

## **GIS Registry Disclaimer**

This case was closed by the DNR prior to August 1, 2002, when DNR began adding approved cleanups with residual soil contamination into the GIS Registry. Certain documents that are currently required by ch. NR 726, Wis. Adm. Code may therefore not be included in this packet as they were unavailable at the time the original case was closed.

The information contained in this document was assembled by DNR from a previously closed case file, and added to the GIS Registry to provide the public with information on closed sites with residual soil and/or groundwater contamination remaining above applicable state standards.

**Source Property Information****BRRTS #:**

03-60-001777

ACTIVITY NAME:

MEYER AUTO &amp; TOWING

PROPERTY ADDRESS:

1304 Eastern Ave

MUNICIPALITY:

Plymouth

PARCEL ID #:

59271807960

CLOSURE DATE:

Mar 9, 2001

FID #:

460062130

DATCP #:

COMM #:

53073201704

**\*WTM COORDINATES:**

X: 683938

Y: 365818

*\* 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 #: 03-60-001777 PARCEL ID #: 59271807960  
ACTIVITY NAME: MEYER AUTO & TOWING WTM COORDINATES: X: 683938 Y: 365818

**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 #: 1**                      **Title: Site Location Map**
- 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 #:**                      **Title:**
- 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 #: 2**                      **Title: Site Sketch**

BRRTS #: 03-60-001777

ACTIVITY NAME: MEYER AUTO & TOWING

**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 #:**                      **Title:**

**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 #: F-4                      Title: Ground Water/Benzene Distribution Plan**

**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 #: F-5                      Title: Ground Water Contour Plan - Typical**

**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 #:**                      **Title:**

**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: Historic Ground Water Analytic Test 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 #: 3                      Title: Historic Ground Water Analytic Test Results**

**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).

BRRTS #: 03-60-001777

ACTIVITY NAME: MEYER AUTO & TOWING

## 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:



March 9, 2001

Mr. Harold Meyer  
Meyer Auto & Towing  
1304 Eastern Avenue  
Plymouth, WI 53073

RE: **COMMERCE # 53073-2017-04**  
Meyer Auto & Towing, 1304 Eastern Avenue, Plymouth, WI  
One 2,000-gallon Diesel Fuel and One 4,000-gallon and Two 6,000-gallon Unleaded  
Gasoline Underground Storage Tanks Removed in 1994

**Case Closed**

Dear Mr. Meyer:

The Department has received all the items required as conditions of closure for the referenced site. Therefore, this site is now listed as "closed" on the Commerce database.

Thank you for your efforts in the protection of Wisconsin's environment. If you have any questions, feel free to contact me 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  
PECFA Site Review Section

cc: Ms. Tammy Kuehlmann, Miller Engineers & Scientists  
Commerce electronic file

NOTICE OF CONTAMINATION TO  
PROPERTY

SHEBOYGAN COUNTY, WI  
RECORDED ON

02-01-2001 9:36 AM

DARLENE J. NAVIS  
REGISTER OF DEEDS

RECORDING FEE: 12.00  
TRANSFER FEE:

051515 6

Declaration of Restrictions

In Re: Darrow Meyer Auto & Towing, located at 1304 and 1324 Eastern Avenue, described as follows:

Lot Number Eight (8), Nine (9), Ten (10) and Eleven (11) in Block Two (2) Eastern Avenue Addition as per recorded plat, also commencing at the Southeast corner of Lot Eleven (11), Block Two (2), Eastern Avenue Addition, thence North Two Hundred (200) feet to a point, thence East One Hundred Forty (140) feet to a point, thence South Two Hundred (200) feet to a point, thence West One Hundred Forty (140) feet to the point of beginning. All in the Southeast Quarter of the Southeast Quarter, Section 22, Town 15 North, Range 21 East, City of Plymouth. (Recorded on Document No. 1492884 in Volume 1543 on Page 626 in the office of the Register of Deeds.)

Name and Return Address

Mooney & Siegert  
P.O. Box 297  
Plymouth WI 53073

STATE OF WISCONSIN )  
 ) ) ss  
COUNTY OF Sheboygan )

WHEREAS, Darrow Investments, LLC is the owner of the above-described property.

WHEREAS, petroleum soil contamination was discovered along the southern portion of the property during the construction of improvements, along Eastern Avenue in 1991. Benzene contaminated groundwater above NR 140 enforcement standards (ES) exists on this property at the S1 location, near the underground storage tanks and the S2 location, along Eastern Avenue approximately 140 feet east of the intersection of Bruns Avenue and Eastern Avenue. Methyl Tert-Butyl Ether (MTBE) contaminated groundwater above the NR 140 Enforcement Standards (ES) exists on this property at the MW2A location, along Eastern Avenue approximately 140 feet east of the intersection of North Bruns Avenue and Eastern Avenue, and the S3 location, along Eastern Avenue approximately 210 feet east of the intersection of North Bruns Avenue and Eastern Avenue. (Refer to Figure 4: *Ground Water/Benzene Distribution Plan*). Test results showed benzene concentrations of 42.5 ppb in the sump S1 and 89.9 ppb in the sump S2. Test results showed MTBE concentrations of 98 ppb in monitoring well MW2A and 68.8 ppb in the sump S3. Residual petroleum soil contamination above NR720 residual contaminant levels of the Wisconsin Administrative Code remains on site. Moderate levels as high as 183 ppm Benzene, Ethylbenzene, Toluene, and Xylene (BETX) remains on this site in the area of the southwest corner of the Firestone building, and low levels as low as 1.75 ppm along Eastern Avenue approximately 120 feet east of the intersection of North Bruns Avenue and Eastern Avenue.

807960 and 820790

Parcel Identification Numbers  
(PIN)

NOW THEREFORE, the owner hereby declares that all of the property described above is held and shall be held, conveyed or encumbered, leased, rented, used, occupied and improved subject to the following limitation and restrictions:

Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources Bureau of Drinking Water and Groundwater, or its successor agency, to determine what specific requirements are applicable, prior to constructing or reconstructing a well on this property. No well may be constructed or reconstructed on this property unless applicable requirements are met.

Residual petroleum contaminated soil with moderate levels as high as 183 ppm Benzene, Ethylbenzene, Toluene, and Xylene (BETX) remains on this site in the area of the southwest corner of the Firestone building, and low levels as low as 1.75 ppm along Eastern Avenue approximately 120 feet east of the intersection of North Bruns Avenue and Eastern Avenue. The Department of Commerce has determined that the site does not pose a significant threat to the environment and human health and that no further investigation or remedial action is necessary. However, if this contaminated soil is excavated in the future, it may be considered a special 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 Declaration of Restrictions, this 30 day of January, 2001.  
DARROW INVESTMENTS, LLC

By: Signature: James Darrow, Member  
Printed Name: JAMES DARROW, Member

Subscribed and sworn to before me  
this 30 day of January, 2001. Larry R. Siegent  
Larry R. Siegent

Notary Public, State of Wisconsin  
My commission Permanent

This document was drafted by the Wisconsin Department of Commerce.





## Search

Parcel ID

Parcel Address

## Tools

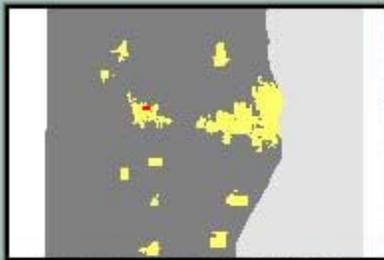
Identify

Zoom In

Zoom Out

Full Extent

Pan



### Tax Parcels

Rec	Parcel ID	Click	Site Address	Land Val	Improv Val	Property Val
1	59271807960	<a href="#">Tax Parcel Data</a>	1312 EASTERN AVE	147,800.00	914,200.00	1,062,000.00

## Full Tax Parcel Description

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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](#)**

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**Parcel Number:** 59271807960

**Situs Address:** 1312 EASTERN AVE

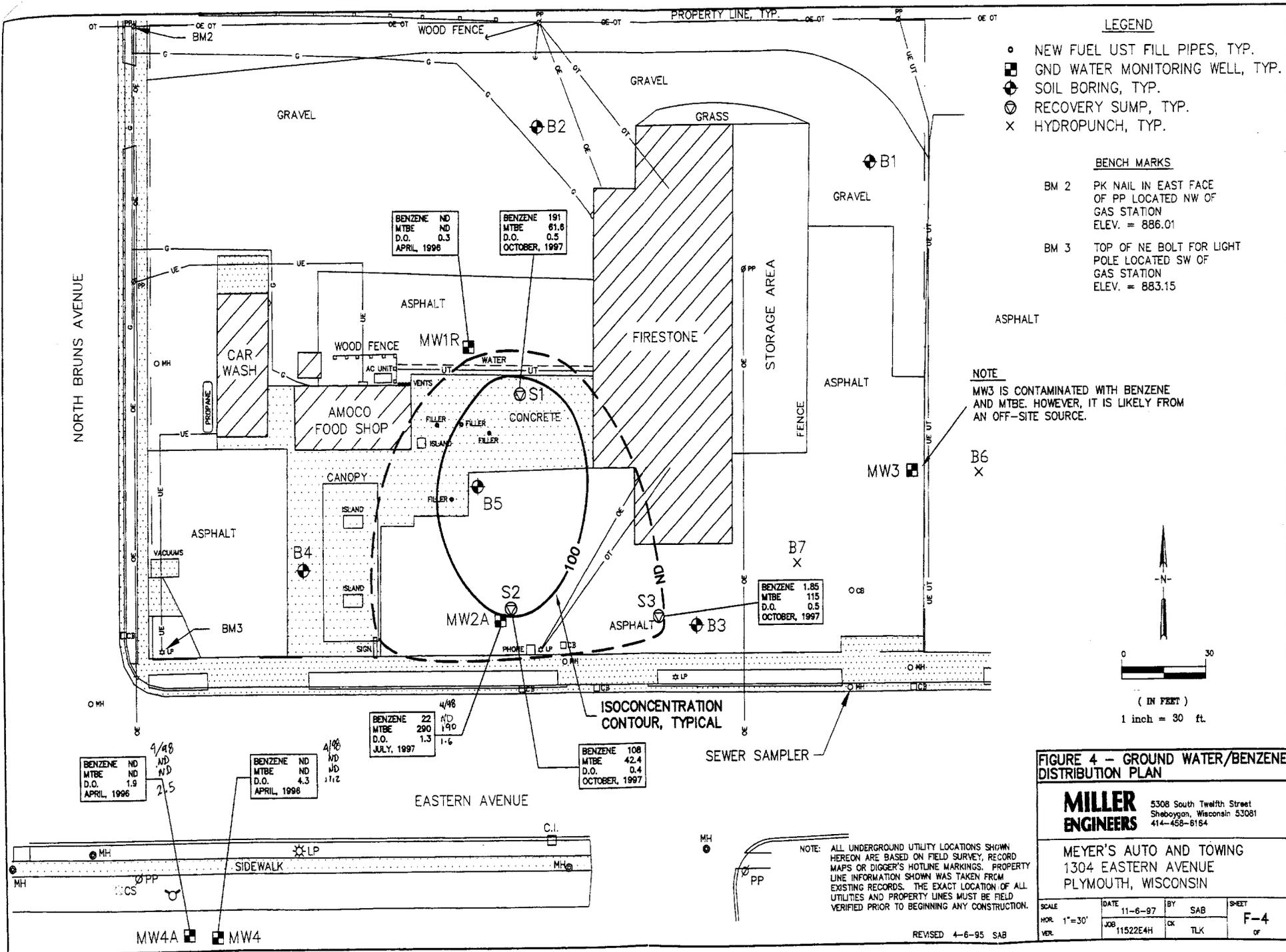
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**EASTERN AVE. ADD. LOTS 8,9,10 & 11 BLK 2**

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Close





**FIGURE 4 - GROUND WATER/BENZENE DISTRIBUTION PLAN**

**MILLER ENGINEERS** 5308 South Twelfth Street  
Sheboygan, Wisconsin 53081  
414-458-6164

**MEYER'S AUTO AND TOWING**  
1304 EASTERN AVENUE  
PLYMOUTH, WISCONSIN

BENZENE ND  
MTBE ND  
D.O. 1.9  
APRIL, 1996

BENZENE ND  
MTBE ND  
D.O. 4.3  
APRIL, 1996

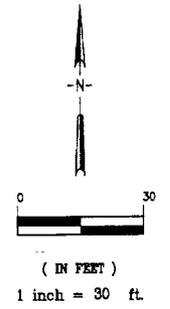
BENZENE 22  
MTBE 290  
D.O. 1.3  
JULY, 1997

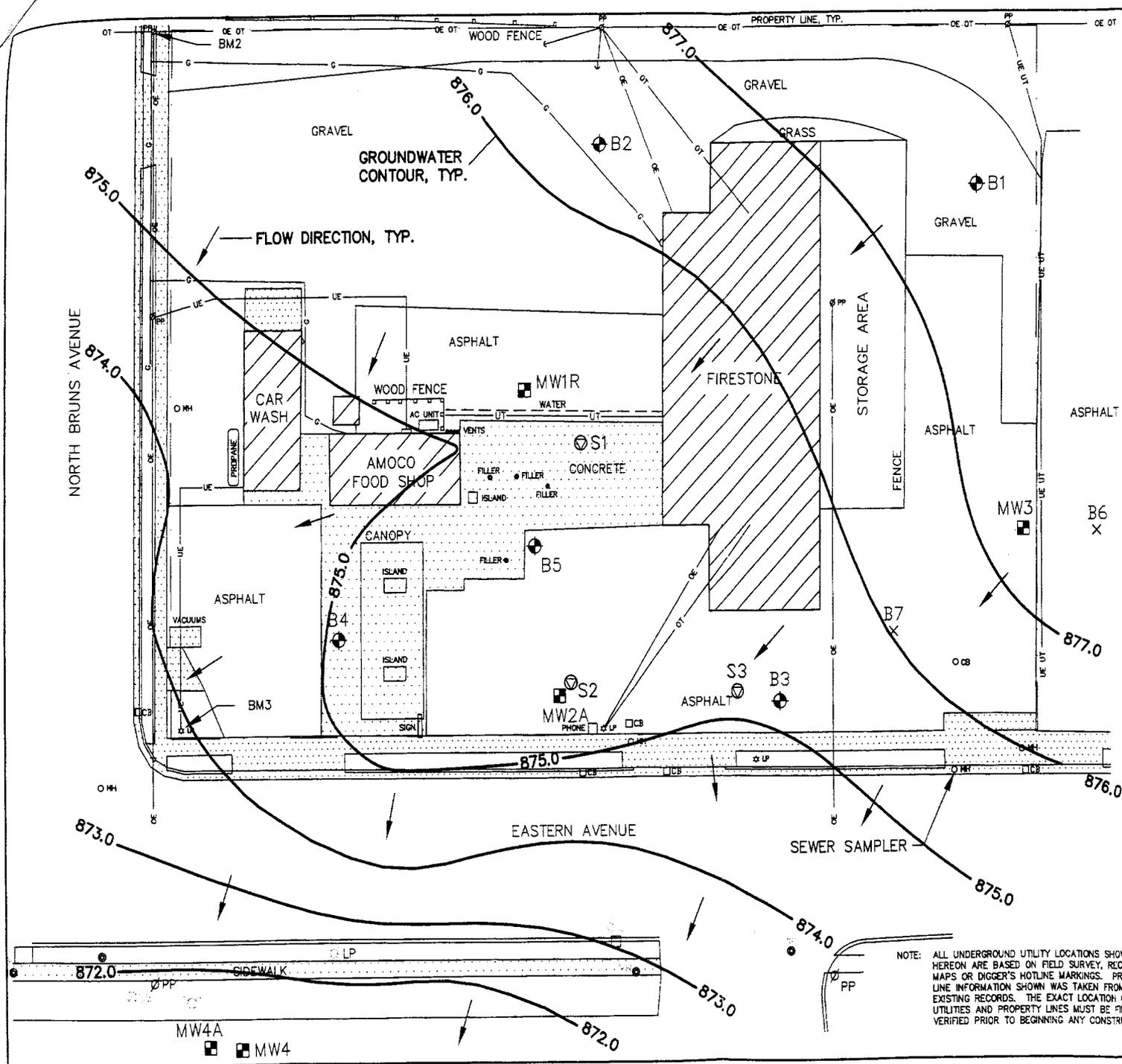
BENZENE 108  
MTBE 42.4  
D.O. 0.4  
OCTOBER, 1997

BENZENE ND  
MTBE ND  
D.O. 0.3  
APRIL, 1996

BENZENE 191  
MTBE 61.6  
D.O. 0.5  
OCTOBER, 1997

BENZENE 1.85  
MTBE 115  
D.O. 0.5  
OCTOBER, 1997



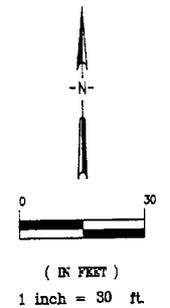


**LEGEND**

- NEW FUEL UST FILL PIPES, TYP.
- GND WATER MONITORING WELL, TYP.
- ⊕ SOIL BORING, TYP.
- ⊙ RECOVERY SUMP, TYP.
- × HYDROPUNCH, TYP.

**BENCH MARKS**

- BM 2 PK NAIL IN EAST FACE OF PP LOCATED NW OF GAS STATION ELEV. = 886.01
- BM 3 TOP OF NE BOLT FOR LIGHT POLE LOCATED SW OF GAS STATION ELEV. = 883.15



**FIG. 5 - GROUND WATER CONTOUR PLAN - TYPICAL**

**MILLER ENGINEERS** 5308 South Twelfth Street  
Sheboygan, Wisconsin 53081  
414-458-8184

**MEYER'S AUTO AND TOWING**  
1304 EASTERN AVENUE  
PLYMOUTH, WISCONSIN

SCALE	DATE	BY	SHEET
HOR. 1" = 30'		SAB	F-5
VER.	JOB 11522E4G	OK TLK	OF

NOTE: ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON FIELD SURVEY, RECORD MAPS OR DIGGER'S HOTLINE MARKINGS. PROPERTY LINE INFORMATION SHOWN WAS TAKEN FROM EXISTING RECORDS. THE EXACT LOCATION OF ALL UTILITIES AND PROPERTY LINES MUST BE FIELD VERIFIED PRIOR TO BEGINNING ANY CONSTRUCTION.

**TABLE 3**  
**Historic Ground Water Analytic Test Results**

Meyer Auto and Towing  
Project Number: 11522E

**MW1**

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
14-Jan-92	877.87	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	6.71	1390
01-Aug-94	well abandoned															

**MW1R**

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
26-Aug-92	876.93	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	6.50	1250
13-Jul-93	878.54	0.7	ND	ND	ND	ND	ND	ND	0.7	ND	--	--	--	--	7.14	1380
13-Oct-93	877.21	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	4.5	--	7.53	1260
20-Jan-94	874.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	6	--	7.0	658
29-Apr-94	875.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	7.8	630
01-Aug-94	874.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	1.6	--	6.98	790
08-Nov-94	874.66	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	7.45	880
26-Jan-95	875.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	7.05	890
20-Apr-95	876.90	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--	7.60	1340
16-Apr-96	876.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	0.3	7.11	820
18-Apr-97	876.69	ND	ND	ND	ND	ND	ND	*0.58	0.58	ND	--	--	--	0.5	7.42	820
17-Apr-98	876.82	ND	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	0.9	--	910

**MW2**

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
14-Jan-92	876.39	1,700	1,600	9,200	4,800	1,200	230	ND	18730	150	--	--	--	--	6.7	1870
30-Jul-92	876.40	2,116	1,515	4,024	7,206	827	113	175	15976	156	--	--	--	--	6.90	2020
13-Jul-93	876.78	3,330	3,540	9,850	17,600	2,520	654	742	38236	407	--	--	--	--	6.93	1760
13-Oct-93	876.39	2,450	2,340	3,720	10,900	1,570	369	214	21563	241	--	--	3.0	--	7.1	1660
20-Jan-94	874.70	2,340	2,170	2,740	10,700	1,550	394	280	20174	211	--	--	0.0	--	6.5	931
29-Apr-94	870.15	2,700	2,300	3,100	11,000	1,500	390	240	21230	--	--	--	--	--	8.3	877
05/06/94	well destroyed during excavation															

**TABLE 3**  
**Historic Ground Water Analytic Test Results**  
 MW2A

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
14-Jan-92	866.58	710	140	400	1,430	260	110	ND	3050	37	--	--	--	--	6.71	1570
01-Apr-92	Excavation															
30-Jul-92	863.63	746	263	5.4	286.3	75.9	19.4	333	1729	24.6	--	--	--	--	7.09	1520
13-Jul-93	869.29	650	266	10	225	65	20	575	1811	10	--	--	--	--	7.79	1030
13-Oct-93	864.91	1,070	445	13	418	113	27	469	2555	14	--	--	4.0	--	7.6	1020
20-Jan-94	not sampled due to ice build-up on flush mount cover															
29-Apr-94	867.16	1,300	520	280	1,300	210	ND	290	3900	--	--	--	--	--	8.0	623
01-Aug-94	866.26	1,860	398	70	904	208	48	427	3915	--	--	--	0.7	--	6.94	510
08-Nov-94	not sampled due to well damage															
26-Jan-95	867.14	412	90	ND	189	139	ND	169	999	--	--	--	--	--	5.73	1040
20-Apr-95	867.38	14	6	ND	10	5.2	ND	147	182.2	--	--	--	--	--	7.00	1670
27-Jul-95	867.10	12	15	55	68	34	8.3	160	352.3	--	--	--	0.3	--	6.55	1550
11-Oct-95	867.50	4.3	2.4	7.3	12	11	1.0	180	218	--	--	--	0.1	--	6.46	1110
16-Jan-96	865.96	1.6	1.6	3.4	7.2	2.8	1.1	1100	1117.7	--	--	--	2.3	--	6.42	810
16-Apr-96	866.29	1.3	ND	1.9	3.7	9.5	ND	1300	1316.4	--	--	--	0.2	-155	6.60	980
22-Apr-96	Ground water extraction															
16-Jul-96	864.63	540	10	8.7	31.0	7.9	ND	620	1217.6	--	--	--	1.5	-120	6.45	1030
30-Jul-96	864.82	530	12	8.4	37.0	9.0	2.5	600	1198.9	--	--	--	0.4	-158	7.37	1860
14-Oct-96	865.49	230	ND	ND	ND	ND	ND	430	660	--	--	--	--	--	7.14	1130
15-Jan-97	864.76	250	3.9	3.5	16	2.7	ND	390	666.1	--	--	--	--	--	6.49	1000
18-Apr-97	864.93	17	0.78	0.53	3.2	0.51	ND	270	292.02	--	--	--	0.4	--	7.17	1100
14-Jul-97	864.88	22	1.7	0.82	5.2	1.4	ND	290	321.12	--	--	--	1.3	--	6.93	1030
21-Jan-98	864.03	0.843	ND	ND	ND	ND	ND	292	292.843	--	3.82	--	2.1	--	6.92	1890
17-Apr-98	864.57	ND	ND	ND	ND	ND	ND	190	190	--	--	--	1.6	--	--	1120
03-Aug-99		0.74	ND	0.21	ND	ND	ND	98	98.95	ND	--	--	--	--	--	--

**TABLE 3**  
**Historic Ground Water Analytic Test Results**

MW3																
Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
14-Jan-92	878.23	160	31	5	31.4	13	2.2	ND	242.6	2.4	--	--	--	--	6.77	1340
01-Apr-92	Excavation															
30-Jul-92	877.33	217.7	32.6	3.3	54.1	10.1	ND	ND	317.8	3.3	--	--	--	--	6.85	1390
13-Jul-93	877.87	113	58	17	109	18	3.9D	23	338	5.2D	--	--	--	--	7.8	1540
13-Oct-93	877.50	68	29	3.1	39	6.9	ND	1.7	147.7	191D	--	--	0.0	--	7.01	1390
20-Jan-94	874.99	21	8.3	1.3	9.6	2.4	ND	ND	42.6	211	--	--	3.2	--	7.5	793
29-Apr-94	877.71	120	47	ND	44	17	ND	ND	228	--	--	--	--	--	7.80	851
01-Aug-94	877.58	6.3	ND	ND	ND	ND	ND	ND	6.3	--	--	--	1.5	--	6.96	1160
08-Nov-94	877.25	6.6	1.6	ND	ND	ND	ND	ND	8.2	--	--	--	--	--	7.34	1170
26-Jan-95	876.60	38	9.0	2.0	5.5	1.8	ND	ND	45.3	--	--	--	--	--	6.52	910
20-Apr-95	878.43	85	90	ND	73	ND	ND	ND	248	--	--	--	--	--	6.95	2040
27-Jul-95	877.20	9.4	4.3	1.8	3.7	1.9	0.92	ND	22.02	--	--	--	1.4	--	6.62	1680
11-Oct-95	877.33	16	6.5	1.9	3.4	ND	ND	ND	27.8	--	--	--	0.4	--	6.82	1240
16-Apr-96	878.22	160	150	10	130	32	6.8	38	526.8	--	--	--	0.5	162	6.56	1170
18-Apr-97	877.80	94	120	6.1	53	13	1.5	ND	287.6	--	--	--	0.9	--	7.14	1410
17-Apr-98	878.20	32.6	44.5	1.17	16.2	2.83	1.11	ND	98.41	--	--	--	1.1	--	--	1072
03-Aug-99		3.1	3.6	0.85	0.85	ND	ND	ND	8.4	ND	--	--	--	--	--	--

MW4																
Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
29-Apr-94	872.41	ND	ND	9.9	ND	2.2	ND	ND	12.1	ND	--	--	--	--	7.8	573
01-Aug-94	871.68	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	4.1	--	7.21	850
08-Nov-94	870.66	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	--	--	7.57	840
26-Jan-95	870.81	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	--	--	7.27	900
20-Apr-95	not sampled due to traffic												--	--	--	--
16-Apr-96	873.33	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	4.3	75	6.69	830
18-Apr-97	872.99	ND	ND	ND	ND	ND	ND	*0.36	0.36	--	--	--	3.0	--	7.3	910
17-Apr-98	874.45	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	11.2	--	--	920
03-Aug-99		ND	ND	ND	ND	ND	ND	1.1	1.1	ND	--	--	--	--	--	--

**TABLE 3**  
**Historic Ground Water Analytic Test Results**  
 MW4A

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MIBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
29-Apr-94	857.14	ND	ND	5.7	ND	ND	ND	ND	5.7	ND	--	--	--	--	7.7	840
01-Aug-94	861.11	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	1.9	--	7.10	1000
08-Nov-94	858.31	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	--	--	7.68	1040
26-Jan-95	857.95	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	--	--	8.08	1100
20-Apr-95	861.79	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	--	--	7.31	1670
16-Apr-96	861.34	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	1.9	72	6.81	960
18-Apr-97	862.07	ND	ND	ND	ND	ND	ND	*4.5	4.5	--	--	--	1.6	--	7.28	1000
17-Apr-98	863.11	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	2.5	--	--	980

S1

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MIBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)	
01-Aug-94	871.71	ND	ND	ND	ND	ND	ND	248	248	--	--	--	0.7	--	7.10	720	
08-Nov-94	873.85	12	ND	ND	ND	ND	1.1	68	81.1	--	--	--	--	--	7.53	860	
26-Jan-95	874.96	106	12	19	11	6.1	ND	93	247.1	--	--	--	--	--	6.75	800	
20-Apr-95	876.02	232	57	186	109	ND	ND	77	661	--	--	--	--	--	7.18	1540	
27-Jul-95	876.14	ND	ND	ND	ND	ND	ND	ND	0	--	--	--	0.8	--	6.96	1150	
11-Oct-95	875.87	270	22	13	ND	10	ND	490	805	--	--	--	5.5	--	6.59	970	
16-Jan-96	875.27	210	1.9	2.8	ND	ND	ND	300	514.7	--	--	--	3.4	--	6.79	710	
16-Apr-96	876.02	140	29	90	74	15	4.2	52	404.2	--	--	--	0.3	-193	--	780	
22-Apr-96	Ground water extraction																
16-Jul-96	873.01	1.5	ND	ND	ND	ND	ND	1.5	3	--	--	--	22?	29	6.67	740	
14-Oct-96	874.85	12	ND	ND	ND	ND	ND	56	68	--	--	--	--	--	7.26	820	
15-Jan-97	875.32	38	0.40	13	1.0	0.29	0.68	260	313.37	--	--	--	3.2	--	6.81	720	
22-Apr-97	876.04	160	6.9	12	12	2.5	0.71	130	324.11	--	--	--	1.0	--	7.33	830	
14-Jul-97	875.94	500	14	1.4	1.4	1.2	ND	82	600.0	--	--	--	0.2	--	6.73	900	
21-Oct-97	875.52	191	ND	17.5	ND	ND	ND	61.6	270.1	--	3.04	0.102	0.5	-176	--	710	
21-Jan-98	876.77	22.6	ND	ND	ND	ND	ND	116	138.6	--	3.13	--	0.9	--	6.97	1560	
17-Apr-98	876.42	42.5	3.96	15.8	8.81	3.73	ND	4.51	79.31	--	--	--	0.7	--	--	620	

**TABLE 3**  
**Historic Ground Water Analytic Test Results**  
**S2**

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl- benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri- methylbenzene (ppb)	1,3,5 Tri- methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphtha- lene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
01-Aug-94	871.73	491	260	<b>109</b>	598	203	65	127	1853	--	--	--	0.9	--	6.99	1340
08-Nov-94	873.91	5.8	3.3	ND	ND	2.8	2.4	<b>39</b>	53.3	--	--	--	--	--	7.19	1420
26-Jan-95	874.99	77	8.6	ND	4.3	4.7	ND	63	157.6	--	--	--	--	--	5.86	1280
20-Apr-95	876.04	29	5.7	ND	3.7	ND	ND	<b>43</b>	81.4	--	--	--	--	--	7.00	1930
27-Jul-95	875.94	110	ND	ND	ND	ND	ND	470	580	--	--	--	0.3	--	6.70	1340
11-Oct-95	875.87	ND	ND	ND	ND	ND	ND	<del>3800</del>	3800	--	--	--	2.0	--	6.67	840
16-Jan-96	875.45	ND	ND	ND	ND	ND	ND	<del>2500</del>	2500	--	--	--	1.6	--	6.84	960
16-Apr-96	875.94	6.4	ND	ND	ND	ND	ND	<del>2400</del>	2406.4	--	--	--	0.4	-055	6.77	680
16-Jul-96	873.02	15	1.5	2.3	26	5.0	1.0	200	250.8	--	--	--	1.9	45	6.58	850
14-Oct-96	874.87	24	35	34	100	9.1	ND	230	432.1	--	--	--	--	--	7.26	950
15-Jan-97	875.65	0.14	0.28	ND	ND	ND	ND	150	150.42	--	--	--	2.6	--	6.61	860
18-Apr-97	876.15	0.40	ND	ND	ND	ND	ND	72	72.4	--	--	--	0.8	--	7.16	1050
14-Jul-97	875.96	640	15	33	62	8.7	1.9	<b>25</b>	785.6	--	--	--	0.4	--	6.9	950
21-Oct-97	875.77	108	4.78	ND	ND	ND	ND	<b>42.4</b>	155.18	--	1.63	0.206	0.4	-39	--	730
21-Jan-98	875.77	ND	ND	ND	ND	ND	ND	<b>37.7</b>	37.7	--	0.037	--	1.4	--	7.15	1690
17-Apr-98	876.35	89.9	ND	ND	12.40	ND	ND	<b>27.7</b>	130	--	--	--	1.1	--	--	900

**TABLE 3**  
**Historic Ground Water Analytic Test Results**  
 S3

Date	GW Elevation (USGS)	Benzene (ppb)	Ethyl-benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	1,2,4 Tri-methylbenzene (ppb)	1,3,5 Tri-methylbenzene (ppb)	MTBE (ppb)	Total PVOC (ppb)	Naphthalene (ppb)	Dissolv. Iron (ppm)	Dissolv. Mang. (ppm)	D.O. (ppm)	Eh (mV)	pH (SU)	Conduct. (µmhos/cm)
01-Aug-94	871.75	8.6	ND	ND	5.8	1.7	ND	ND	16.1	--	--	--	1.0	--	6.85	890
08-Nov-94	873.92	86	27	4.2	14	12	7.9	17	168.1	--	--	--	--	--	7.31	1010
26-Jan-95	875.00	139	28	3.6	11	3.4	ND	13	198	--	--	--	--	--	6.61	1010
20-Apr-95	876.03	2.5	ND	ND	ND	ND	ND	19	21.5	--	--	--	--	--	7.11	1780
27-Jul-95	876.92	25	9.2	ND	5.2	5	ND	23	67.4	--	--	--	4.4	--	6.67	1560
11-Oct-95	875.90	2.0	ND	ND	ND	ND	ND	39	41	--	--	--	4.8	--	7.36	920
16-Jan-96	875.41	ND	ND	ND	ND	ND	ND	99	99	--	--	--	1.5	--	7.14	820
16-Apr-96	876.05	0.76	ND	ND	ND	ND	ND	250	250.76	--	--	--	0.7	-020	6.79	810
16-Jul-96	873.02	12	ND	ND	6.4	3.4	1	8.9	31.7	--	--	--	1.6	182	7.56	770
14-Oct-96	874.89	100	34	2.1	ND	ND	ND	ND	136.1	--	--	--	--	--	6.88	950
15-Jan-97	875.62	ND	ND	0.51	0.53	ND	ND	49	50.04	--	--	--	3.8	--	7.16	860
18-Apr-97	876.16	ND	ND	ND	ND	ND	ND	*57	57	--	--	--	0.8	--	7.23	940
14-Jul-97	876.00	39	ND	ND	ND	ND	ND	56	95	--	--	--	0.4	--	6.67	1080
21-Oct-97	875.80	1.85	ND	ND	ND	ND	ND	115	116.85	--	4.91	0.28	0.5	-137	--	920
21-Jan-98	875.73	ND	ND	ND	ND	ND	ND	93.8	93.8	--	0.325	--	--	--	7.23	840
17-Apr-98	876.35	ND	ND	ND	ND	ND	ND	68.8	68.8	--	--	--	1.0	--	--	900

ND = Compound Not Detected above the given Method Detection Limit  
 \* = MTBE detected in the field blank and trip blank  
 0.00 = Exceeds NR140 Ground Water Enforcement Standards  
 0.00 = Exceeds NR140 Ground Water Preventive Action Limit

NR140 Ground Water Standards (ppb)	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE
Enforcement Standard	5	700	343	620	60
Preventive Action Limit	0.5	140	68.6	124	12

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 Eastern 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 North Bruns Avenue and Highland Avenue (CTH E) within the roadway right-of-way. Sites listed on the BRRTS Map include:

1. Meyer Auto & Towing (North Side of Eastern Avenue)  
1304 Eastern Avenue  
Plymouth, WI 53073  
Commerce #: 53073-2017-04  
BRRTS #: 03-60-001777  
FID #: 460062130
2. Clark Oil #1689 (South Side of Eastern Avenue)  
1403 Eastern Avenue  
Plymouth, WI 53073  
Commerce #: 53073-2093-03  
BRRTS #: 03-60-004830  
FID #: 460153430
3. 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 7 to 8 feet during water main replacement downgradient of 1312 and 1324 Eastern Avenue. A BP station currently operates at the site and the site was formerly Meyer Auto & Towing. A bentonite dam was placed before the encountered contamination (92+57) and ductile iron pipe was utilized within the contaminated area. Forty feet of ductile iron piping was placed and another bentonite dam was placed (92+97). Photoionization Detector (PID) readings varied from 183 to 129 parts per million by volume (ppmv) in the area of contamination. Waste Characterization Sample (WCS-1) was collected within the contaminated area and analyzed for Gasoline Range Organics (GRO) and Petroleum Volatile Range Organics (PVOCs). Results are shown in Table 1.

A second area of contamination at a depth of 7 to 8 feet was encountered 20 feet after the second bentonite dam. Another bentonite dam was placed (93+16) and one hundred twenty feet of ductile iron piping was utilized and another bentonite dam was placed (94+20). PID readings varied from 33.9 to 1,639 parts per million by volume (ppmv) in the area of contamination. Waste Characterization Sample (WCS-2) was collected within the contaminated area and analyzed for GRO and PVOCs. Results are shown in Table 1.

A total of 84.46 tons of contaminated soils were removed from the two (2) areas and disposed of at Veolia ES Hickory Meadows Landfill in Hilbert, Wisconsin. As-Built drawings Sheet 11 and 12 depict the location of bentonite dams and areas 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  
 Eastern Avenue Water Main Replacement  
 Plymouth, Wisconsin

analyte	WCS-1		WCS-2	
	result	units	result	units
Gasoline Range Organics	21	mg/kg	100	mg/kg
PVOCs				
Benzene	<29	ug/kg	<31	ug/kg
Ethylbenzene	<29	ug/kg	430	ug/kg
Methyl tert-Butyl Ether	<29	ug/kg	<31	ug/kg
Toluene	<29	ug/kg	37	ug/kg
1,2,4-Trimethylbenzene	95	ug/kg	2,400	ug/kg
1,3,5-Trimethylbenzene	<29	ug/kg	670	ug/kg
Xylenes (total)	<86	ug/kg	1,100	ug/kg
Metals				
Lead	3.2	mg/kg	8.8	mg/kg

RIGHT-OF-WAY



**KAPUR & ASSOCIATES, INC.**  
CONSULTING ENGINEERS  
7711 N. FORT WASHINGTON ROAD  
MILWAUKEE, WISCONSIN 53217  
Phone: 414.351.8668 Fax: 414.351.4117  
www.kapurengineers.com

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

LOCATION:  
**CITY OF  
PLYMOUTH,  
WISCONSIN**

CLIENT:



RELEASE:

**AS-BUILT**

REVISIONS:

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

NORTH ARROW:



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

IF NOT ONE INCH ADJUST SCALE ACCORDINGLY

SEAL:

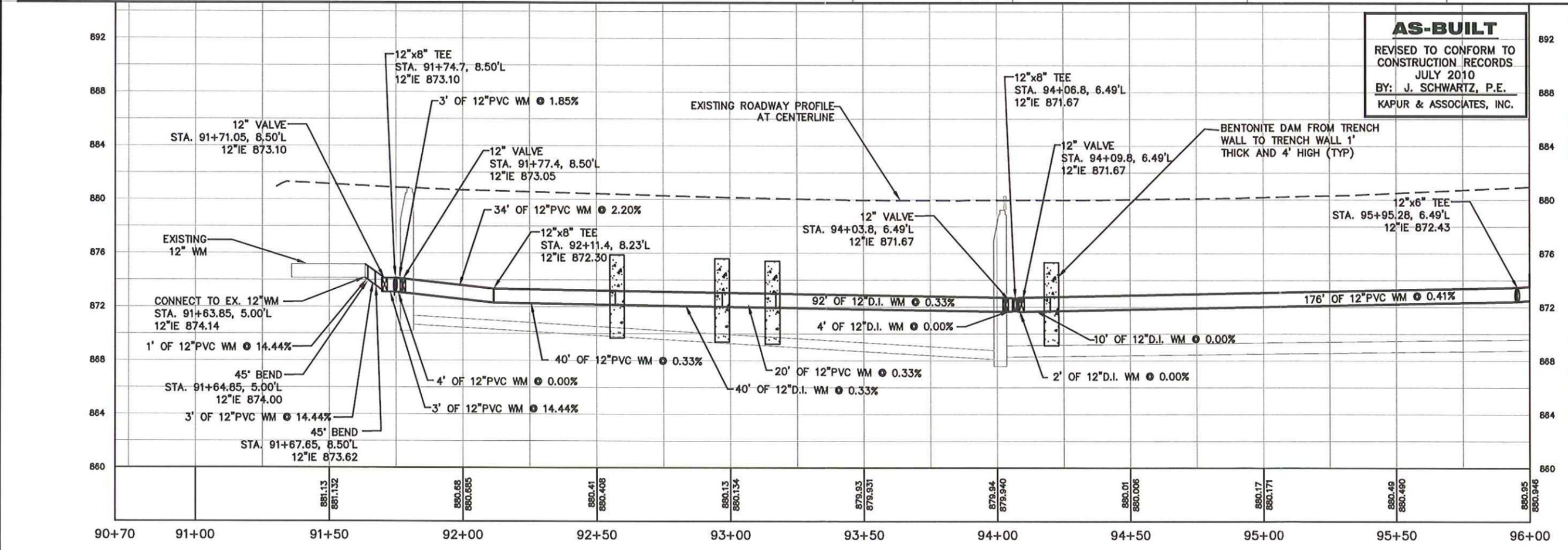
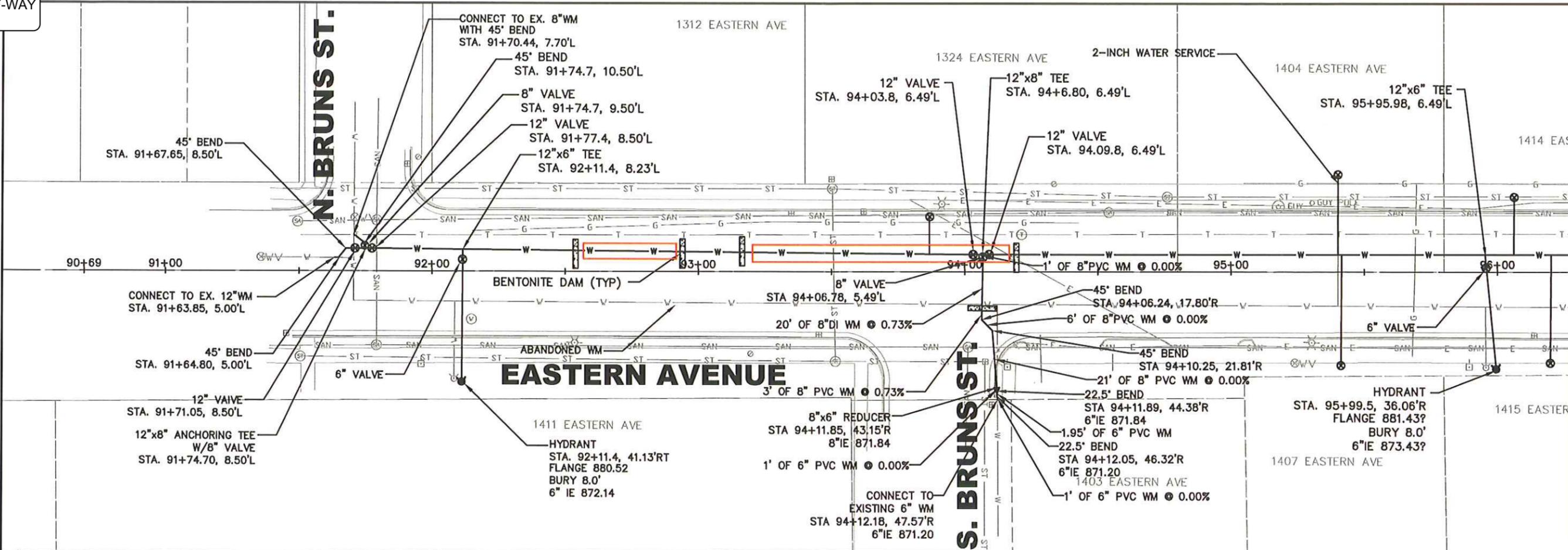
we listen. we innovate.  
we turn your vision into reality.

SHEET:

**EASTERN AVENUE  
WATER MAIN**

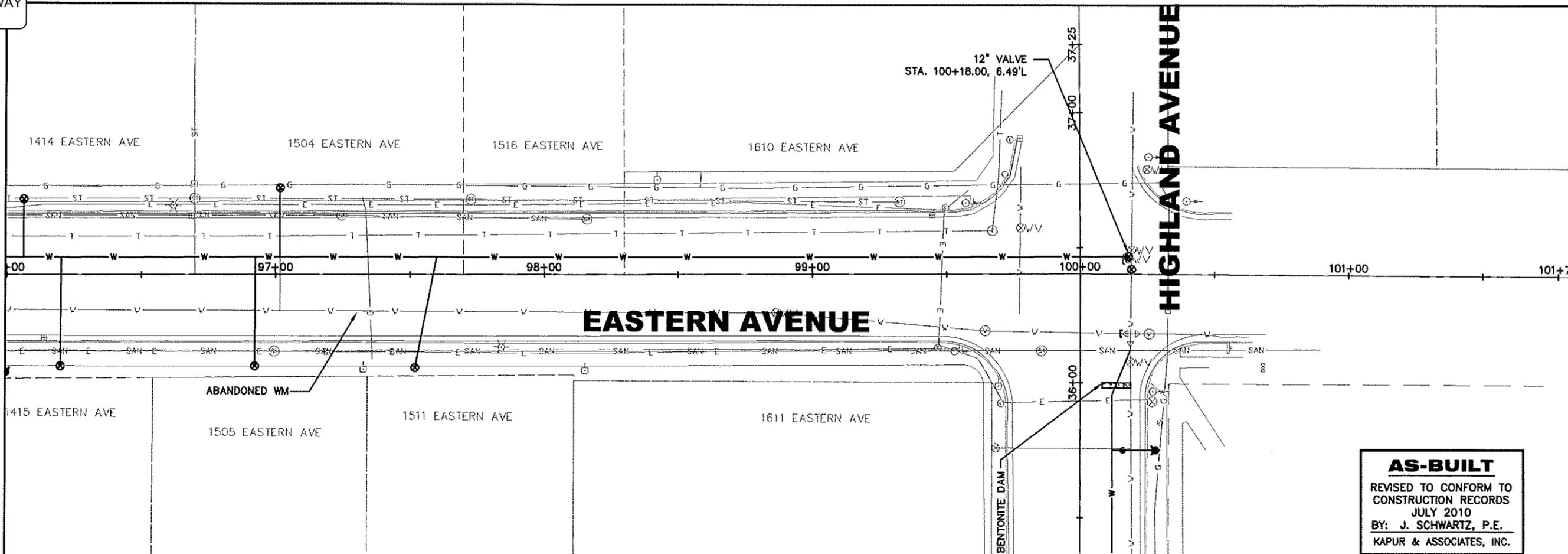
DESIGNED BY: JLS  
DRAWN BY: GB  
CHECKED BY: ARG  
APPROVED BY: DPA  
PROJECT NUMBER: 08.0206.07

SHEET NUMBER:  
**11**

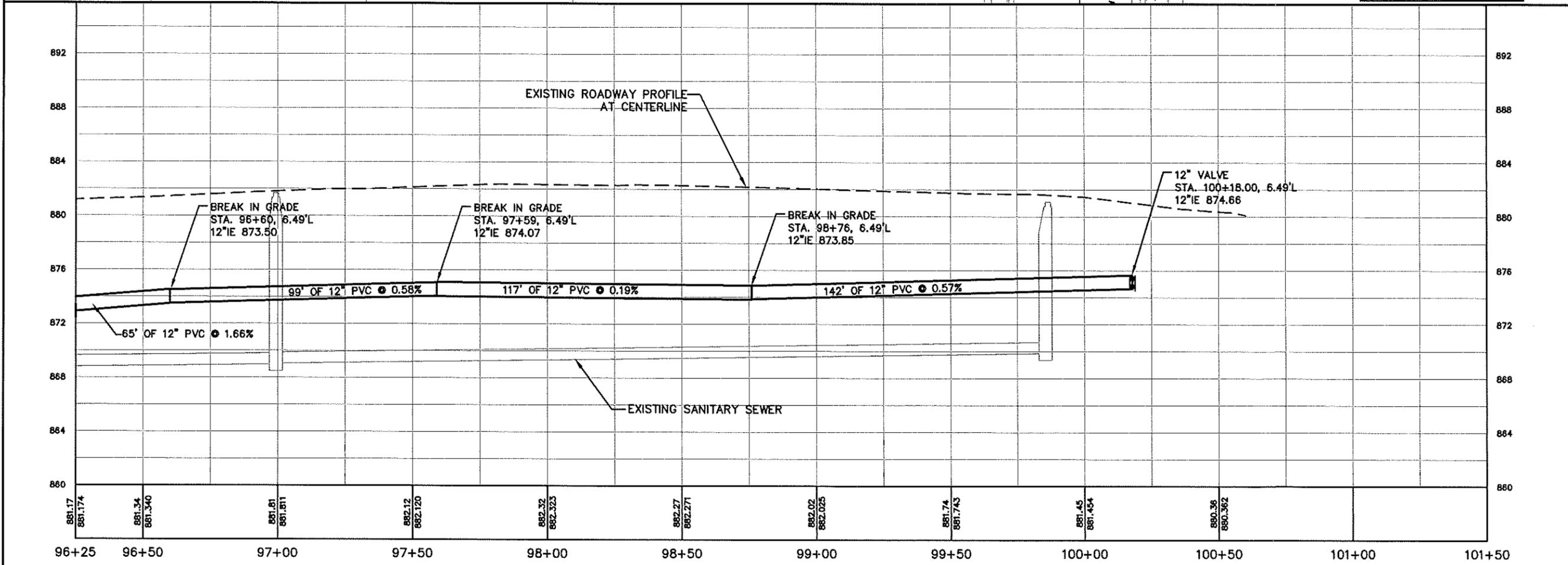


**AS-BUILT**  
REVISED TO CONFORM TO  
CONSTRUCTION RECORDS  
JULY 2010  
BY: J. SCHWARTZ, P.E.  
KAPUR & ASSOCIATES, INC.

RIGHT-OF-WAY



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



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 www.kapurengineers.com

PROJECT:  
 2010 WATER MAIN,  
 SANITARY SEWER  
 AND ROAD WORK

LOCATION:  
 CITY OF  
 PLYMOUTH,  
 WISCONSIN

CLIENT:

RELEASE:  
 AS-BUILT

REVISIONS:

#	DATE	DESCRIPTION
1	02/15/10	PRELIMINARY
2	03/11/10	SD SET
3	03/30/10	CONSTRUCTION SET
4	03/01/11	AS-BUILT

NORTH ARROW:

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

IF NOT ONE INCH ALIQUOT SCALE ACCORDINGLY

SEAL:

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

SHEET:  
**EASTERN AVENUE  
 WATER MAIN**

DESIGNED BY: JLS  
 DRAWN BY: GD  
 CHECKED BY: ARS  
 APPROVED BY: DPA  
 PROJECT NUMBER: 08 0208 07

SHEET NUMBER:  
**12**

May 11, 2010

Client: KAPUR & ASSOCIATES, INC.  
7711 N. Port Washington Road  
Milwaukee, WI 53217

Work Order: WTE0013  
Project Name: Plymouth DPW; Plymouth, WI  
Project Number: Eastern Ave - WM Replacement

Attn: Ms. Patricia Hermann

Date Received: 05/03/10

An executed copy of the chain of custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-833-7036

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
WCS-1	WTE0013-01	04/28/10
WCS-2	WTE0013-02	04/29/10
Trip Blank	WTE0013-03	04/28/10

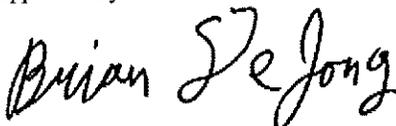
Samples were received into laboratory at a temperature of 3 °C.

Wisconsin Certification Number: 128053530

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

*Unless subcontracted, volatiles analyses (including VOC, PVO, GRO, BTEX, and TPH gasoline) performed by TestAmerica Watertown at 1101 Industrial Drive, Units 9&10. All other analyses performed at the address shown in the heading of this report.*

Approved By:



TestAmerica Watertown  
Brian DeJong For Sandie Fredrick  
Project Manager

KAPUR & ASSOCIATES, INC.  
7711 N. Port Washington Road  
Milwaukee, WI 53217  
Ms. Patricia Hermann

Work Order: WTE0013  
Project: Plymouth DPW; Plymouth, WI  
Project Number: Eastern Ave - WM Replacement

Received: 05/03/10  
Reported: 05/11/10 14:31

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MRL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
<b>Sample ID: WTE0013-01 (WCS-1 - Solid/Soil)</b>						<b>Sampled: 04/28/10</b>			
General Chemistry Parameters									
% Solids	87		%	NA	1	05/07/10 16:13	pam	10E0192	SM 2540G
Metals									
Lead	3.2		mg/kg dry	1.4	1	05/10/10 15:18	gaf	10E0127	SW 6010B
GC VOLATILES									
Benzene	<29		ug/kg dry	29	1	05/04/10 22:24	ABA	10E0050	SW 8021
Ethylbenzene	<29		ug/kg dry	29	1	05/04/10 22:24	ABA	10E0050	SW 8021
Methyl tert-Butyl Ether	<29		ug/kg dry	29	1	05/04/10 22:24	ABA	10E0050	SW 8021
Toluene	<29		ug/kg dry	29	1	05/04/10 22:24	ABA	10E0050	SW 8021
1,2,4-Trimethylbenzene	95		ug/kg dry	29	1	05/04/10 22:24	ABA	10E0050	SW 8021
1,3,5-Trimethylbenzene	<29		ug/kg dry	29	1	05/04/10 22:24	ABA	10E0050	SW 8021
Xylenes, total	<86		ug/kg dry	86	1	05/04/10 22:24	ABA	10E0050	SW 8021
Gasoline Range Organics	21		mg/kg dry	5.8	1	05/04/10 22:24	ABA	10E0050	WDNR GRO
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	115 %								
<b>Sample ID: WTE0013-02 (WCS-2 - Solid/Soil)</b>						<b>Sampled: 04/29/10</b>			
General Chemistry Parameters									
% Solids	81		%	NA	1	05/07/10 16:13	pam	10E0192	SM 2540G
Metals									
Lead	8.8		mg/kg dry	1.4	0.9	05/10/10 15:22	gaf	10E0127	SW 6010B
GC VOLATILES									
Benzene	<31		ug/kg dry	31	1	05/05/10 22:53	ABA	10E0092	SW 8021
Ethylbenzene	430		ug/kg dry	31	1	05/05/10 22:53	ABA	10E0092	SW 8021
Methyl tert-Butyl Ether	<31		ug/kg dry	31	1	05/05/10 22:53	ABA	10E0092	SW 8021
Toluene	37		ug/kg dry	31	1	05/05/10 22:53	ABA	10E0092	SW 8021
1,2,4-Trimethylbenzene	2400		ug/kg dry	31	1	05/05/10 22:53	ABA	10E0092	SW 8021
1,3,5-Trimethylbenzene	670		ug/kg dry	31	1	05/05/10 22:53	ABA	10E0092	SW 8021
Xylenes, total	1100		ug/kg dry	93	1	05/05/10 22:53	ABA	10E0092	SW 8021
Gasoline Range Organics	100		mg/kg dry	6.2	1	05/05/10 22:53	ABA	10E0092	WDNR GRO
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	95 %								
<b>Sample ID: WTE0013-03 (Trip Blank - Solid/Soil)</b>						<b>Sampled: 04/28/10</b>			
GC VOLATILES									
Benzene	<25		ug/kg wet	25	1	05/04/10 23:18	ABA	10E0050	SW 8021
Ethylbenzene	<25		ug/kg wet	25	1	05/04/10 23:18	ABA	10E0050	SW 8021
Methyl tert-Butyl Ether	<25		ug/kg wet	25	1	05/04/10 23:18	ABA	10E0050	SW 8021
Toluene	<25		ug/kg wet	25	1	05/04/10 23:18	ABA	10E0050	SW 8021
1,2,4-Trimethylbenzene	<25		ug/kg wet	25	1	05/04/10 23:18	ABA	10E0050	SW 8021
1,3,5-Trimethylbenzene	<25		ug/kg wet	25	1	05/04/10 23:18	ABA	10E0050	SW 8021
Xylenes, total	<75		ug/kg wet	75	1	05/04/10 23:18	ABA	10E0050	SW 8021
Gasoline Range Organics	<5.0		mg/kg wet	5.0	1	05/04/10 23:18	ABA	10E0050	WDNR GRO
<i>Surr: 4-Bromofluorobenzene (80-120%)</i>	99 %								

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Project Number: Eastern Ave - WM Replacement

Received: 05/03/10  
Reported: 05/11/10 14:31

## LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Metals</b>														
Lead	10E0127			mg/kg wet	N/A	1.2	<1.2							
<b>GC VOLATILES</b>														
Benzene	10E0050			ug/kg wet	N/A	25	<25							
Ethylbenzene	10E0050			ug/kg wet	N/A	25	<25							
Methyl tert-Butyl Ether	10E0050			ug/kg wet	N/A	25	<25							
Toluene	10E0050			ug/kg wet	N/A	25	<25							
1,2,4-Trimethylbenzene	10E0050			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10E0050			ug/kg wet	N/A	25	<25							
Xylenes, total	10E0050			ug/kg wet	N/A	75	<75							
Gasoline Range Organics	10E0050			mg/kg wet	N/A	5.0	<5.0							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10E0050</i>			ug/kg wet					94		80-120			
Benzene	10E0092			ug/kg wet	N/A	25	<25							
Ethylbenzene	10E0092			ug/kg wet	N/A	25	<25							
Methyl tert-Butyl Ether	10E0092			ug/kg wet	N/A	25	<25							
Toluene	10E0092			ug/kg wet	N/A	25	<25							
1,2,4-Trimethylbenzene	10E0092			ug/kg wet	N/A	25	<25							
1,3,5-Trimethylbenzene	10E0092			ug/kg wet	N/A	25	<25							
Xylenes, total	10E0092			ug/kg wet	N/A	75	<75							
Gasoline Range Organics	10E0092			mg/kg wet	N/A	5.0	<5.0							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>10E0092</i>			ug/kg wet					100		80-120			

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## CCV QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>Metals</b>														
Lead	T000954		5.0	mg/L	N/A	N/A	5.30		106		90-110			
<b>GC VOLATILES</b>														
Benzene	T000908		2000	ug/kg wet	N/A	N/A	1800		90		85-115			
Ethylbenzene	T000908		2000	ug/kg wet	N/A	N/A	1850		92		85-115			
Methyl tert-Butyl Ether	T000908		2000	ug/kg wet	N/A	N/A	1880		94		85-115			
Toluene	T000908		2000	ug/kg wet	N/A	N/A	1820		91		85-115			
1,2,4-Trimethylbenzene	T000908		2000	ug/kg wet	N/A	N/A	1790		90		85-115			
1,3,5-Trimethylbenzene	T000908		2000	ug/kg wet	N/A	N/A	1760		88		85-115			
Xylenes, total	T000908		6000	ug/kg wet	N/A	N/A	5470		91		85-115			
Gasoline Range Organics	T000908		20	mg/kg wet	N/A	N/A	20.1		101		80-120			
Surrogate: 4-Bromofluorobenzene	T000908			ug/kg wet					100		80-120			
Benzene	T000921		2000	ug/kg wet	N/A	N/A	1980		99		85-115			
Ethylbenzene	T000921		2000	ug/kg wet	N/A	N/A	2010		100		85-115			
Methyl tert-Butyl Ether	T000921		2000	ug/kg wet	N/A	N/A	1980		99		85-115			
Toluene	T000921		2000	ug/kg wet	N/A	N/A	1980		99		85-115			
1,2,4-Trimethylbenzene	T000921		2000	ug/kg wet	N/A	N/A	1990		100		85-115			
1,3,5-Trimethylbenzene	T000921		2000	ug/kg wet	N/A	N/A	1980		99		85-115			
Xylenes, total	T000921		6000	ug/kg wet	N/A	N/A	6020		100		85-115			
Gasoline Range Organics	T000921		20	mg/kg wet	N/A	N/A	20.0		100		80-120			
Surrogate: 4-Bromofluorobenzene	T000921			ug/kg wet					101		80-120			

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### LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>													
QC Source Sample: WTE0207-03													
% Solids	10E0192	82.7		%	N/A	N/A	82.6				0	20	

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## LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike		MDL	MRL	Result	Dup	%	Dup	% REC	RPD		Q
			Level	Units				Result	REC	%REC	Limits	RPD	Limit	
<b>Metals</b>														
Lead	10E0127		100	mg/kg wet	N/A	1.2	107		107			85-115		
<b>GC VOLATILES</b>														
Benzene	10E0050		5000	ug/kg wet	N/A	N/A	4730	4240	95	85	80-120	11	20	
Ethylbenzene	10E0050		5000	ug/kg wet	N/A	N/A	4950	4370	99	87	80-120	13	20	
Methyl tert-Butyl Ether	10E0050		5000	ug/kg wet	N/A	N/A	4860	4570	97	91	80-120	6	20	
Toluene	10E0050		5000	ug/kg wet	N/A	N/A	4850	4320	97	86	80-120	11	20	
1,2,4-Trimethylbenzene	10E0050		5000	ug/kg wet	N/A	N/A	4950	4330	99	87	80-120	14	20	
1,3,5-Trimethylbenzene	10E0050		5000	ug/kg wet	N/A	N/A	4800	4180	96	84	80-120	14	20	
Xylenes, total	10E0050		15000	ug/kg wet	N/A	N/A	14700	13000	98	87	80-120	12	20	
Gasoline Range Organics	10E0050		50	mg/kg wet	N/A	N/A	51.6	46.0	103	92	80-120	12	20	
Surrogate: 4-Bromofluorobenzene	10E0050			ug/kg wet					100	99	80-120			
Benzene	10E0092		5000	ug/kg wet	N/A	N/A	4720	4720	94	94	80-120	0	20	
Ethylbenzene	10E0092		5000	ug/kg wet	N/A	N/A	4910	4810	98	96	80-120	2	20	
Methyl tert-Butyl Ether	10E0092		5000	ug/kg wet	N/A	N/A	4850	4720	97	94	80-120	3	20	
Toluene	10E0092		5000	ug/kg wet	N/A	N/A	4810	4770	96	95	80-120	1	20	
1,2,4-Trimethylbenzene	10E0092		5000	ug/kg wet	N/A	N/A	4920	4750	98	95	80-120	4	20	
1,3,5-Trimethylbenzene	10E0092		5000	ug/kg wet	N/A	N/A	4770	4590	95	92	80-120	4	20	
Xylenes, total	10E0092		15000	ug/kg wet	N/A	N/A	14600	14300	97	95	80-120	2	20	
Gasoline Range Organics	10E0092		50	mg/kg wet	N/A	N/A	51.6	51.1	103	102	80-120	1	20	
Surrogate: 4-Bromofluorobenzene	10E0092			ug/kg wet					99	102	80-120			

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### CERTIFICATION SUMMARY

#### TestAmerica Watertown

Method	Matrix	Nelac	Wisconsin
SM 2540G	Solid/Soil	X	X
SW 6010B	Solid/Soil	X	X
SW 8021	Solid/Soil	X	X
WDNR GRO	Solid/Soil	X	X

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**DATA QUALIFIERS AND DEFINITIONS****ADDITIONAL COMMENTS**

Results are reported on a wet weight basis unless otherwise noted.



Cooler Receipt Log

WT E0013

Work Order(s): \_\_\_\_\_ Client Name/Project: Kap # of Coolers: \_\_\_\_\_

- How did samples arrive?  Fed-Ex  UPS  TestAmerica  Client  Dunham  Speedy  \_\_\_\_\_
- What was the condition of custody seals? .....  Intact  Broken  Not present

Date/time cooler was opened: 5/3/10 1345 By: Brad S / M Patel

Temperature °C 3 Received on ice? ...  Yes  No

Does this Project require RUSH turn around? .....  Yes  No

Are there any short hold time tests? .....  Yes  No

within 1 hr of or  past expiration of hold-time? ..... Provide details in space at bottom of form

48 hours or less	7 days
Coliform Bacteria..... 8/30 hours	Aqueous Organic Prep
Chlorine/Hex Cr..... 24 hours	TS
BOD	TDS
Nitrate ..... (DW is 14 days)	TSS
Nitrite	Sulfide
Orthophosphate)	Volatile Solids

Except for tests with hold times of 48 hrs or less, are any samples

within 2 days of or  past expiration of hold-time? .....  Yes  No Provide details in space at bottom of form

Which Ops Mgr, PM or Analyst was informed of short hold and when? ..... Who \_\_\_\_\_ When \_\_\_\_\_

Is the date and time of collection recorded? ..... Date  Yes  No Time  Yes  No

Were all sample containers listed on the COC received and intact? .....  Yes  No Provide details in space at bottom of form

Do sample IDs match the COC? .....  Yes  No Provide details in space at bottom of form

0. Are dissolved parameters field filtered or being filtered in the lab? .....  Field  Lab  NA

1. Are sample volumes adequate and preservatives correct for test requested?.. Vol.  Yes  No Pres.  Yes  No

2. Are VOC samples free of bubbles >6mm? .....  Yes  No  NA

3. How were VOC soils received?  Methanol  Sodium Bisulfate  Packed jar  Encore  Water\*  Other

within 48 hrs of sampling  past 48 hrs of sampling  Frozen  Not Frozen

4. Is an aqueous Trip Blank included?  Yes  No  NA Is a Methanol Trip Blank included?  Yes  No  NA

5. Are any samples on hold? .....  Yes  No Provide details in space at bottom of form

6. Are there samples to be subcontracted? .....  Yes  No

7. If any changes are made to this Work Order after Login, or if comments must be made regarding this cooler, explain them below:

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### 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 YD	0.00	0.00		323.70 TN