

GIS REGISTRY  
Cover Sheet

July, 2008  
(RR 5367)

JAN 6 2011

Source Property Information

BRRTS #: 03-41-001578  
ACTIVITY NAME: Former Doris Bartman Property  
PROPERTY ADDRESS: 8617 West Calumet Road  
MUNICIPALITY: Milwaukee  
PARCEL ID #: 1089998120

CLOSURE DATE: Jan 5, 2011  
FID #: 241416780  
DATCP #:  
COMM #: 53224341617

\*WTM COORDINATES:

X: 681079 Y: 299938

\* 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")

Soil Contamination > \*RCL or \*\*SSRCL (232)

- Contamination in ROW
- Off-Source Contamination

(note: for list of off-source properties see "Impacted Off-Source Property")

Land Use Controls:

Soil: maintain industrial zoning (220)

(note: soil contamination concentrations between residential 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 or economic development corporation)

Monitoring wells properly abandoned? (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 #:	03-41-001578	PARCEL ID #:	1089998120
ACTIVITY NAME:	Former Doris Bartman Property	WTM COORDINATES:	X: <input type="text"/> Y: <input type="text"/>

**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 #: 2.1                      Title: Project 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 #: 4.1                      Title: Soil Boring and Monitoring Wells 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 #: 6.1                      Title: Plume of Benzene in Soil**

BRRTS #: 03-41-001578

ACTIVITY NAME: Former Doris Bartman Property

**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 #: 5.2 Title: Geologic Section A-A'**

**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 #: 1 Title: Site Layout and Residual Groundwater Contamination**

**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 #: 2 Title: Groundwater Elevations - August 1997**

**Figure #: 3 Title: Groundwater Elevations - November 1997**

**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 #: 6.1 Title: Summary of Soil Quality Test Results**

**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 #: 1 Title: Summary of Groundwater Quality 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 #: 5.3 Title: Summary of Groundwater Elevation Data**

**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 #: 03-41-001578

ACTIVITY NAME: Former Doris Bartman Property

**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:**



January 5, 2011

Ms Virginia Presnick  
6743 North 91st Street  
Milwaukee WI 53224

Subject: Final Case Closure for the Former Doris Bartman Property 8617 West Calumet Road  
Milwaukee, WI

FID: 241416780  
BRRTS: 03-41-001578  
PECFA: 53224-3416-17-A & B

Dear Ms Presnick:

On April 8, 1999 the Wisconsin Department of Natural Resources ("the Department") reviewed the request for closure of the case described above. The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On July 14, 1999, Mr. John Proell (former property owner) was notified that the Department had granted conditional closure to this case.

On October 14, 2010, the Department received information or documentation indicating that you (the current property owner) have complied with the requirements for final closure. The GIS Registry packet for residual soil and groundwater contamination was received at this office with the appropriate fees (\$450) for filing of these documents for final closure.

Based on the correspondence and data provided, it appears that your case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

#### GIS Registry

The conditions of case closure set out below in this letter require that this site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards

This letter and information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at: <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If the property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line <http://dnr.wi.gov/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

#### Residual Soil Contamination

Residual soil contamination remains at soil boring locations B-3A, B-5A, B-1, B-4, B-6, B-8, SW-1, SW-4, SW-5, SW-8, and SW-9, as shown on the **attached map (Figure 1)** and in the information submitted to the Department of Natural Resources. If soil in the specific locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation

must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans.

#### Residual Groundwater Contamination

Groundwater impacted by 1,2-Dichloroethane contamination (MW-2A) greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property, as shown on the **attached map (Figure 6.1)**.

#### PECFA Reimbursement

Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to the Remediation and Redevelopment Program Assistant Vicky Stovall (414-263-8688) at the above address.

Sincerely,

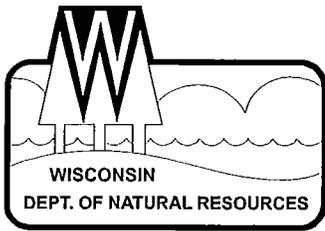


James A. Schmidt  
Southeast Region  
Remediation and Redevelopment Team Supervisor

Enclosures: Figure 6.1, Plume of Benzene in Soil Map  
Figure 1, Site Layout and Residual Groundwater Contamination Map

C: Robert Reineke, K. Singh & Associates  
WDNR SER Files

*Linda Mucialoti - Commerce*



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor  
George E. Meyer, Secretary  
Gloria L. McCutcheon, Regional Director

Southeast Regional Headquarters  
2300 N. Dr. ML King Drive, PO Box 12436  
Milwaukee, Wisconsin 53212-0436  
Telephone 414-263-8500  
FAX 414-263-8483  
TDD 414-263-8713

July 14, 1999

Mr. John Proell  
8718 W. Lancaster Ave.  
Milwaukee, WI 53225

FID 241416780  
BRRTS 0341001578

Subject: Closure request for the former Doris Bartman property located at 8617 W. Calamet Rd.,  
Milwaukee, WI

Dear Mr. Proell:

The Department has reviewed your request for closure, dated April 8, 1999, and any additional information pertaining to this case. The Department does not concur with your consultant that no further action should be required and that this case should be closed.

The Department is requesting a minimum of one additional round of volatile organic compounds (VOCs) in MW-2A because 1,2-Dichloroethane was detected above the NR 140, WI Adm. Code (WAC), enforcement standard (ES) in MW-2A. The additional round of sampling is necessary because one round of groundwater sampling for VOCs is not adequate to make a determination if the plume is stable or decreasing.

*If you have additional, relevant information which was not formerly provided to the Department, and which you feel would significantly impact the Department's closure decision, you may submit that information for our re-evaluation of case closure.*

For expedient processing, please send all future correspondence to the attention of Brenda Brown-RR Program Assistant at the above address. Please include that I, Michelle McGee, am the current reviewer of this case.

If you have any questions or comments please contact me at the above address or at (414)263-8644.

Sincerely,

Michelle M. McGee  
Hydrogeologist  
Remediation and Redevelopment Program

Cc: Mark Peters, K. Singh and Associates, Inc.  
SER case file



DOC.# 09882259

RECORDED 06/09/2010 08:39AM  
JOHN LA FAVE  
REGISTER OF DEEDS  
Milwaukee County, WI  
AMOUNT: 13.00  
FEE EXEMPT 77.25 #: 16  
TRANSFER FEE: 76.50

State Bar of Wisconsin Form 3 - 2003

QUIT CLAIM DEED

Document Number

Document Name

**THIS DEED**, made between Bobby M. Prasnick and Virginia A. Prasnick, husband and wife, and John Proell

("Grantor," whether one or more),

and Prasnick Revocable Living Trust dated June 11, 2008

("Grantee," whether one or more).

Grantor, quit claims to Grantee the following described real estate, together with the rents, profits, fixtures and other appurtenant interests, in Milwaukee County, State of Wisconsin ("Property")

(if more space is needed, please attach addendum):

That part of Government Lot Eleven (11) in the Northeast One-quarter (1/4) of the Southwest One-quarter (1/4) of Section Sixteen (16), in Township Eight (8) North, Range Twenty-one (21) East, in the City of Milwaukee, County of Milwaukee and State of Wisconsin, which is bounded and described as follows: Commencing at the Northeast corner of said 1/4 Section; thence South 89° 58' 20" West along the North line of said Section 1177.10 feet to a point, said point being the point of beginning of the land to be described; thence South 02° 14' 09" West parallel with the West line of the Northeast 1/4 of the Southwest 1/4 of said Section 480.00 feet more or less to a point; thence South 43° 13' 23" East 254.33 feet to a point which point is 665.57 feet South 02° 15' 21" West from the North line of said 1/4 section; thence North 02° 15' 21" East 465.57 feet to a point; thence South 89° 58' 20" West and parallel with the North line of said...

Recording Area

Name and Return Address

Bottoni & Welcenbach Law, LLC  
Attn: James Bottoni  
5625 W. Wells Street  
Milwaukee, WI 53213

108-9998-120-6

Parcel Identification Number (PIN)

This is not homestead property.  
(is) (is not)

Dated

[Signature]  
\* Bobby M. Prasnick

(SEAL) [Signature] (SEAL)  
\* Virginia A. Prasnick

[Signature]  
\* John Proell

(SEAL) \_\_\_\_\_ (SEAL)  
\* \_\_\_\_\_

AUTHENTICATION

ACKNOWLEDGMENT

Signature(s) Bobby M. Prasnick and Virginia A. Prasnick & John Proell  
authenticated on 3/20/10

STATE OF WISCONSIN )  
 ) ss.  
 \_\_\_\_\_ COUNTY )

Personally came before me on \_\_\_\_\_,  
the above-named \_\_\_\_\_

\* Atty. James A. Bottoni SBW 1036603  
TITLE MEMBER STATE BAR OF WISCONSIN

to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

(If not, \_\_\_\_\_  
authorized by Wis. Stat. § 706.06)

\* \_\_\_\_\_  
Notary Public, State of Wisconsin  
My Commission (is permanent) (expires: \_\_\_\_\_)

THIS INSTRUMENT DRAFTED BY:

Atty. James Bottoni  
Bottoni & Welcenbach Law, LLC

(Signatures may be authenticated or acknowledged. Both are not necessary.)  
NOTE: THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

QUIT CLAIM DEED STATE BAR OF WISCONSIN FORM No. 3-2003

\*Type name below signatures.

Full Legal Description of 8617 W. Calumet Road, Milwaukee, Wisconsin (for attachment to Quit Claim Deed)

That part of Government Lot Eleven (11) in the Northeast One-quarter (1/4) of the Southwest One-quarter (1/4) of Section Sixteen (16), in Township Eight (8) North, Range Twenty-one (21) East, in the City of Milwaukee, County of Milwaukee and State of Wisconsin, which is bounded and described as follows: Commencing at the Northeast corner of said 1/4 Section; thence South 89° 58' 20" West along the North line of said Section 1177.10 feet to a point, said point being the point of beginning of the Land to be described; thence South 02° 14' 09" West parallel with the West line of the Northeast 1/4 of the Southwest 1/4 of said Section 480.00 feet more or less to a point; thence South 43° 13' 23" East 254.33 feet to a point which point is 665.57 feet South 02° 15' 21" West from the North line of said 1/4 section; thence North 02° 15' 21" East 465.57 feet to a point; thence South 89° 58' 20" West and parallel with the North line of said 1/4 Section 110.00 feet to a point; thence North 02° 15' 21" East 200 feet to a point in the North line of said 1/4 Section; thence South 89° 58' 20" West along the North line of said 1/4 Section 71.77 feet to the point of beginning.

EXCEPTING the North 33 feet for street purposes.

Tax Key No: 108-9998-120-6

Address: 8617 W. Calumet Road

## Certification of Property Description

Address: 8617 W. Calumet Road

Tax Key No: 108-9998-120-6

That part of Government Lot Eleven (11) in the Northeast One-quarter (1/4) of the Southwest One quarter (1/4) of Section Sixteen (16), in Township Eight (5) North, Range Twenty-one (21) East, in the City of Milwaukee, County of Milwaukee and State of Wisconsin, which is bounded and described as follows: Commencing at the Northeast corner of said 1/4 Section; thence South 59° 58' 20" West along the North line of said Section 1177.10 feet to a point, said point being the point of beginning of the Land to be described; thence South 02° 14' 09" West parallel with the West line of the Northeast 1/4 of the Southwest 1/4 of said Section 480.00 feet more or less to a point; thence South 43° 13' 23" East 254.33 feet to a point which point is 665.57 feet South 02° 15' 21" West from the North line of said 1/4 section; thence North 02° 15' 21" East 465.57 feet to a point; thence South 89° 58' 20" West and parallel with the North line of said 1/4 Section 110.00 feet to a point; thence North 02° 15' 21" East 200 feet to a point in the North line of said 1/4 Section; thence South 89° 58' 20" West along the North line of said 1/4 Section 71.77 feet to the point of beginning.

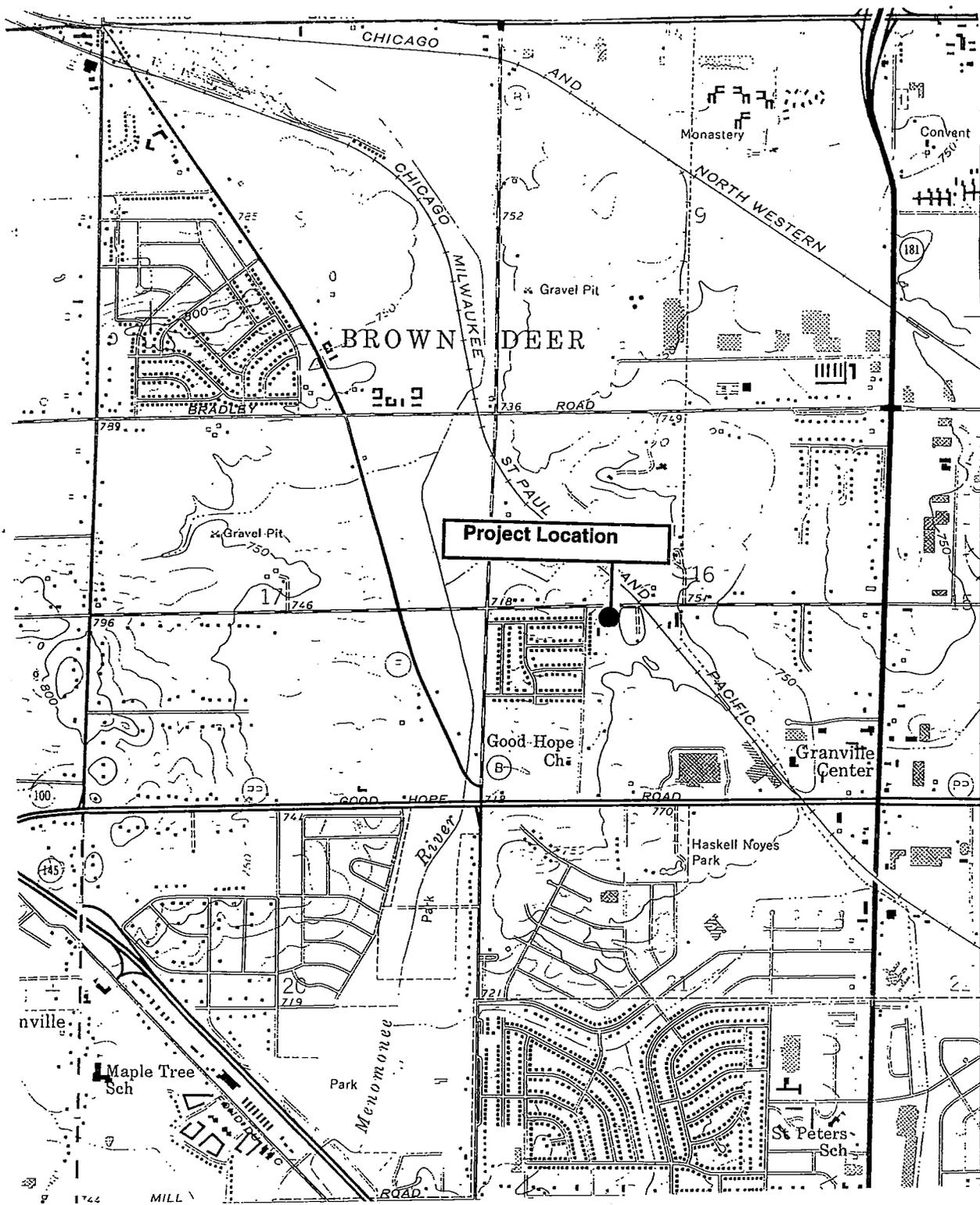
EXCEPTING the North 33 feet for street purposes.

I Virginia Praemt certify that the property descriptions provided above and on the attached Quit Claim Deed are complete and accurate. The property description correctly describes the affected parcels currently known as the Former Doris Bartman Property (Parcel Identification Number: 108-9998-120-6).

Signature Virginia Praemt

Title Owner

Date October 8, 2010



Scale: 1 inch = 2,000 feet

Figure 2.1. Project Location Map

IV-2

LEGEND	
□	Former Area of Excavation
●	Excavation
⊙	Sampling Point
⊕	Monitoring Well
⊕	Soil Boring

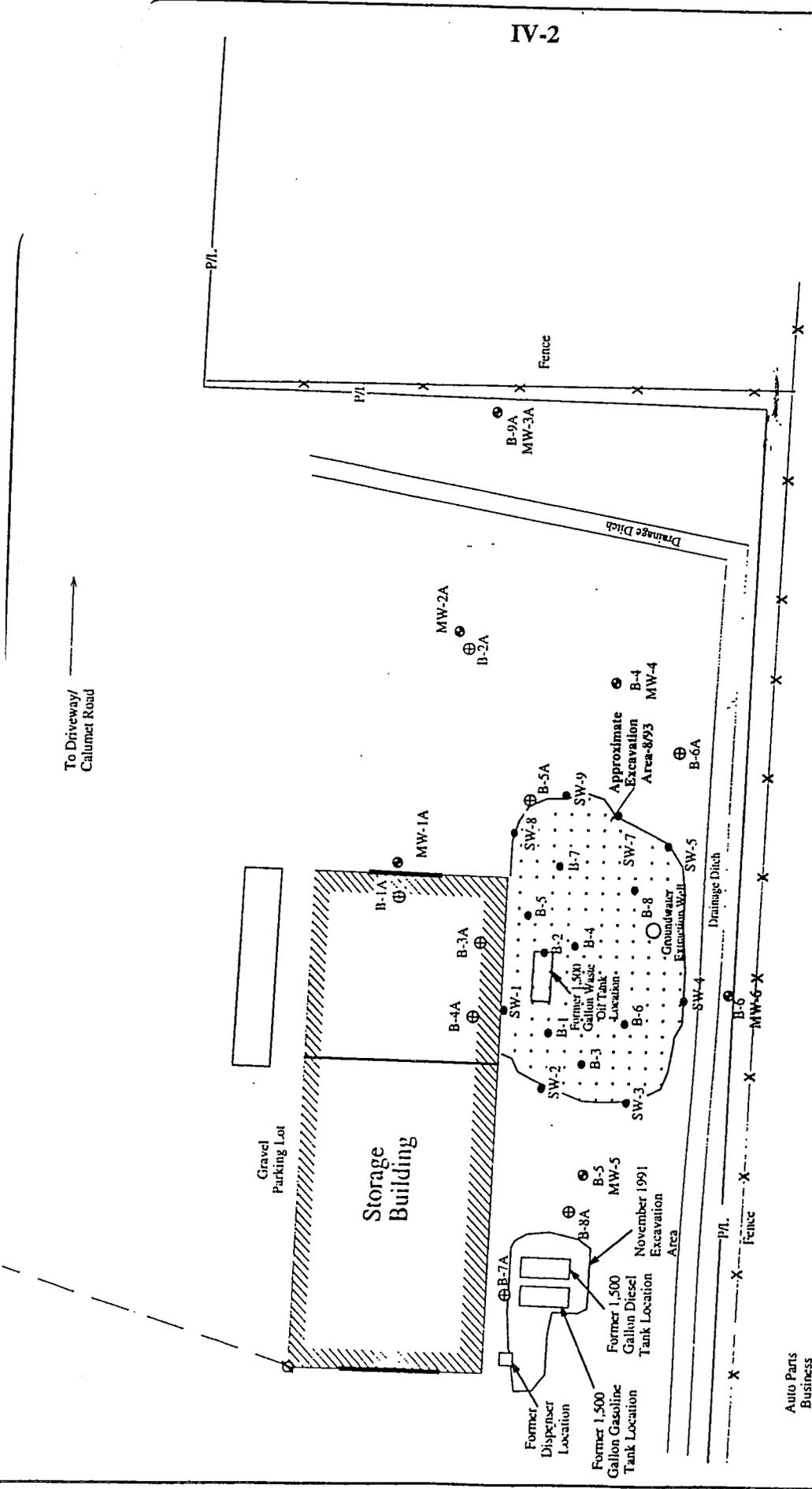


Figure 4.1. Soil Boring and Monitoring Well Locations	
Date	May 6, 1996
Drawn by	M.J.P.
Project no.	4154
Checked by	P.N.S.
Date	

SCALE  
0' 15' 30'

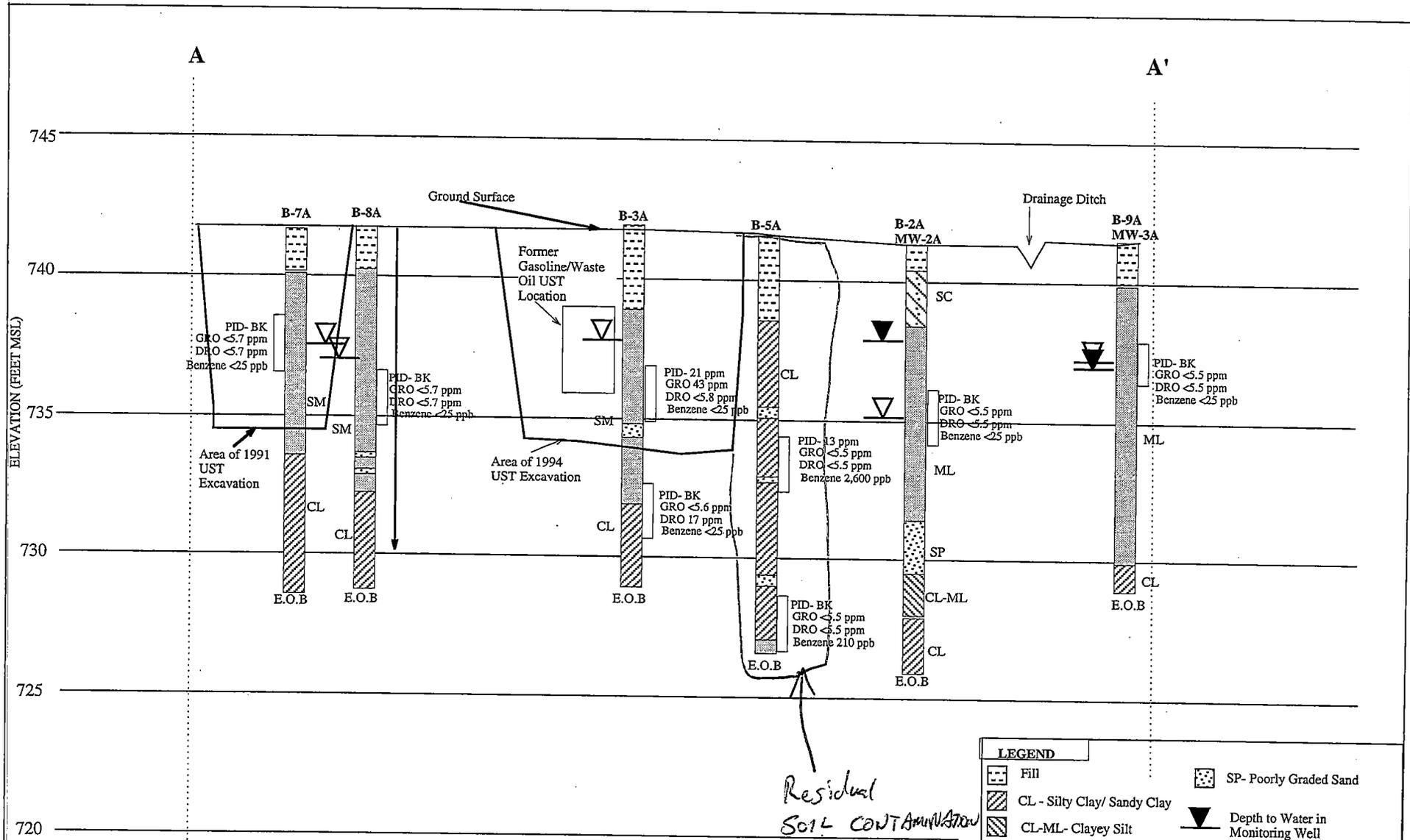
Engineer  
**K. SINGH & ASSOCIATES, INC.**  
Engineers & Environmental Management Consultants  
1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Checked  
**MR. JOHN PROELL**

PROJECT LOCATION  
Former Bartman Property  
8617 W. Calumet Road  
Milwaukee, WI 53224

Auto Parts  
Business





Note: Vertical Exaggeration is 6:1.  
 BK= Background PID Reading

Soil Boring B-3A is within the building, to the west of the line of cross section. The Excavation details are on the line of cross-section.

LEGEND			
	Fill		SP- Poorly Graded Sand
	CL - Silty Clay/ Sandy Clay		Depth to Water in Monitoring Well
	CL-ML- Clayey Silt		Depth to Water During Soil Boring Installation
	ML - Sandy Silt		
	SM- Silty Sand		
	SC- Clayey Sand		

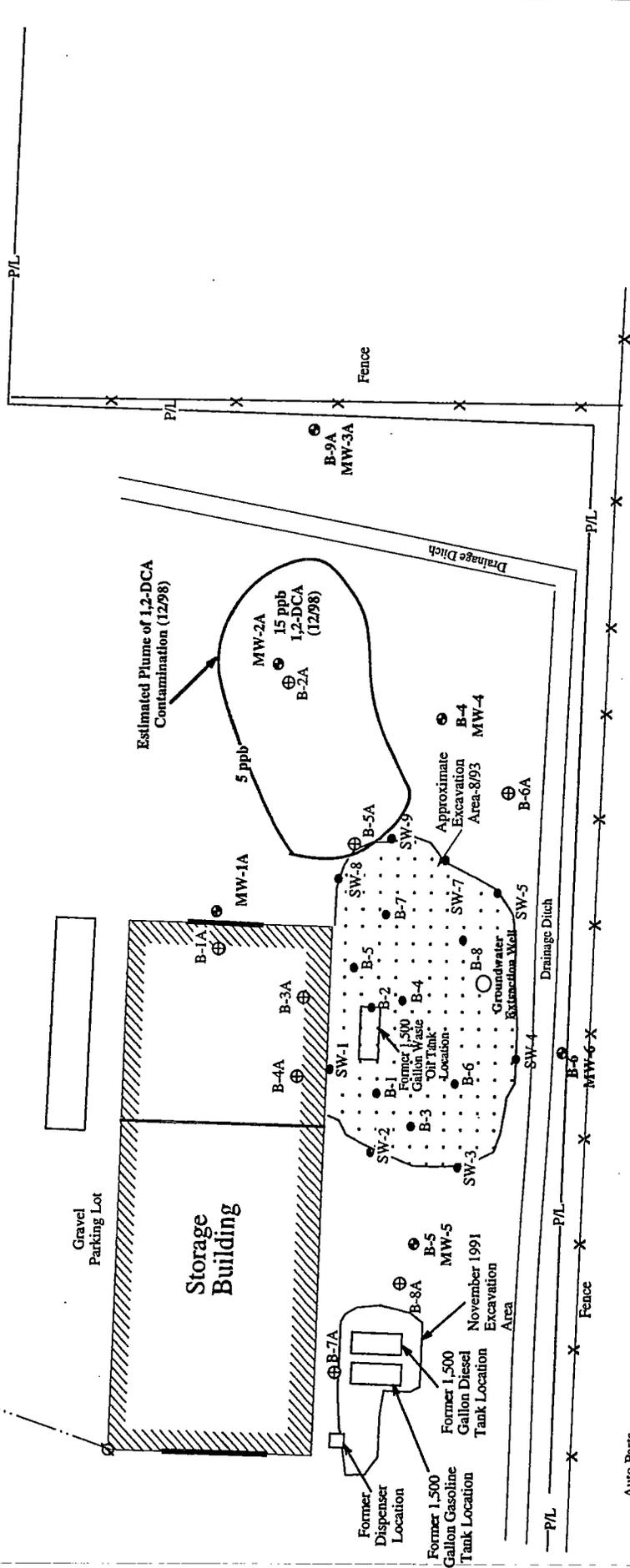
Owner  
**Mr. John Proell**  
 PROJECT LOCATION  
 Former Bartman Property  
 8617 W. Calumet Road  
 Milwaukee, WI 53224

Engineer  
**K. SINGH & ASSOCIATES, INC.,**  
 Engineers & Environmental Management Consultants  
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Figure 5.2 - Geologic Section A-A'			
Date	Drawn by	Project no.	Date
January 13, 1997	M.J.P.	4154	
SCALE	Checked by		
	P.N.S		



To Driveway/  
Calumet Road



**LEGEND**

- Former Area of Excavation
- Excavation
- Sampling Point
- Monitoring Well
- Soil Boring

**Figure 1. Site Layout and Residual Groundwater Contamination**

Date	Drawn by	Project no.
May 6, 1996	M.J.P.	4154
SCALE	Checked by	Date
0' 15' 30'	P.N.S.	

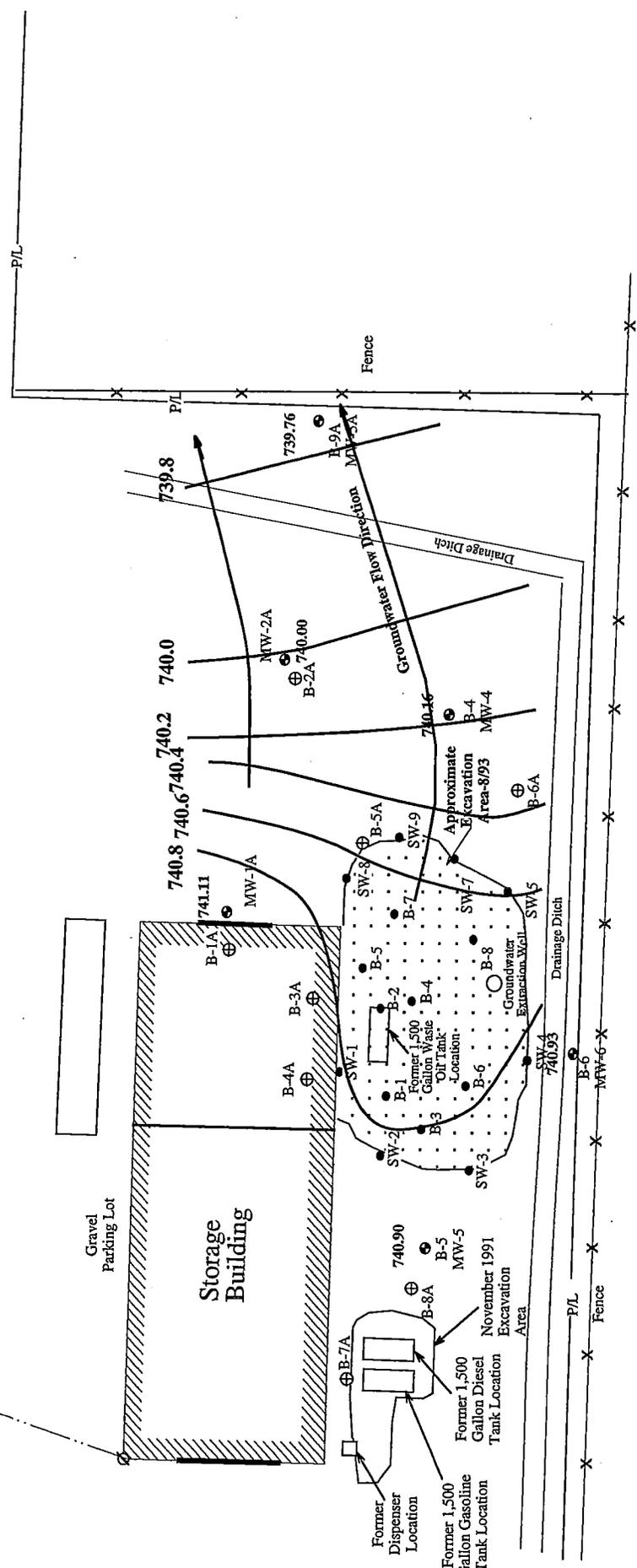
Engineer  
**K. SINGH & ASSOCIATES, INC.,**  
 Engineers & Environmental Management Consultants  
 1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

OWNER  
**MR. JOHN PROELL**  
 PROJECT LOCATION  
 Former Bartman Property  
 8617 W. Calumet Road  
 Milwaukee, WI 53224

Auto Parts  
Business



To Driveway/  
Calumet Road



LEGEND	
	Groundwater Elevation
	Contour Line
	Former Area of Excavation
	Excavation
	Sampling Point
	Monitoring Well
	Soil Boring

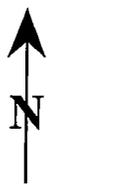
Figure 2. Groundwater Elevations- August 1997	
Date	Project no.
May 6, 1996	4154
Drawn by	Date
M.J.P.	4/15/97
Checked by	SCALE
P.N.S.	0' 15' 30'

Engineer  
**K. SINGH & ASSOCIATES, INC.**,  
 Engineers & Environmental Management Consultants  
 1135 Legton Drive, Elm Grove, Wisconsin 53122, (414) 821-1171.

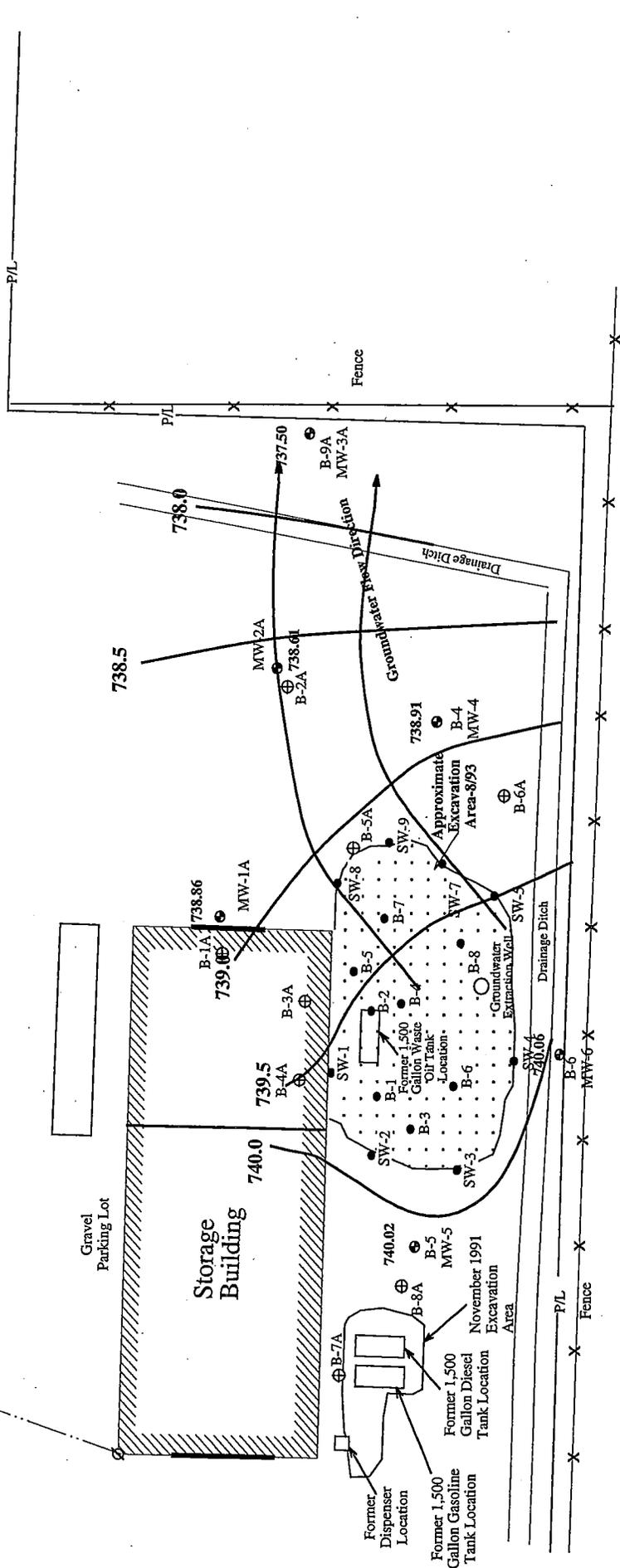
Owner  
**MR. JOHN PROELL**  
 PROJECT LOCATION  
 Former Bartman Property  
 8617 W. Calumet Road  
 Milwaukee, WI 53224

Note: Groundwater Elevations are in Feet, MSL.  
 Based on data collected on 8/26/97.

Auto Parts  
 Business



To Driveway/  
Calumet Road



**LEGEND**

- Groundwater Elevation Contour Line
- Former Area of Excavation
- Excavation
- Sampling Point
- Monitoring Well
- Soil Boring

**Figure 3. Groundwater Elevations - November 1997**

Date	May 6, 1996	Project no.	4154
Drawn by	M.J.P.	Checked by	P.N.S.
SCALE		0' 15' 30'	

Engineer  
**K. SINGH & ASSOCIATES, INC.**,  
Engineers & Environmental Management Consultants  
1135 Legion Drive, Elm Grove, Wisconsin 53122, (414) 821-1171

Owner  
**MR. JOHN PROELL**  
PROJECT LOCATION  
Former Bartman Property  
8617 W. Calumet Road  
Milwaukee, WI 53224

Note: Groundwater Elevations are in Feet, MSL.  
Based on data collected on 8/26/97.

Auto Parts  
Business

**Table 6.1**  
**Summary of Soil Quality Test Results**

Sample ID	Sample Depth	PID Reading	Benzene	Ethyl Benzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	GRO	DRO	Lead
	ft	Inst. Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppm
<b>Soil Borings for Additional Investigation/August-December 1996</b>												
B-1A	3-5	BK	<25	<25	<25	<25	<25	<25	<25	<5.7	11	7.9
B-2A	5-7	BK	<25	<25	<25	<25	<25	<25	<25	<5.5	<5.5	6.8
B-3A	5-7	21	<25	1,500	<25	2,600	4,000	1,000	<25	43	<5.8	6.3
B-4A	9-11	BK	<25	<25	<25	<25	<25	<25	<25	<5.6	17	NT
	3-5	11	<25	43	<25	<25	32	<25	<25	<5.7	<5.7	5.8
B-5A	5-7	BK	<25	36	<25	<25	120	87	<25	<6.0	9.8	NT
	7-9	13	2,600	820	47	210	37	42	<25	<5.5	<5.5	6.9
B-6A	13-15	BK	210	38	<25	120	<25	<25	<25	<5.5	<5.5	NT
	5-7	BK	<25	<25	<25	<25	<25	<25	<25	<5.6	<5.6	7.6
B-7A	3-5	BK	<25	<25	<25	<25	<25	<25	<25	<5.7	<5.7	19
B-8A	5-7	BK	<25	<25	<25	<25	<25	<25	<25	<5.6	<5.8	6.5
B-9A	3.5-5	BK	<25	<25	<25	<25	<25	<25	<25	<5.6	<5.6	7.7
<b>Soil Borings-November 1993 (4)</b>												
B-4	8-10	1.4	<50	<50	<50	<50	<50	<50	<50	<5.0	NT	7.6
B-5	6-8	2.2	<50	<50	<50	<50	<50	<50	<50	<5.0	NT	6.6
B-6	4-6	25.3	<50	<50	79	<50	<50	<50	<50	<5.0	NT	3.9
<b>Excavation- August 1993 (4)</b>												
B-1	7.5	ND	320	<50	<50	<50	<50	<50	<50	<5.0	NT	10
B-4	6.0	ND	180	<50	<50	<50	<50	<50	<50	<5.0	NT	9.9
B-6	7.5	ND	2,200	88	3,100	310	<50	<50	<50	6.5	NT	8.8
B-7	8.0	ND	<50	<50	<50	<50	<50	<50	<50	<5.0	NT	9.5
B-8	9.0	ND	1,400	<50	64	<50	62	<50	<50	<5.0	NT	9.3
SW-1	4.0	>9999	11,000	17,000	1,700	110,000	88,000	28,000	6,300	1,400	NT	10
SW-2	4.0	ND	<50	<50	<50	<50	<50	<50	<50	<5.0	NT	6.1
SW-3	5.0	ND	<50	210	<50	<50	<50	<50	60	7.7	NT	6.8
SW-4	5.0	>9999	2,000	7,600	5,200	31,000	26,000	8,100	1,100	360	NT	10
SW-5	6.0	733	410	960	1,000	4,200	2,200	1,200	<50	17	NT	12
SW-7	6.0	ND	<50	<50	<50	<50	<50	<50	<50	<5.0	NT	9
SW-8	6.0	ND	2,100	<50	<50	<50	<50	<50	<50	<5.0	NT	8.7
SW-9	6.0	>9999	370	6,100	3,400	12,000	25,000	7,600	500	270	NT	9.5
NR 720 Standard			5.5	2,900	1,500	4,100	---	---	---	100	100	---

Note: "PID"= Photoionization Detector  
TMB = Trimethyl Benzene  
MTBE = Methyl Tert-Butyl Ether

**Table 1**  
**Summary of Groundwater Quality Test Results**  
 Page 1

Location	Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene	1,2-Dichloroethane	DRO	GRO	Dissolved Lead
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb
MW-4	11/11/93*	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	<0.050	<5.0
	8/1/96	<2	<2	<2	<4	<2	<2	<2	NT	NT	<0.1	<0.1	NT
	12/26/96	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<5.0	NT	NT	NT	<0.050	NT
	8/26/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	11/25/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	6/1/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	9/11/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	<0.34	<0.35	<0.98	<0.35	<0.64	<0.31	<0.88	<0.36	NT	<0.1	NT
MW-5	11/11/93*	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	NT	<0.050	<5.0
	8/1/96	<2	<2	<2	<4	<2	<2	<2	NT	NT	0.16	<0.1	NT
	12/26/96	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	5.4	NT	NT	NT	<0.050	NT
	8/26/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	11/25/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	6/1/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	9/11/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	<0.34	<0.35	<0.98	<0.35	<0.64	<0.31	<0.88	<0.36	NT	<0.1	NT
MW-6	11/11/93*	NA**	3.0	1.0	5.4	4.8	2.7	4	<1.0	<1.0	NT	NA**	NA**
	8/1/96	<2	<2	<2	<4	<2	<2	<2	NT	NT	0.23	0.13	NT
	12/26/96	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<5.0	NT	NT	NT	<0.050	NT
	8/26/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	4.7	NT	NT	NT	<0.050	NT
	11/25/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	4.4	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	3.7	NT	NT	NT	<0.050	NT
	6/1/98	<0.50	<0.50	0.6	<0.50	<1.0	<1.0	1.2	NT	NT	NT	<0.050	NT
	9/11/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	7.5	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	<0.34	<0.35	<0.98	<0.35	<0.64	<0.31	<0.88	<0.36	NT	<0.1	NT
MW-1A	9/6/96	2	<1	<1	<2	<1	<1	<1	<1	<1	<0.1	<0.1	NT
	12/26/96	0.82	<0.50	<0.50	<0.50	<1.0	<1.0	<5.0	NT	NT	NT	<0.050	NT
	8/26/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	0.052	NT
	11/25/97	<0.50	1.0	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	1.6	1.4	2.7	1.8	1.3	<0.20	NT	NT	NT	0.22	NT
	6/1/98	<0.50	1.6	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	9/11/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	0.6	<0.35	<0.98	<0.35	<0.64	1.6	<0.88	<0.36	NT	<0.1	NT
MW-2A	9/6/96	35	<1	<1	<2	<1	<1	<1	<1	20	<0.1	<0.1	NT
	12/26/96	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<5.0	NT	NT	NT	<0.050	NT
	8/26/97	71	<0.50	<0.50	<0.50	<1.0	<1.0	88	NT	NT	NT	<0.050	NT

**Table 1**  
Summary of Groundwater Quality Test Results  
Page 2

Location	Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Naphthalene	1,2-Dichloroethane	DRO	GRO	Dissolved Lead
		ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppm	ppb
	11/25/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	6/1/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	9/11/98	2.2	<0.50	0.6	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	<0.34	<0.35	<0.98	<0.35	<0.64	0.94	<0.88	15	NT	<0.1	NT
MW-3A	12/26/96	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<5.0	<8.0	<1.0	NT	<0.050	<1.5
	8/26/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	11/25/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	6/1/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	9/11/98	<0.50	<0.50	1.3	0.76	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	<0.34	<0.35	<0.98	<0.35	<0.64	<0.31	<0.88	<0.36	NT	<0.1	NT
Ext.	11/11/93	400	170	100	1,100	580	180	23	NT		<0.1	4.3	NT
Well	9/6/96	4	4	<2	<4	<2	<2	3	NT	NT	<0.1	<0.1	NT
	12/26/96	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<5.0	NT	NT	NT	<0.050	NT
	8/26/97	2.7	4.8	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	11/25/97	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	2/25/98	<0.50	<0.50	<0.50	0.66	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	6/1/98	<0.50	<0.50	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	9/11/98	2.3	3.9	<0.50	<0.50	<1.0	<1.0	<0.20	NT	NT	NT	<0.050	NT
	12/3/98	<0.32	<0.34	<0.35	<0.98	<0.35	<0.64	<0.31	<0.88	<0.36	NT	<0.1	NT
ES		5	1,360	343	620	---	---	60	40		---	---	50
PAL		0.5	272	68.6	124	---	---	12	8		---	---	5

Note: TMB= Trimethyl Benzene

MTBE= Methyl tert-butyl ether

\* Data from 11/93 collected by previous consultant \*\* NA= Data not available-missing from reviewed copy of source report

**Table 5.3**  
Summary of Groundwater Elevation Data

Monitoring Well Designation	PVC Elev.	Depth to Water 9/6/96	GW Elev. 9/6/96	Depth to Water 9/12/96	GW Elev. 9/12/96	Depth to Water 12/26/96	GW Elev. 12/26/96
MW-4	744.36	6.72	737.64	6.67	737.69	5.82	738.54
MW-5	744.79	5.61	739.18	5.04	739.75	5.34	739.45
MW-6	744.25	4.05	740.20	4.12	740.13	3.98	740.27
MW-1A	741.11	2.01	739.10	1.58	739.53	0.84	740.27
MW-2A	740.74	2.50	738.24	2.43	738.31	2.65	738.09
MW-3A	745.47	*	*	*	*	7.61	737.86

Note: \* Source: "Report of Soil Remediation and Additional Subsurface Investigation", Prepared by Sigma Environmental Services, Inc., November 1993.

\*\* MW-1A and MW-2A were installed in August of 1996.

**Table 5.4**  
Estimates of Hydraulic Conductivity

Monitoring Well Designation	Hydraulic Conductivity (cm/sec)
MW-1A	3.1 E-6
MW-2A	2.5 E-5
MW-3A	----
MW-4	5.0 E-6
MW-5	5.3 E-6
MW-6	----

Note: Hydraulic Conductivities are estimated using Hvorslev's Method.

Due to the fine-grained nature of soils, Hazen's method could not be used for hydraulic conductivity estimates.