07/01/10 15:24	71-43-2	W
Ethylbenzene	748 ug/kg		565	235	8	07/01/10 07:18	07/01/10 15:24	100-41-4	
Gasoline Range Organics	244 mg/kg		23.5	23.5	8	07/01/10 07:18	07/01/10 15:24		
Methyl-tert-butyl ether	<200 ug/kg		480	200	8	07/01/10 07:18	07/01/10 15:24	1634-04-4	W
Toluene	<200 ug/kg		480	200	8	07/01/10 07:18	07/01/10 15:24	108-88-3	W
1,2,4-Trimethylbenzene	3180 ug/kg		565	235	8	07/01/10 07:18	07/01/10 15:24	95-63-6	
1,3,5-Trimethylbenzene	<200 ug/kg		480	200	8	07/01/10 07:18	07/01/10 15:24	108-67-8	W
m&p-Xylene	658J ug/kg		1130	471	8	07/01/10 07:18	07/01/10 15:24	179601-23-1	
o-Xylene	<200 ug/kg		480	200	8	07/01/10 07:18	07/01/10 15:24	95-47-6	W
a,a,a-Trifluorotoluene (S)	105 %		80-120		8	07/01/10 07:18	07/01/10 15:24	98-08-8	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	15.0 %		0.10	0.10	1		07/07/10 08:09		

ANALYTICAL RESULTS

 Project: PLYMOUTH WM-HIGHLAND
 Pace Project No.: 4033932

Sample: TRIP BLANK Lab ID: 4033932003 Collected: 06/28/10 00:00 Received: 06/30/10 15:30 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Benzene	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	07/01/10 07:18	07/01/10 18:23	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	07/01/10 07:18	07/01/10 18:23	95-47-6	W
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	07/01/10 07:18	07/01/10 18:23	98-08-8	

QUALITY CONTROL DATA

Project: PLYMOUTH WM-HIGHLAND
 Pace Project No.: 4033932

QC Batch: OEXT7652 Analysis Method: WI MOD DRO
 QC Batch Method: WI MOD DRO Analysis Description: WIDRO GCS
 Associated Lab Samples: 4033932001, 4033932002

METHOD BLANK: 322019 Matrix: Solid
 Associated Lab Samples: 4033932001, 4033932002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.99	2.0	07/02/10 10:26	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 322020								
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	20	12.1	14.3	61	71	70-120	17	20	L0

QUALITY CONTROL DATA

 Project: PLYMOUTH WM-HIGHLAND
 Pace Project No.: 4033932

 QC Batch: GCV/5259 Analysis Method: WI MOD GRO
 QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
 Associated Lab Samples: 4033932001, 4033932002, 4033932003

 METHOD BLANK: 322206 Matrix: Solid
 Associated Lab Samples: 4033932001, 4033932002, 4033932003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	07/01/10 08:34	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	07/01/10 08:34	
Benzene	ug/kg	<25.0	60.0	07/01/10 08:34	
Ethylbenzene	ug/kg	<25.0	60.0	07/01/10 08:34	
Gasoline Range Organics	mg/kg	<2.5	2.5	07/01/10 08:34	
m&p-Xylene	ug/kg	<50.0	120	07/01/10 08:34	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	07/01/10 08:34	
o-Xylene	ug/kg	<25.0	60.0	07/01/10 08:34	
Toluene	ug/kg	<25.0	60.0	07/01/10 08:34	
a,a,a-Trifluorotoluene (S)	%	106	80-120	07/01/10 08:34	

LABORATORY CONTROL SAMPLE & LCSD: 322207

322208

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1100	1100	110	110	80-120	.3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1100	1090	110	109	80-120	.4	20	
Benzene	ug/kg	1000	1040	1030	104	103	80-120	.6	20	
Ethylbenzene	ug/kg	1000	1090	1080	109	108	80-120	.7	20	
Gasoline Range Organics	mg/kg	10	9.2	9.1	92	91	80-120	2	20	
m&p-Xylene	ug/kg	2000	2180	2170	109	108	80-120	.5	20	
Methyl-tert-butyl ether	ug/kg	1000	984	1010	98	101	80-120	3	20	
o-Xylene	ug/kg	1000	1070	1070	107	107	80-120	.5	20	
Toluene	ug/kg	1000	1070	1060	107	106	80-120	.6	20	
a,a,a-Trifluorotoluene (S)	%				106	106	80-120			

QUALITY CONTROL DATA

Project: PLYMOUTH WM-HIGHLAND
 Pace Project No.: 4033932

QC Batch: PMST/4204 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 4033932001, 4033932002

SAMPLE DUPLICATE: 323979

Parameter	Units	4033969012 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	24.4	25.3	4	10	

QUALIFIERS

Project: PLYMOUTH WM-HIGHLAND

Pace Project No.: 4033932

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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

(Please Print Clearly)

VMPEN



Company Name: Kapurs Associates
 Branch/Location: Milwaukee
 Project Contact: Trish Hermann
 Phone: 414-8351-6668
 Project Number:
 Project Name: Plymouth WSM-Highland
 Project State: WI
 Sampled By (Print): Patricia Hermann
 Sampled By (Sign): Patricia Hermann
 PO #:
 Regulatory Program:

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

CHAIN OF CUSTODY

Y/N	N	N	N						
Filtered? (YES/NO)									
Preservation (CODE)	A	F	F						
Analysis Required	DRO	GRO	PVOCs						

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	N	N	N					
		DATE	TIME										
001	WCS-1	06/28	AM	SOIL	X	X	X						
002	WCS-2	06/28	PM	SOIL	X	X	X						
003	TRIP BLANK							X					

Quote #:
 Mail To Contact: Trish Hermann
 Mail To Company: Kapurs Associates
 Mail To Address: 771 N. Port Washington Rd Milwaukee, WI 53217
 Invoice To Contact: SAA
 Invoice To Company: SAA
 Invoice To Address: SAA
 Invoice To Phone:

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	<u>1-4oz poly^A, 1-4oz cg^A, 1-2oz cg^A</u> <u>↓ ↓ ↓</u> <u>1-40ml^F</u>	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Relinquished By: <u>M. B...</u>	Date/Time: <u>6/29/10 12:20</u>	Received By: <u>D. M...</u>	Date/Time: <u>6/30/10 12:20</u>
Relinquished By: <u>D. M...</u>	Date/Time: <u>6/30/10 15:30</u>	Received By: <u>A. M...</u>	Date/Time: <u>6/30/10 15:30</u>
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 4033932
 Receipt Temp = ROI °C
 Sample Receipt pH OK / Adjusted NA
 Cooler Custody Seal Present / Not Present Intact / Not Intact

Sample Condition Upon Receipt

Pace Analytical

Client Name: Yapura Associates Project # 4033932

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: _____

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

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

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

Cooler Temperature ROT Biological Tissue is Frozen: yes no

Temp Blank Present: yes no no

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

Optional:
Proj. Due Date:
Proj. Name:

Person examining contents:
Date: 6-30-10
Initials: BF

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Date/Time: _____ Field Data Required? Y / N
Person Contacted: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/30/10

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

Detail Contract Activity Report

1/16/2010 to 5/16/2011

All Facilities

History and Waiting

Specific Contract: HML10-060

HML10-060

Ticket Date	Facility & Ticket Number	Customer	Truck	Material	Contract Rate	Billing Quantity	Minimum Quantity	Maximum Quantity	Material Total
04/28/2010	I B5	308674 000537 - PTS CONTRACTORS INC	88PT	33A@ C-Soil / Leaded Gas /	22.00	F	23.06	TN	
04/28/2010	I B5	308682 000537 - PTS CONTRACTORS INC	15EB	33A@ C-Soil / Leaded Gas /	22.00	F	18.79	TN	
04/29/2010	I B5	308731 000537 - PTS CONTRACTORS INC	10EB	33A@ C-Soil / Leaded Gas /	22.00	F	17.66	TN	
04/29/2010	I B5	308748 000537 - PTS CONTRACTORS INC	12EB	33A@ C-Soil / Leaded Gas /	22.00	F	19.04	TN	
04/29/2010	I B5	308770 000537 - PTS CONTRACTORS INC	10EB	33A@ C-Soil / Leaded Gas /	22.00	F	5.91	TN	
06/28/2010	I B5	317068 000537 - PTS CONTRACTORS INC	206SP	33A@ C-Soil / Leaded Gas /	22.00	F	23.36	TN	
06/28/2010	I B5	317077 000537 - PTS CONTRACTORS INC	205SP	33A@ C-Soil / Leaded Gas /	22.00	F	22.82	TN	
06/28/2010	I B5	317085 000537 - PTS CONTRACTORS INC	84PT	33A@ C-Soil / Leaded Gas /	22.00	F	24.15	TN	
06/28/2010	I B5	317094 000537 - PTS CONTRACTORS INC	206SP	33A@ C-Soil / Leaded Gas /	22.00	F	19.29	TN	
06/28/2010	I B5	317096 000537 - PTS CONTRACTORS INC	205SP	33A@ C-Soil / Leaded Gas /	22.00	F	23.97	TN	
06/28/2010	I B5	317102 000537 - PTS CONTRACTORS INC	333SP	33A@ C-Soil / Leaded Gas /	22.00	F	29.02	TN	
06/28/2010	I B5	317107 000537 - PTS CONTRACTORS INC	84PT	33A@ C-Soil / Leaded Gas /	22.00	F	25.88	TN	
06/28/2010	I B5	317115 000537 - PTS CONTRACTORS INC	205SP	33A@ C-Soil / Leaded Gas /	22.00	F	16.76	TN	
06/28/2010	I B5	317118 000537 - PTS CONTRACTORS INC	206SP	33A@ C-Soil / Leaded Gas /	22.00	F	28.94	TN	
06/29/2010	I B5	317181 000537 - PTS CONTRACTORS INC	84PT	33A@ C-Soil / Leaded Gas /	22.00	F	25.05	TN	

Tickets Reported: 15 Items Reported: 15

Material Summary	Weight		Volume		Count		Billing Quantity	Material Total	Tax Total	Total
	Inbound	Outbound	Inbound	Outbound	Inbound	Outbound				
33A@ C-Soil / Leaded Gas /	323.70		0.00	TN	0.00	0.00	0.00	0.00	323.70	TN