

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

CLOSURE DATE: 01/29/2001

BRRTS #:

03-60-001000

ACTIVITY NAME:

PETRO CENTER #1 (SHEBOYGAN OIL)

FID #:

460075880

PROPERTY ADDRESS:

1208 Union Ave

DATCP #:

MUNICIPALITY:

Sheboygan

PECFA#:

53081594108A

PARCEL ID #:

59281401080

***WTM COORDINATES:**

WTM COORDINATES REPRESENT:

X:

703569

Y:

364674

Approximate Center Of Contaminant Source

** Coordinates are in
WTM83, NAD83 (1991)*

Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

Groundwater Contamination > ES (236)

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

Contamination in ROW

Contamination in ROW

Off-Source Contamination

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")*

*(note: for list of off-source properties
see "Impacted Off-Source Property Information,
Form 4400-246")*

Site Specific Obligations:

Soil: maintain industrial zoning (220)

Cover or Barrier (222)

*(note: soil contamination concentrations
between non-industrial and industrial levels)*

Direct Contact

Soil to GW Pathway

Structural Impediment (224)

Vapor Mitigation (226)

Site Specific Condition (228)

Maintain Liability Exemption (230)

*(note: local government unit or economic
development corporation was directed to
take a response action)*

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 #:	03-60-001000 (No Dashes)	PARCEL ID #:	59281401080		
ACTIVITY NAME:	PETRO CENTER #1 (SHEBOYGAN OIL)	WTM COORDINATES: X:	703569	Y:	364674

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: 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: Geoprobe BTEX Headspace Distribution Map**
 - 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 #: A **Title: Soil TPH/GRO Distribution Map & Approximate Extent of Soil Impact Exceeding RCLs**

BRRTS #: 03-60-001000

ACTIVITY NAME: PETRO CENTER #1 (SHEBOYGAN OIL)

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 **Title: Geologic Cross-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 #: 2 **Title: Groundwater Analytical Jul -98**

- 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 #: 3 **Title: Groundwater Flow Map**

Figure #: **Title:**

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

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

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

Table #: 1 **Title: Summary of Field and Laboratory Data,**

- 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 Analytical 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 #: **Title:**

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 #: 03-60-001000

ACTIVITY NAME: PETRO CENTER #1 (SHEBOYGAN OIL)

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.

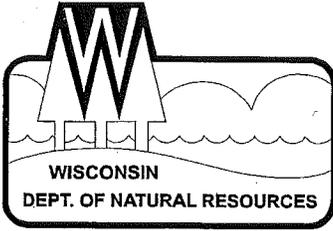
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer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

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:**

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:



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Southeast Region Annex
4041 North Richards Street
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-229-0800
FAX 414-229-0810

January 29, 2001

Mr. Richard Guske
Sheboygan Oil Company, Inc.
3801 Superior Avenue
Sheboygan, WI 53081

Subject: Closure of the Sheboygan Oil Company Leaking Underground Storage Tank site at 1208 Union Avenue, Sheboygan, WI **WDNR FID#460075880 BRRTS#0360001000**

Dear Mr. Guske:

The Wisconsin Department of Natural Resources (the Department) has received copies of the notification to the City of Sheboygan and the recorded deed restriction for the above-referenced property. The conditions of site closure have now been met and the site has been entered as closed on the Department's tracking system.

If you have any questions or comments, please contact me at (414) 229-0874. The Department appreciates the efforts taken to restore the environment at the site.

Sincerely,

Nancy D. Ryan
Hydrogeologist

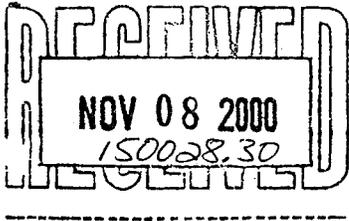
Cc: SER site file
Chris Macek, GZA GeoEnvironmental, Inc.

Document Number

**GROUNDWATER USE AND
DEED RESTRICTION**

Declaration of Restrictions

In Re: Lots fifteen (15), sixteen (16), and seventeen (17) in block five (5) of Assessment Subdivision Number eighteen (18) of the City of Sheboygan, According to the recorded plat thereof.



STATE OF WISCONSIN)
) ss
COUNTY OF SHEBOYGAN)

WHEREAS, Sheboygan Oil Company, Inc. and Richard R. Guske and Naudine C. Guske, His Wife are the owners of the above-described property.

WHEREAS, one or more petroleum discharges occurred onto this property. Benzene contaminated groundwater above ch. NR140, Wis. Adm. Code, enforcement standards existed on this property at the following locations in July 1998:

- Monitoring Well MW101 benzene @ 368 micrograms per liter (ug/l)
- Monitoring Well MW-103 benzene @ 74.7 ug/l

Soil contamination above ch. NR 720 Wis. Adm. Code, residual contaminant levels was present at the following UST excavation locations in August 1990:

- UST Excavation Sample S102 (5 feet) - TPH @ 1,100 ppm, BETX @ 13.1 parts per million (ppm)
- UST Excavation Sample S113 (8 feet) - TPH @ 140 ppm, BETX @ 5.2 ppm
- UST Excavation Sample S116 (3 feet) - TPH @ 30 ppm, BETX @ 10.6 ppm
- UST Excavation Sample S123 (5 to 6 feet) - TPH @ 3,100 ppm, BETX @ 156 ppm

Soil contamination above ch. NR 720 Wis. Adm. Code, residual contaminant levels was present at the following soil boring locations in September 1990:

- Soil Boring B1 (4 to 6 feet) - TPH @ 2,300 ppm
- Soil Boring B5 (5 to 6 feet) - TPH @ 14,000 ppm

A site map showing excavation sample, soil boring and monitoring well locations is depicted on Attachment A which is hereby made a part of this restriction.

Recording Area

Name and Return Address

Sheboygan Oil Company, Inc.
and Richard R. Guske and Naudine C. Guske
3801 Superior Avenue
Sheboygan, Wisconsin 53081

401080
Parcel Identification Number (PIN)

WHEREAS, it is the desire and intention of the property owners to impose on the property restrictions which will make it unnecessary to conduct additional soil or groundwater remediation activities on the property at the present time.

WHEREAS, natural attenuation was approved by the Department of Natural Resources to remediate groundwater contamination exceeding ch. NR 140 Wis. Adm. Code enforcement standards within the boundaries of this property.

WHEREAS, construction of wells where the water quality exceeds the drinking water standards in ch. NR 809 Wis. Adm. Code is restricted by ch. NR 811 Wis. Adm. Code, and ch. NR 812 Wis. Adm. Code. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply.

NOW THEREFORE, the owners hereby declare 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 water supply well on this property is required to contact the Department of Natural Resources' Bureau of Drinking Water and Groundwater, to determine what specific requirements are applicable prior to constructing or reconstructing a well on this property. No water supply well may be constructed or reconstructed on this property unless applicable requirements are met.

If construction is proposed on this property that will require dewatering, or if groundwater is to be otherwise extracted from this property while the groundwater use restriction is in effect, the groundwater shall be sampled and analyzed for the contaminants that were previously detected on the property, and any extracted groundwater shall be managed in compliance with applicable statutes and rules.

If contaminated soil that remains on the property is excavated in the future, it will have to be sampled and analyzed and the treatment or disposal of the soil as a solid or hazardous waste may be necessary. The following activities are prohibited on that portion of the property described above where a cap or cover has been placed unless prior written approval has been obtained from the Wisconsin Department of Natural Resources or its successor or assign: 1) Excavating or grading of the land surface; 2) Filling on the capped area; 3) Plowing for agricultural cultivation; and 4) Construction or installation of a building or other structure with a foundation that would sit on or be placed within the cap or cover. In addition, the existing pavement is to be maintained to prevent human exposure to the contaminated soil and infiltration of rainwater in the areas shown on Attachment A as "Approximate Extent of Soil Impact Exceeding RCLs." Pavement maintenance will include annual visual inspections and sealing of cracks, as necessary, to prevent exposure of soil at ground surface until such time it is determined through additional soil sampling and analytical testing that the soil no longer contains contaminants at concentrations greater than the RCLs or accepted standards.

This restriction is hereby declared to be a covenant running with the land and shall be fully binding upon all persons acquiring the above-described property whether by descent, devise, purchase, or otherwise. This restriction benefits and is enforceable by the Wisconsin Department of Natural Resources, its successors and assigns. The Department, its successors or assigns, may initiate proceedings at law or in equity against any person or persons who violate or are proposing to violate this covenant, to prevent the proposed violation or to recover damages for such violation.

Any person who is or becomes owner of the property described above may request that the Wisconsin Department of Natural Resources or its successor issue a determination that the restrictions set forth in this covenant are no longer required. Upon receipt of such a request, the Wisconsin Department of Natural Resources shall determine whether or not the restrictions contained herein can be extinguished. 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 groundwater use restriction is no longer binding.

By signing this document, PETER D. GUSKE acknowledges that [he/she] is duly authorized to sign this document on behalf of Sheboygan Oil Company, Inc. and Richard R. Guske or Naudine C. Guske his wife

IN WITNESS WHEREOF, the owners of the property have executed this Declaration of Restrictions, this 7th day of NOVEMBER, 2000.

Signature: Peter D. Guske

Printed Name: PETER D. GUSKE

Title: VICE PRESIDENT

Subscribed and sworn to before me this 7th day of November, 2000.

Mildred B...

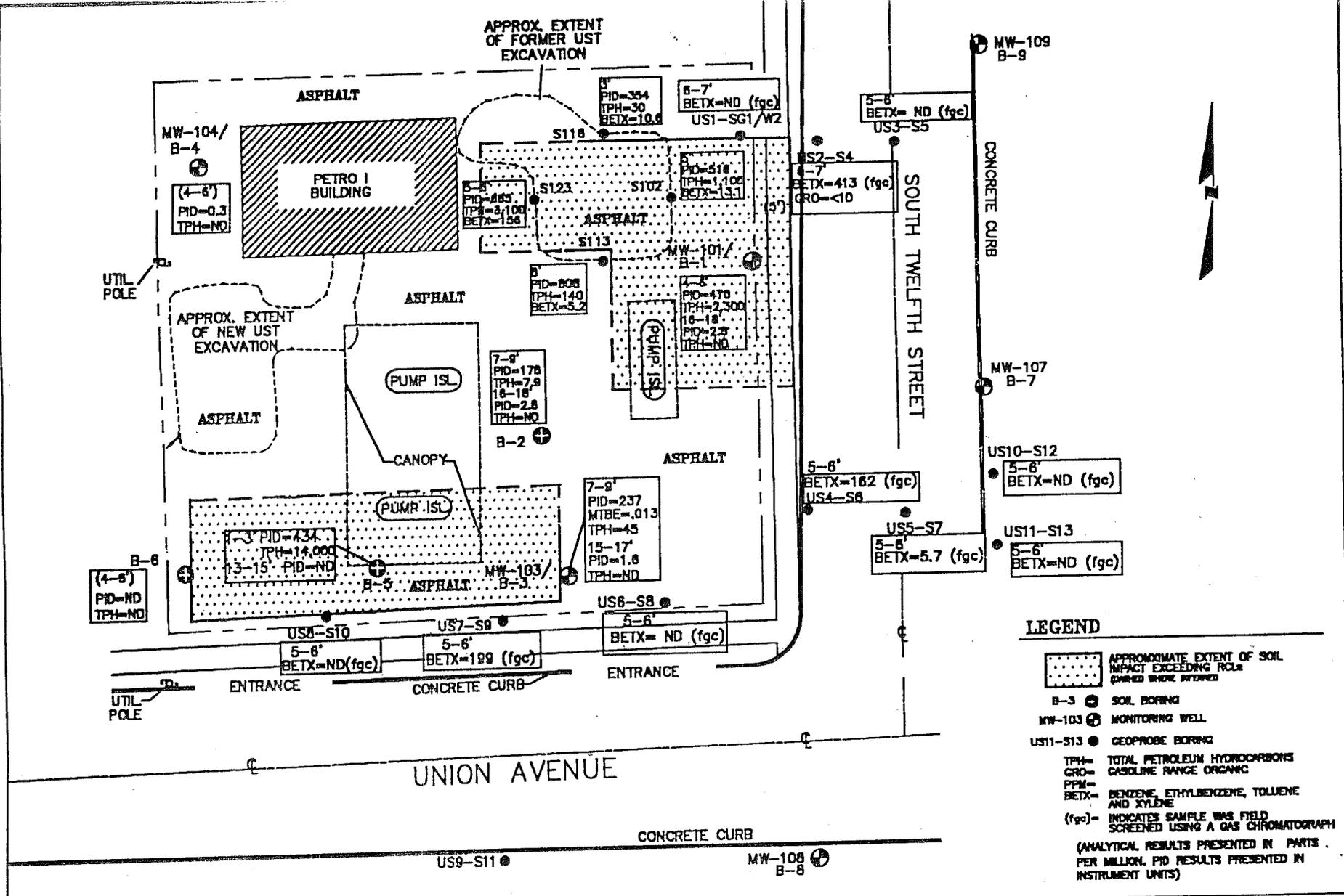
Notary Public, State of Wisconsin

My Commission 3-30-2003

GZA GeoEnvironmental, Inc. drafted this document based on deed restriction guidance language provided by the Wisconsin Department of Natural Resources.



ATTACHMENT A



LEGEND

APPROXIMATE EXTENT OF SOIL IMPACT EXCEEDING RCL (SHADING WHERE APPLICABLE)

B-3 ● SOIL BORING

MW-103 ● MONITORING WELL

US11-S13 ● GEOPROBE BORING

TPH= TOTAL PETROLEUM HYDROCARBONS
 GRO= GASOLINE RANGE ORGANIC

PPM= BENZENE, ETHYLBENZENE, TOLUENE AND XYLENE

(fgc)= INDICATES SAMPLE WAS FIELD SCREENED USING A GAS CHROMATOGRAPH

(ANALYTICAL RESULTS PRESENTED IN PARTS PER MILLION. PID RESULTS PRESENTED IN INSTRUMENT UNITS)

ATTACHMENT A

SOIL TPH/GRO DISTRIBUTION MAP AND APPROXIMATE EXTENT OF SOIL IMPACT EXCEEDING RCL

PETRO CENTER 1
 SHEBOYGAN, WI
 SHEBOYGAN OIL COMPANY

SCALE IN FEET

0 15 30

LENGTH OF BAR IS 1"

IF BAR IS NOT ON THE DRAWING, ADJUST THE SCALE ACCORDINGLY

NOTES

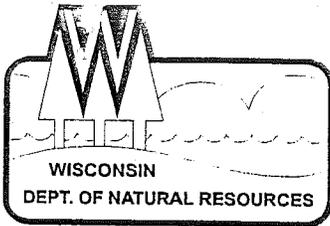
1. UNDERGROUND SEWER AND UTILITY INFORMATION IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
3. HORIZONTAL DATUM IS BASED ON A RELATIVE SYSTEM ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH ZONE AND ALL BEARINGS REFERENCED TO GRID NORTH.
4. VERTICAL DATUM IS BASED ON A LOCAL BM OR AT MEAN SEA LEVEL, 1929 ADJUSTMENT.
5. ALL EQUIPOTENTIAL LINES ARE IN FEET ABOVE MEAN SEA LEVEL, 1929 ADJUSTMENT.
6. DATA BASED ON A 10/81 REPORT BY NORTHERN ENVIRONMENTAL TECHNOLOGIES, INC. OF MEDQUIN, IL.
7. DATA BASED ON A 08/83 REPORT BY LAYNE GEOSCIENCE, INC. OF PEABODY, IL.

Cashier ID: 9
COUNTER CUSTOMER - NO NAME
TRANSACTION #: 047110
11-07-2000 10:08 AM
DOCUMENT # 1582968
Type of Document
RESTRICTION
of Pages 5

Recording Fee: 18.00

TOTAL: 18.00
CASH: 20.00
CHANGE: -2.00

THANK YOU
DARLENE J. NAVIS
SHEBOYGAN COUNTY
REGISTER OF DEEDS



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

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

Southeast Region Annex
4041 North Richards Street
PO Box 12436
Milwaukee, Wisconsin 53212-0436
Telephone 414-229-0800
FAX 414-229-0810

December 2, 1999

Mr. Peter Guske
Sheboygan Oil Co., Inc.
3801 Superior Avenue
Sheboygan, WI 53081

WDNR FID#460075880
BRRTS#0360001000

RE: Closure request for Sheboygan Oil Co, Inc. – Petro Center 1, 1208 Union Avenue,
Sheboygan, WI

Dear Mr. Guske:

On November 30, 1999, the Department of Natural Resources' Southeast Region Closure Committee reviewed your request for closure of the above-referenced site. Based on a review of investigative and remedial documentation provided to the Department, it appears that petroleum contamination associated with 4 underground storage tanks that were removed from the site in 1990, has been remediated to the extent practicable. Therefore the Department has determined that no further action is necessary at the site at this time and will consider the case closed in accordance with ch. NR726.05(8)(am), Wis. Adm. Code upon completion of the conditions cited below.

1. Because approximately 2,300 cubic yards of contaminated soil exceeds NR 720 Wis. Adm. Code standards for, a condition of site closure is the recording of a property deed restriction which requires maintenance of current site conditions and investigation and/or remediation of contaminated soil if excavation occurs or if asphalt pavement is disturbed in the future. Please prepare a draft deed restriction that requires maintenance of the asphalt pavement on site and includes maintenance actions and inspection frequency. Please include a site map that identifies areas and concentration of residual contamination as well as clearly marking asphalted areas.
2. Benzene concentrations measured from onsite monitor wells MW 101 and MW 103 exceed NR 140 Wis. Adm. Code enforcement standards. A condition of site closure is that you must place a groundwater use restriction on the property deed at the county registrar of deeds office which includes the location, type and concentration of contaminants and includes the following language:

Natural attenuation has been approved by the Department of Natural Resources to remediate groundwater exceeding ch. NR 140 groundwater standards within the boundaries of this property. Construction of wells where water quality exceeds the drinking water standards in ch. NR 809 is restricted by chs. NR 811 and NR 812. Special well construction standards or water treatment requirements, or both, or well construction prohibitions may apply. Anyone who proposes to construct or reconstruct a well on this property is required to contact the Department of Natural Resources'

*Quality Natural Resources Management
Through Excellent Customer Service*



Bureau of Drinking Water and Groundwater to determine what specific requirements are applicable prior to constructing a well on this property.

Please submit draft deed restrictions to the Department for approval prior to recording with the Registrar of deeds. The property owner must then submit to the Department a copy of the recorded deed restrictions. (If at a later time it is demonstrated that contamination at this site has decreased to acceptable levels, you may ask the Department to issue a written determination that you may file with the county registrar of deeds giving notice that the previously recorded deed restriction or groundwater use restriction is no longer required.)

3. Provide written notification to the City of Sheboygan and local utility companies that residual soil contamination may be present in the right-of-way along Union Avenue and South Twelfth Street adjacent to this site which may be encountered during roadwork or utility work. Please submit a copy of this letter to the Department.
4. Groundwater monitor wells must be abandoned in accordance with Wis. Adm. Code NR 141 and completed abandonment forms must be submitted to the Department.

Once the Department has received the copies of the recorded deed restrictions, well abandonment forms and a copy of the notification to the City of Sheboygan regarding potential contamination in the right-of-way, this site will be entered as closed on the Department's tracking system. However, the case may be reopened pursuant to s. NR 726.09, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

The Department appreciates the actions you have taken to investigate and remediate the contamination at the Petro Center 1 site. If you have any questions regarding this letter, please contact me at the letterhead address or at (414) 229-0874.

Please include the WDNR FID and BRRTS numbers listed at the top of this letter in any future correspondence.

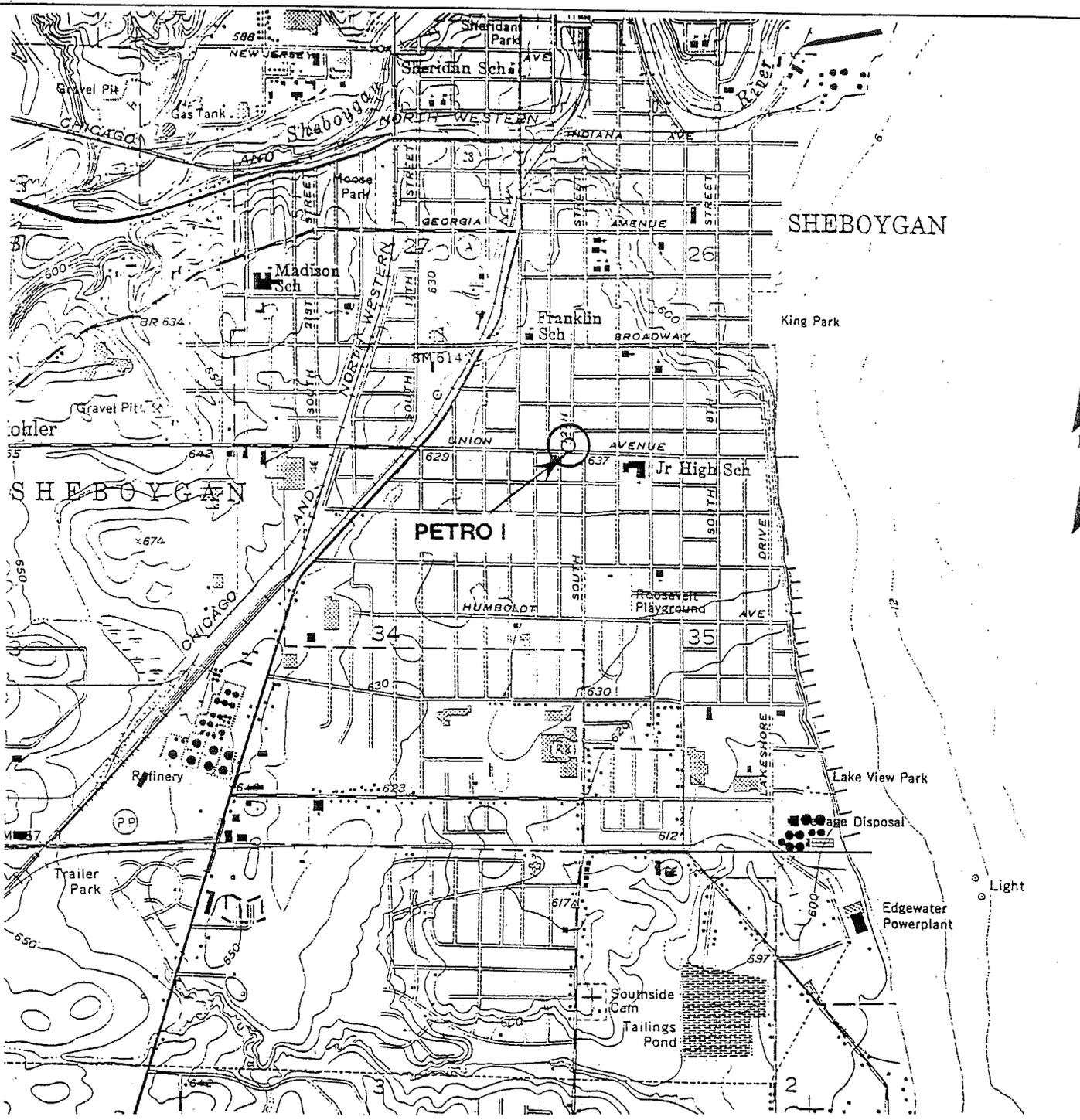
Sincerely,



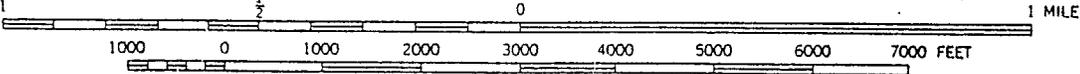
Nancy D. Ryan
Hydrogeologist

Cc: SER site file
Christopher Macek, GZA Environmental, Inc.

Enclosures: model deed restrictions



SCALE 1:24000

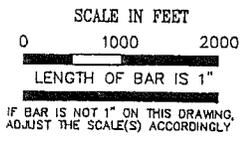


CONTOUR INTERVAL 10 FEET



© 1994 GZA GeoEnvironmental, Inc.

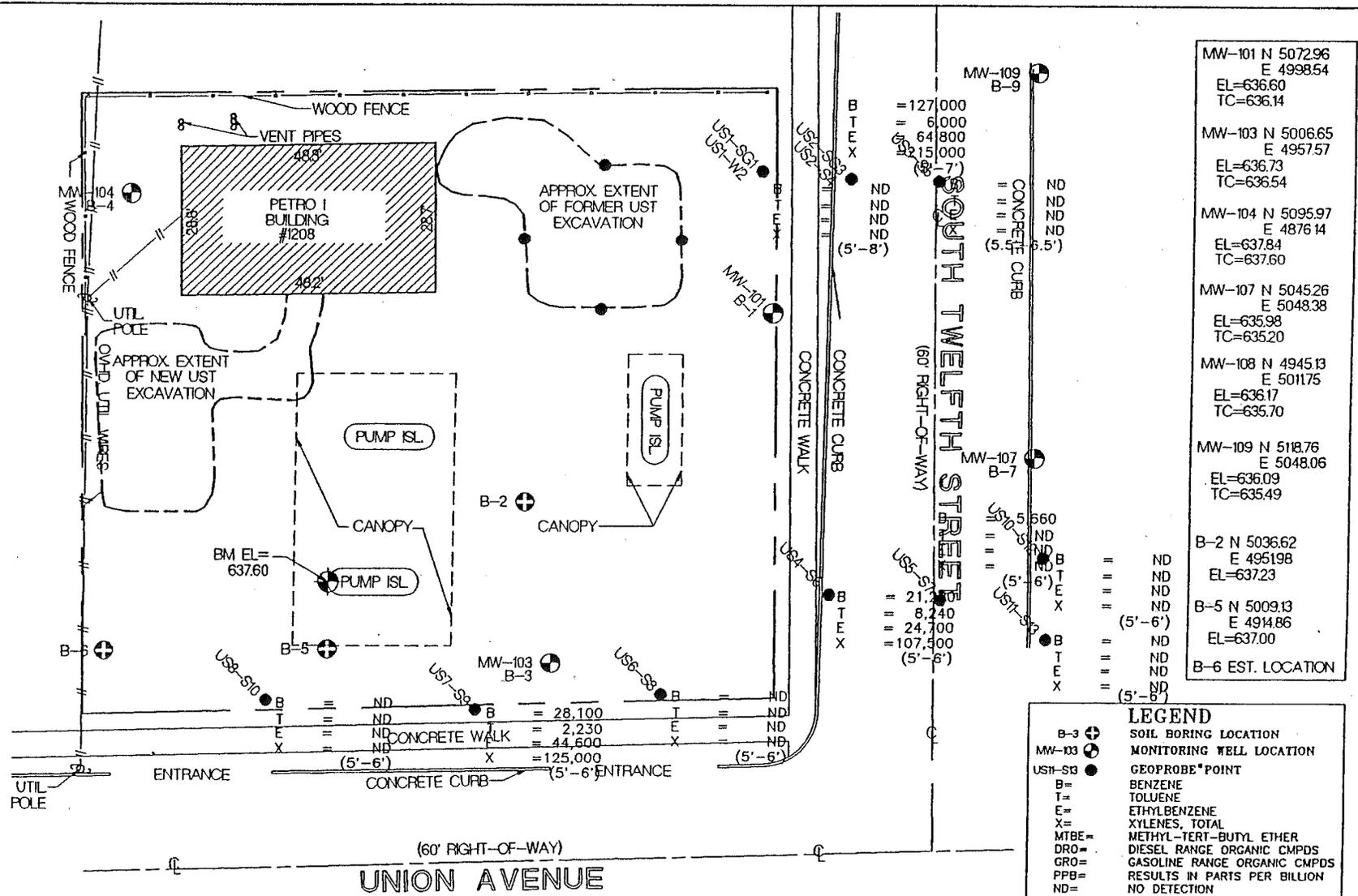
DATE	REVISIONS	INT



LOCATION MAP
 PETRO CENTER 1
 SHEBOYGAN, WI
 SHEBOYGAN OIL COMPANY

PROJECT NO.: 150028.10 DRAWING NO.: 15002801
 DRAWN BY: D.J.H. FIGURE NO.: 1
 DESIGNED BY: L.W.P. SCALE: 1"=30'
 REVIEWED BY: J.C.O. DATE: 07/29/94

GZA GeoEnvironmental, Inc.
 A Division of GZA GeoEnvironmental Technologies, Inc.
 Pewaukee, Wisconsin



NOTES

1. UNDERGROUND SEWER AND UTILITY INFORMATION IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO.
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5. ALL EQUIPOTENTIAL LINES ARE IN FEET ABOVE MEAN SEA LEVEL.
6. DATA BASED ON A 10/91 REPORT BY NORTHERN ENVIRONMENTAL TECHNOLOGIES, INC. OF MEQUON, WI.
7. DATA BASED ON A 09/93 REPORT BY LAYNE GEOSCIENCES, INC. OF PEWAUKEE, WI.

UNION AVENUE

LEGEND

- B-3 ⊕ SOIL BORING LOCATION
- MW-103 ⊕ MONITORING WELL LOCATION
- UST-SG3 ● GEOPROBE POINT
- B= BENZENE
- T= TOLUENE
- E= ETHYLBENZENE
- X= XYLENES, TOTAL
- MTBE= METHYL-TERT-BUTYL ETHER
- DRO= DIESEL RANGE ORGANIC CMPDS
- GRO= GASOLINE RANGE ORGANIC CMPDS
- PPB= RESULTS IN PARTS PER BILLION
- ND= NO DETECTION

DATE	REVISIONS	INI

GEOPROBE® BTEX HEADSPACE DISTRIBUTION MAP (SAMPLED 07/92) (IN PPBV) PETRO CENTER 1 SHEBOYGAN, WI SHEBOYGAN OIL COMPANY

PROJECT NO.: 150028.10 DRAWING NO.: 15002805
 DRAWN BY: L.W.P. FIGURE NO.: 5
 DESIGNED BY: L.W.P. SCALE: 1"=30'
 REVIEWED BY: J.C.O. DATE: 07/29/94

GZA GeoEnvironmental, Inc.
 A Division of GZA GeoEnvironmental Technologies, Inc.
 Pewaukee, Wisconsin

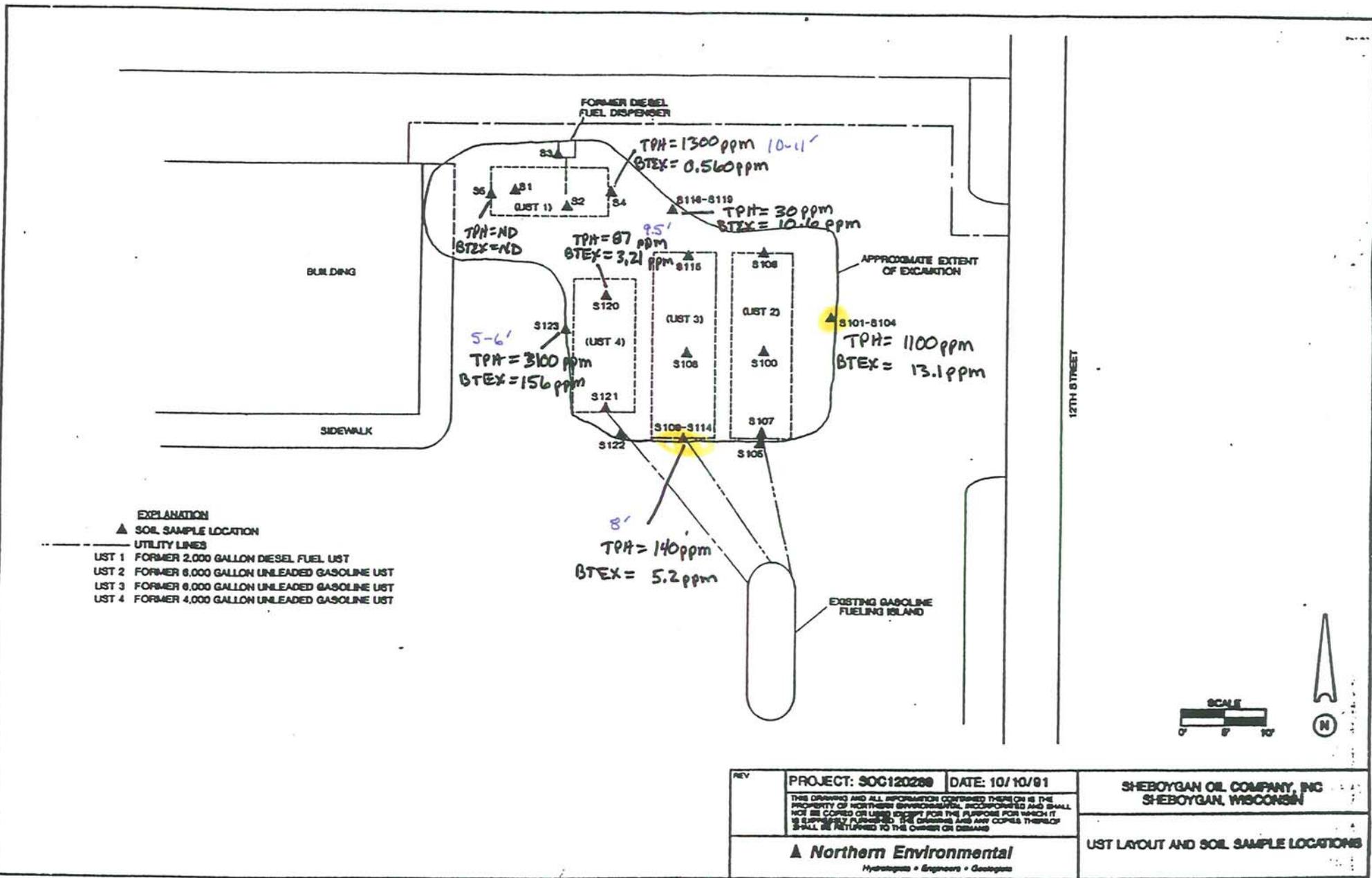
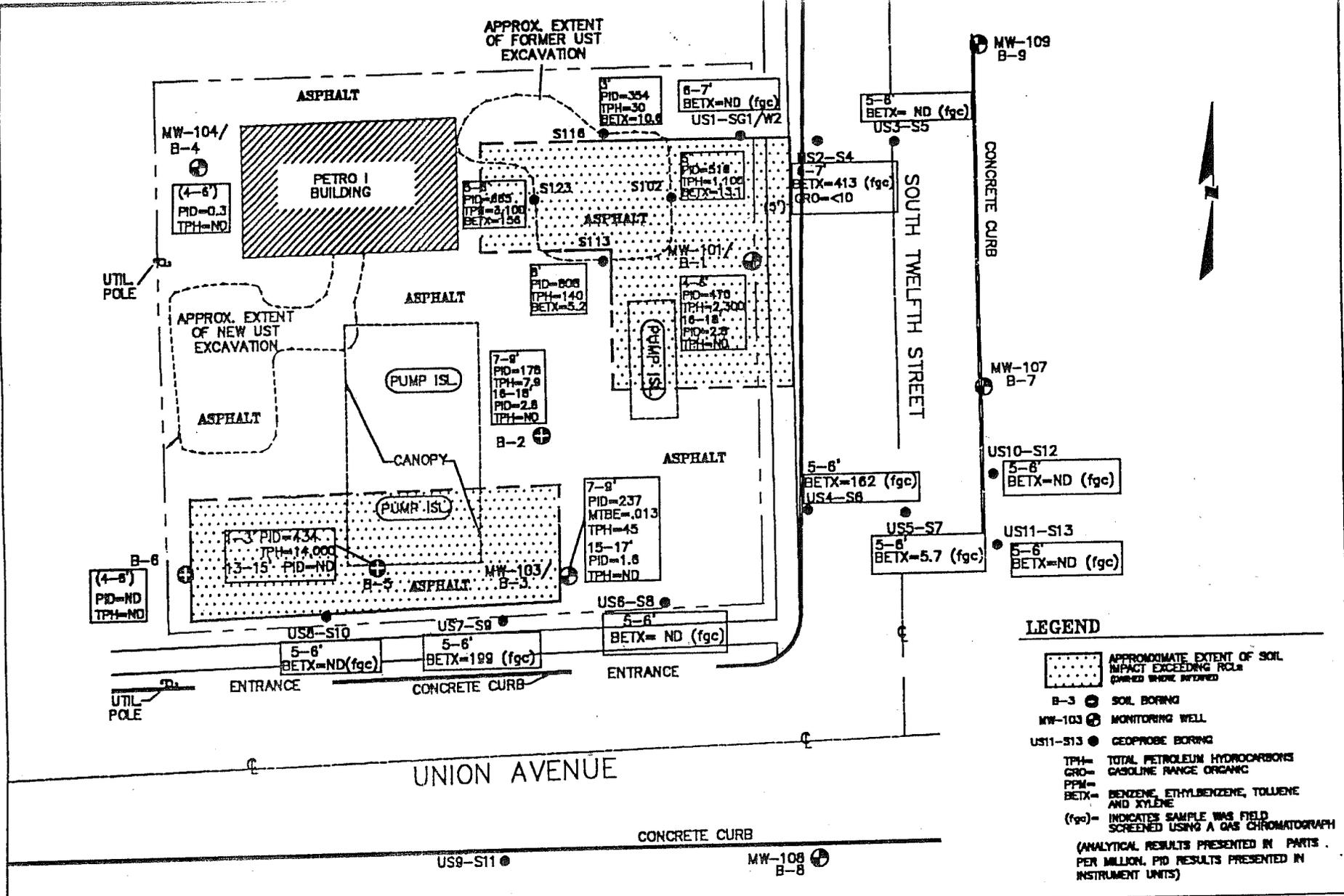


FIGURE 2



LEGEND

- APPROXIMATE EXTENT OF SOIL IMPACT EXCEEDING RCL (SHADE WHERE APPLICABLE)
- B-3 SOIL BORING
- MW-103 MONITORING WELL
- US11-S13 GEOPROBE BORING
- TPH= TOTAL PETROLEUM HYDROCARBONS
- GRO= GASOLINE RANGE ORGANIC
- PPM=
- BETX= BENZENE, ETHYLBENZENE, TOLUENE AND XYLENE
- (fgc)= INDICATES SAMPLE WAS FIELD SCREENED USING A GAS CHROMATOGRAPH
- (ANALYTICAL RESULTS PRESENTED IN PARTS PER MILLION, PID RESULTS PRESENTED IN INSTRUMENT UNITS)

ATTACHMENT A

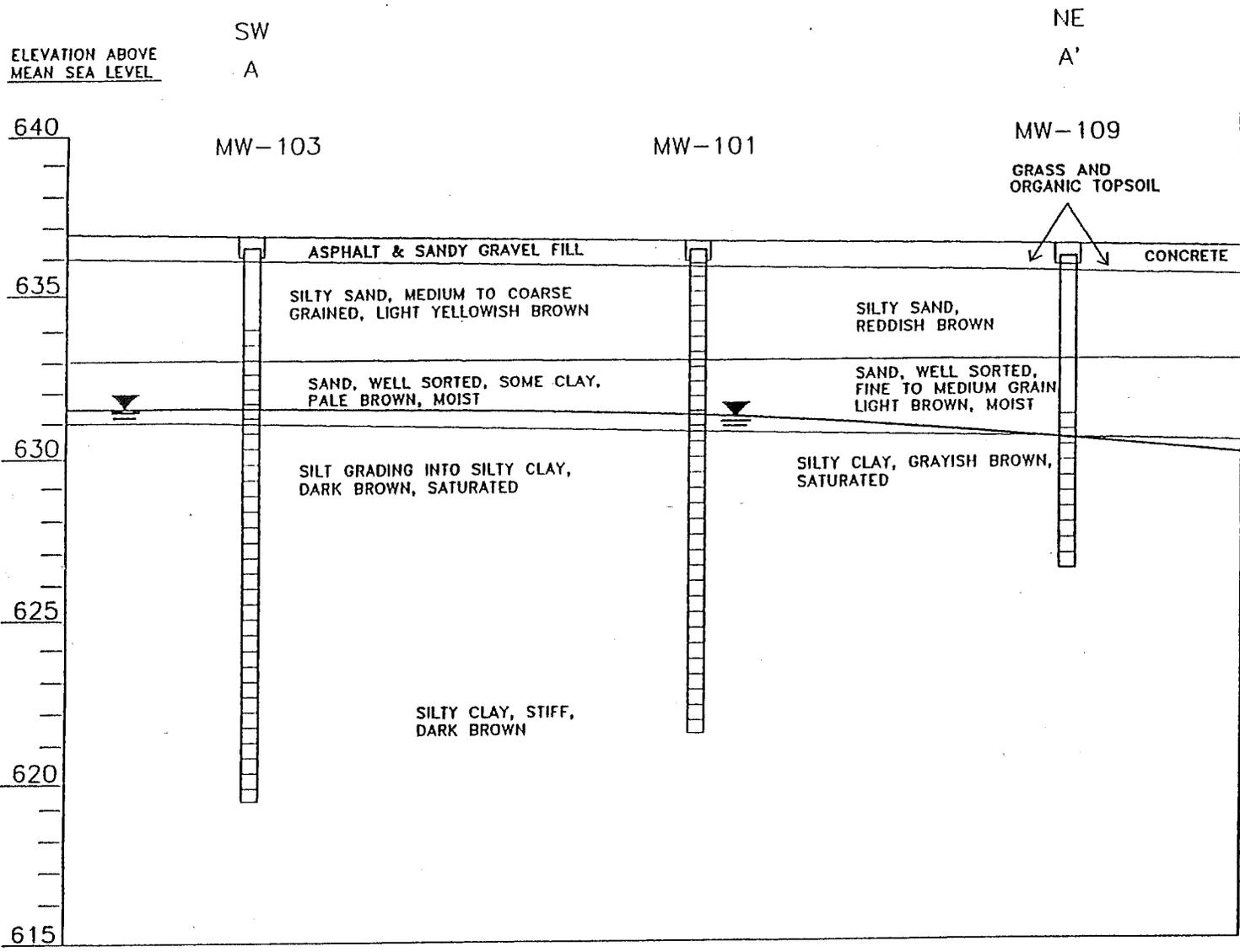
SOIL TPH/GRO DISTRIBUTION MAP AND APPROXIMATE EXTENT OF SOIL IMPACT EXCEEDING RCL

PETRO CENTER 1
SHEBOYGAN, WI
SHEBOYGAN OIL COMPANY

NOTES

1. UNDERGROUND SEWER AND UTILITY INFORMATION IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
3. HORIZONTAL DATUM IS BASED ON A RELATIVE SYSTEM ON THE WISCONSIN STATE PLANE COORDINATE SYSTEM GRID, SOUTH ZONE AND ALL BEARINGS REFERENCED TO GRID NORTH.
4. VERTICAL DATUM IS BASED ON A LOCAL BM OR AT MEAN SEA LEVEL, 1929 ADJUSTMENT.
5. ALL EQUIPOTENTIAL LINES ARE IN FEET ABOVE MEAN SEA LEVEL, 1929 ADJUSTMENT.
6. DATA BASED ON A 10/81 REPORT BY NORTHERN ENVIRONMENTAL TECHNOLOGIES, INC. OF MEDUCH, IL.
7. DATA BASED ON A 08/83 REPORT BY LAYNE GEOSCIENCE, INC. OF PEABODY, IL.

SCALE IN FEET
0 15 30
LENGTH OF BAR IS 1"
IF BAR IS NOT ON THE DRAWING, ADJUST THE SCALE ACCORDINGLY

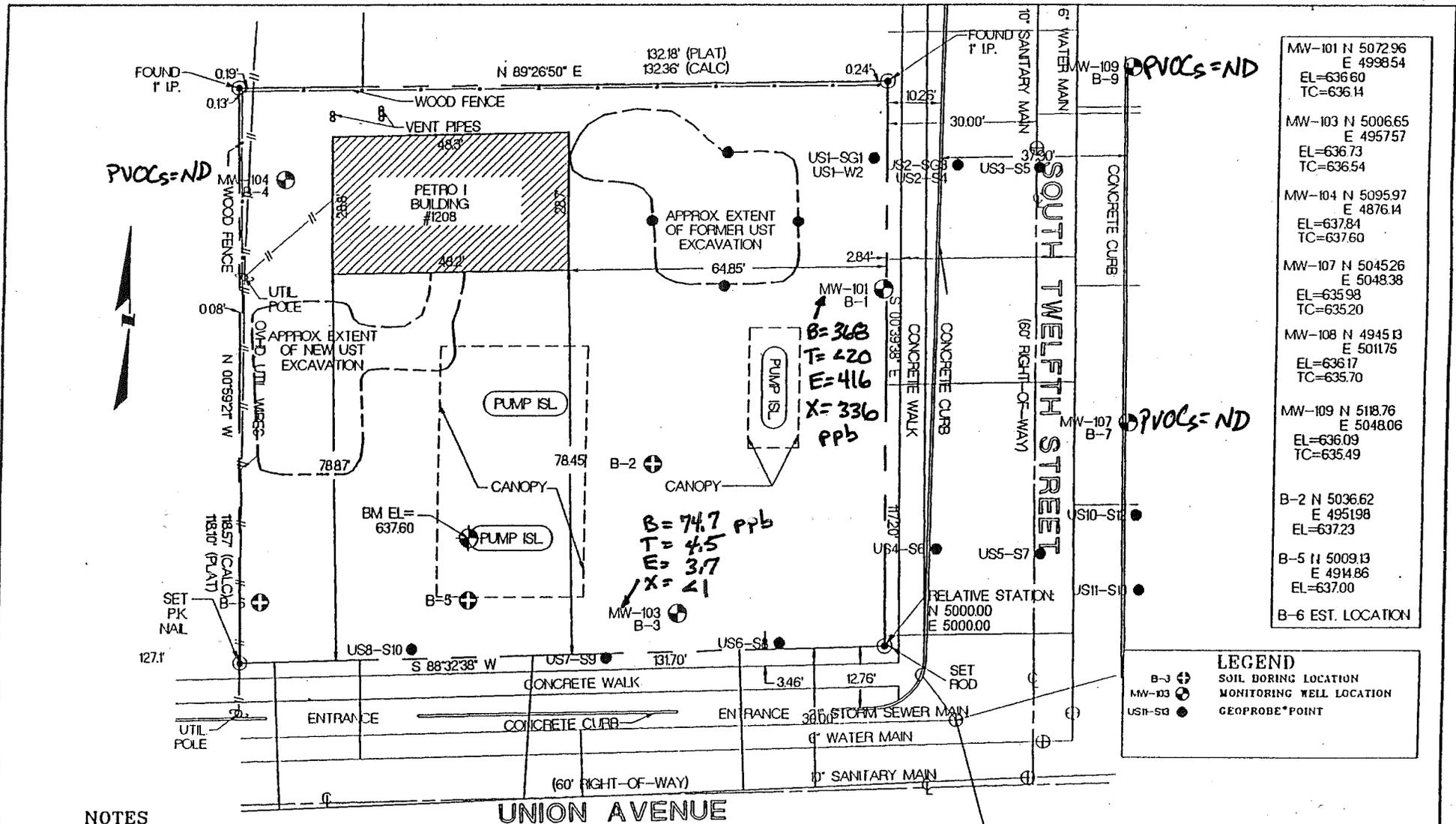


HORIZONTAL SCALE: 1" = 30'
 VERTICAL EXAGGERATION 6X
 ▽ WATER TABLE

Layne GeoSciences, Inc.
 A Subsidiary of LAYNE-WESTERN COMPANY, INC.

FIGURE 5
GEOLOGIC CROSS-SECTION A-A'

Drawn by:	CSM	Checked by:		Drawing number
	4/93	Approved by:		



MW-101 N 5072.96 E 4998.54 EL=636.60 TC=636.14
MW-103 N 5006.65 E 4957.57 EL=636.73 TC=636.54
MW-104 N 5095.97 E 4876.14 EL=637.84 TC=637.60
MW-107 N 5045.26 E 5048.38 EL=635.98 TC=635.20
MW-108 N 4945.13 E 5011.75 EL=636.17 TC=635.70
MW-109 N 5118.76 E 5048.06 EL=636.09 TC=635.49
B-2 N 5036.62 E 4951.98 EL=637.23
B-5 N 5009.13 E 4914.86 EL=637.00
B-6 EST. LOCATION

LEGEND	
B-3	SOIL BORING LOCATION
MW-103	MONITORING WELL LOCATION
US1-SG1	GEOPROBE POINT

NOTES

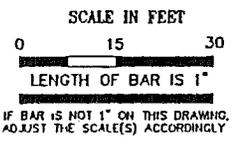
1. UNDERGROUND SEWER AND UTILITY INFORMATION IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO.
2. THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
3. HORIZONTAL DATUM IS BASED ON A RELATIVE SYSTEM OR THE WISCONSIN STATE PLANE COORDINATE SYSTEM (GCS, SOUTH ZONE) AND ALL BEARINGS REFERENCED TO GRID NORTH.
4. VERTICAL DATUM IS BASED ON A LOCAL B.M. OR AT MEAN SEA LEVEL, 1929 ADJUSTMENT.
5. ALL ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL, 1929 ADJUSTMENT.
6. DATA BASED ON A 1991 REPORT BY NORTHERN ENVIRONMENTAL TECHNOLOGIES, INC. OF MEQUON, WI.
7. DATA BASED ON A 1993 REPORT BY LAYNE GEOSCIENCES, INC. OF PEWAUKEE, WI.

TO OBTAIN LOCATIONS OF PARTICIPANT'S UNDERGROUND FACILITIES BEFORE YOU DIG, PLEASE CALL: CALL DELEGATE HOTLINE 1-800-742-2661 TOLL FREE 14.4K AREA 228-088

WE STRONGLY RECOMMEND YOU OBTAIN ALL NECESSARY PERMITS BEFORE YOU EXCAVATE.

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DATE	REVISIONS	INI
07/29/94	UTILITIES, MSC.	LWP



SITE MAP
GROUNDWATER ANALYTICAL JUL-98
 PETRO CENTER 1
 SHEBOYGAN, WI
 SHEBOYGAN OIL COMPANY

PROJECT NO.:	150028.10	DRAWING NO.:	15002802
DRAWN BY:	L.W.P.	FIGURE NO.:	2
DESIGNED BY:	L.W.P.	SCALE:	1"=30'
REVIEWED BY:	J.C.O.	DATE:	07/29/94



GZA
 GeoEnvironmental, Inc.
 A Division of GZA GeoEnvironmental Technologies, Inc.
 Pewaukee, Wisconsin

Table 1 Summary of Field and Laboratory Data, UST Excavation, Sheboygan Oil Company, Self-Serve Petro Center, Sheboygan, Wisconsin

Sample Label	Depth (feet)	Date Collected	PID Headspace Analysis		PID Response (ppm)	Results of Laboratory Analysis			Sample Odor	Sample Description	Approximate Sample Location
			Time Collected	Time Analyzed		Summation of BETX Analysis (ppm)	TPH Analysis (ppm)	Total Lead Analysis (ppm)			
S1	0.0 - 1.0	08/03/90	0740	0800	0.0	--	--	--	Earthy	Gravelly sand	Below diesel fuel UST fill pipe
S2	4.0 - 5.0	08/03/90	0830	0850	0.0	--	--	--	None	Sand	Top of diesel fuel UST
S3	0.0 - 1.0	08/03/90	1000	1045	0.0	--	--	--	Very Slight Petroleum	Sand and gravel	Below diesel fuel dispenser
S4	10.0 - 11.0	08/03/90	1035	1110	59	0.560	1300 D	--	Slight Petroleum	Sand, gravel, and clayey sand	Below east end of diesel fuel UST (UST1)
S5	10.0 - 11.0	08/03/90	1040	1110	8.3	ND	ND	--	None	Sand, gravel, and silty clay	Below west end of diesel fuel UST (UST1)
S100	0.0 - 1.0	08/03/90	1110	1145	580	--	--	--	Moderate Gasoline	Sand, gravel, and clayey sand	Below fill pipe (UST2)
S101	3.0	08/03/90	1245	1306	215	--	--	--	Moderate Gasoline	Silty sand	East wall
S102	5.0	08/03/90	1247	1308	516	13.1	1100 G	ND	Moderate Gasoline	Sand, clayey sand	East wall
S103	6.5	08/03/90	1249	1310	413	--	--	--	Strong Gasoline	Silty clay	East wall
S104	8.0	08/03/90	1300	1312	397	--	--	--	Strong Gasoline	Silty clay	East wall
S105	3.0	08/03/90	1305	1313	562	--	--	--	Mod. to Strong Gasoline	Sand	East wall
S106	9.0 - 10.0	08/03/90	1315	1340	72	--	--	--	Strong Gasoline	Sands, black staining and clay	Under piping product lines (UST2)
S107	9.0 - 10.0	08/03/90	1316	1342	900	--	--	--	Strong Gasoline	Sands, clay, and clayey silt	Below north end (UST2)
S108	1.0 - 2.0	08/03/90	1320	1400	539	--	--	--	Strong Gasoline	Sands and gravel, light brown	Below south end (UST2)
S109	3.0	08/03/90	1325	1401	449	--	--	--	Strong Gasoline	Sands and gravel, light brown	Below fill pipe (UST3)
S110	2.5 - 3.0	08/03/90	1402	1416	680	--	--	--	Mod. to Strong Gasoline	Silty sands	Below product lines (UST3)
S111	5.0	08/03/90	1404	1417	257	--	--	--	Moderate Gasoline	Sands and clayey sand, brown	Below piping, south wall (UST3)
S112	6.5	08/03/90	1405	1418	340	--	--	--	Mod. to Strong Gasoline	Sands, grayish brown, moist	South wall
S113	8.0	08/03/90	1407	1419	808	5.20	140 G	ND	Strong Gasoline	Sand, brown with dark staining, wet	South wall
S114	9.5	08/03/90	1409	1420	432	--	--	--	Mod. to Strong Gasoline	Sand and silty clay mix, grayish brown	South wall
S115	9.5	08/03/90	1455	1510	484	--	--	--	Moderate Gasoline	Sand, grayish brown	Below south end (UST3)
S116	3.0	08/03/90	1550	1610	354	10.6	30 G	21	Strong Gasoline	Sand, dark staining	Below north end (UST3)
S117	5.0	08/03/90	1552	1611	272	--	--	--	Moderate Gasoline	Sandy loam	North wall
S118	6.5	08/03/90	1554	1612	10	--	--	--	Mod. to Strong Gasoline	Sandy silt, moist	North wall
S119	8.0	08/03/90	1556	1613	0.5	--	--	--	Moderate Gasoline	Clayey sand, saturated	North wall
S120	9.5	08/03/90	1558	1614	959	3.21	87 G	ND	Slight to Mod. Gasoline	Clayey sand, wet - saturated	North wall
S121	9.5	08/03/90	1600	1615	265	--	--	--	Strong Gasoline - Degraded	Clayey sand, black stain	Below north end (UST4)
S122	3.0	08/03/90	1605	1616	75	--	--	--	Strong Gasoline	Sand, clayey sand, brown	Below south end (UST4)
S123	5.0 - 6.0	08/03/90	1625	1645	665	156	3100 G	ND	Moderate Gasoline	Sand and silty sand	Below product lines, south end (UST4)
									Strong Gasoline - Degraded	Sand and clay, dark gray	West wall

NOTE:
 D = TPH Quantified as Diesel Fuel
 G = TPH Quantified as Gasoline
 ND = Not Detected
 ppm = parts per million
 PID = Photoionization Detector
 BETX = Benzene, Ethylbenzene, Toluene, and Total Xylenes

Table 2 Summary of Field and Laboratory Data, Soil Exploration Boreholes, Sheboygan Oil Company, Self-Serve Petro Center, Sheboygan, Wisconsin

Borehole I.D.	Sample Label	Depth (feet)	Date Collected	PID Headspace Analysis		Results of Laboratory Analysis					Sample Odor	Sample Description
				Time Collected	Time Analyzed	PID Response (ppm)	MTBE Analysis (ppb)	Summation of BETX Analysis (ppm)	TPH Analysis (ppm)	Total Lead Analysis (ppm)		
B1	S1	1.0 - 3.0	09/19/90	0855	0948	225	-	-	-	-	Degraded Gasoline	Moist, yellowish brown silty sand
	S2	4.0 - 6.0	09/19/90	0904	0949	470	36	-	2300	3.9	Strong Gasoline	Saturated, pale brown, sand and clayey sand
	S3	7.0 - 9.0	09/19/90	0910	0949	45	-	-	-	-	Strong Degraded Gasoline	Saturated, brown, silt grading into silty clay
	S4	10.0 - 12.0	09/19/90	0918	0950	63	-	-	-	-	None	Wet, dark brown, clayey silt/silty clay
	S5	13.0 - 15.0	09/19/90	0930	0952	38	-	-	-	-	None	Wet, dark brown, silty clay
	S6	16.0 - 18.0	09/19/90	0957	1012	2.8	-	-	ND	-	None	Saturated, dark brown, silty clay
B2	S1	1.0 - 3.0	09/19/90	1052	1131	182	-	-	-	-	Strong Degraded Gasoline	Moist, light to dark brown, clay, silt, and sand
	S2	4.0 - 6.0	09/19/90	1059	1132	89	-	-	-	-	Strong Degraded Gasoline	Moist, light grayish brown, sand
	S3	7.0 - 9.0	09/19/90	1105	1133	178	-	-	7.9	-	Strong Degraded Gasoline	Saturated, brown, clayey silt/silty clay
	S4	10.0 - 12.0	09/19/90	1112	1134	178	-	-	-	-	Slight Degraded Gasoline	Wet, brown, silty clay/clayey silt
	S5	13.0 - 15.0	09/19/90	1121	1135	4.1	-	-	ND	-	None	Saturated, dark grayish brown, silty clay
B3	S1	1.0 - 3.0	09/19/90	1243	1334	29	-	-	-	-	None	Moist, light to dark brown, gravelly silty sand
	S2	4.0 - 6.0	09/19/90	1250	1335	4.6	-	-	-	-	Slight Petroleum	Saturated, dark grayish brown, gravelly clayey sand
	S3	7.0 - 9.0	09/19/90	1258	1336	237	13	-	45	3.6	Strong Degraded Gasoline	Saturated, brown to dark brown, clayey silt/silty clay
	S4	10.0 - 12.0	09/19/90	1305	1336	57	-	-	-	-	Slight Petroleum	Wet, dark grayish brown, silty clay/clayey silt
	S5	13.0 - 15.0	09/19/90	1311	1337	6.0	-	-	-	-	Slight Petroleum	Saturated, brown to dark brown, silty clay
	S6	15.0 - 17.0	09/19/90	1350	1408	1.6	-	-	ND	-	None	Saturated, brown to dark brown, silty clay
B4	S1	1.0 - 3.0	09/19/90	1507	1548	0.9	-	-	-	-	Slight Organic "Earthy"	Moist, brown to grayish brown, silty sand
	S2	4.0 - 6.0	09/19/90	1511	1548	0.3	-	-	ND	-	None	Saturated, brown to grayish brown, silty sand and clay
	S3	7.0 - 9.0	09/19/90	1515	1549	0.3	-	-	-	-	None	Saturated, brown to yellowish brown, clayey silt/silty clay
	S4	10.0 - 12.0	09/19/90	1521	1549	0.3	-	-	-	-	None	Saturated, brown, silty clay
	S5	13.0 - 15.0	09/19/90	1531	1550	0.0	-	-	-	-	None	Saturated, brown, silty clay
B5	S1	1.0 - 3.0	09/21/90	1312	1358	434	ND	-	14,000 E	13	Strong Degraded Petroleum	Moist, yellowish brown to very dark grayish brown, silty sand
	S2	4.0 - 6.0	09/21/90	1321	1359	450	-	-	-	-	Extremely Strong Gasoline	Saturated, yellow brown/grayish brown sand grading into silt and clay
	S3	7.0 - 9.0	09/21/90	1331	1359	126	-	-	-	-	None	Saturated, brown to dark brown clayey silt grading into silty clay
	S4	10.0 - 12.0	09/21/90	1340	1401	26	-	-	-	-	None	Saturated, grayish brown, silty clay
	S5	13.0 - 15.0	09/21/90	1350	1402	1.8	-	-	-	-	None	Saturated, grayish brown, silty clay with some small gravel
B6	S1	1.0 - 3.0	09/21/90	1430	1519	0.6	-	-	-	-	Slight Organic	Moist, black, brown, yellowish brown, silty sand
	S2	4.0 - 6.0	09/21/90	1436	1520	0.0	-	-	ND	-	None	Saturated, brown silt clay/clayey silt, four inch sand layer
	S3	7.0 - 9.0	09/21/90	1445	1520	0.0	-	-	-	-	None	Saturated, brown to dark brown clayey silt/silty clay
	S4	10.0 - 12.0	09/21/90	1453	1521	0.0	-	-	-	-	None	Saturated, brown to dark brown, silty clay/clayey silt
	S5	13.0 - 15.0	09/21/90	1502	1522	0.0	-	-	-	-	None	Saturated, brown to dark brown, silty clay

NOTE:
 ND = Not Detected PID = Photoionization Detector
 E = Estimated Concentration TPH = Total Petroleum Hydrocarbons
 ppm = parts per million MTBE = Methyl Tertiary Butyl Ether
 ppb = parts per billion BETX = Benzene, Ethylbenzene, Toluene, and Total Xylenes

Table 1

Summary of In-Field Analytical Survey: BETX Headspace and Laboratory Analyses

Sample No.	Depth (ft)	Field GC BETX (ppbv)	Laboratory GRO (mg/kg)
US1-SG1	5	ND	NS
US1-W2	8	148,600	29.67*
US2-SG3	5	1,950	NS
US2-S4	6-7	412,900	NS
US3-S5	5.5-6.5	ND	NS
US4-S6	5-6	161,640	< 10.0
US5-S7	5-7	5,660	NS
US6-S8	5-6	ND	NS
US7-S9	5-6	199,930	NS
US8-S10	5-6	ND	NS
US9-S11	5-6	ND	NS
US10-S12	5-6	ND	NS
US11-S13	5-6	ND	NS

water ↓?

S: Soil Sample
 SG: Soil Gas Sample
 W: Water Sample
 ND: No Detect
 NS: Not Sampled
 * High VOC Detects, See Appendix B

Layne GeoSciences Field Analytical Survey

Client: Sheboygan Oil Co.
 Project: 61.2953- Union Ave.
 Date: 7/6-7/92

SAMPLE #	SAMPLE DEPTH (ft)	ANALYTE	CONC. (ppb)	COMMENTS
US1-SG1	5	BENZENE	nd	Calibration.
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US1-W2	8	BENZENE	72,500	
		TOLUENE	nd	
		ETHYLBENZENE	20,200	
		M, P-XYLENE	55,900	
		O-XYLENE	nd	
VOA/DI Blank 1	na	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US2-SG3	5	BENZENE	1,950	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US2-S4	6-7	BENZENE	127,000	
		TOLUENE	6,100	
		ETHYLBENZENE	64,800	
		M, P-XYLENE	215,000	
		O-XYLENE	nd	
US3-S5	5.5-6.5	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US4-S6	5-6	BENZENE	21,200	
		TOLUENE	8,240	
		ETHYLBENZENE	24,700	
		M, P-XYLENE	89,600	
		O-XYLENE	17,900	

Sample	Depth	Analyte	Conc.	Comments
US5-S7	2.5	BENZENE	5,660	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
VOA/DI Blank 2	na	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US6-S8	5-6	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US7-S9	5-6	BENZENE	28,100	
		TOLUENE	2,230	
		ETHYLBENZENE	44,600	
		M, P-XYLENE	125,000	
		O-XYLENE	nd	
US8-S10	5-6	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US9-S11	5-6	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
10 ppm BTEX Std.	na	BENZENE		Calibration
		TOLUENE		
		ETHYLBENZENE		
		M, P-XYLENE		
		O-XYLENE		
Equipment Blank	na	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US10-S12	5-6	BENZENE	nd	
		TOLUENE	nd	

Sample	Depth	Analyte	Conc.	Comments
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	
US11-S13	5-6	BENZENE	nd	
		TOLUENE	nd	
		ETHYLBENZENE	nd	
		M, P-XYLENE	nd	
		O-XYLENE	nd	

na - not applicable
nd - no detect
W - water sample
SG - soil gas sample
S - soil sample
all concentrations in parts per billion

SUMMARY OF GROUNDWATER ANALYTICAL TEST RESULTS

Sheboygan Oil Co., Inc.

Petro Center 1

1208 Union Avenue

Sheboygan, Wisconsin

Analytical Parameter	Units	WAC 140 ES PAL		MW101								MW103							
				Oct-90	Oct-92	Aug-94	Nov-96	Aug-97	Dec-97	Mar-98	Jul-98	Oct-90	Oct-92	Aug-94	Nov-96	Aug-97	Dec-97	Mar-98	Jul-98
GRO	mg/l				13	13								4.93	3.2				
DRO	mg/l				1	8								0.84	0.6				
Benzene	µg/l	5	0.5	2,000	4,270	2,300	989	971	588	140	368	190	120	100	110	223	29.7	136	74.7
Ethylbenzene	µg/l	700	140	5	1,320	1,000	684	448	449	26.6	416	5	690	450	3.6	41.7	14.9	14	3.72
MTBE	µg/l	60	12	61	38		27.9	25	<10	<1.0	<20	49	9.7		57.4	7.97	43	11.2	21.6
Toluene	µg/l	343	68.6	130	180	110	5	5	<10	1.38	<20	47	24	<100	1.8	<5.0	1.7	3.01	4.54
1,2,4-Trimethylbenzene	µg/l				290	1,200	476	326	406	53.8	295		88	470	2.8	5.85	<1.0	9.26	1.08
1,3,5-Trimethyl benzene	µg/l				1,060	390	43.7	24	23.6	8.14	<20		990	<100		<5.0	<1.0	2.85	<1
m/p-Xylene	µg/l	620	124	3,900	2,790		935	327	286	82.4	336	1,400	840		5.5	12.5	2.11	8.75	<1
o-Xylene & Styrene	µg/l	620	124		170		17.3	11.2	14.2	2.31	<20		8.6		<1.0	<5.0	<1.0	<1.0	<1
Total Xylenes	µg/l	620	124			3,600								480					
Naphthalene	µg/l	40	8											100					
Alkalinity	mg/l							606											793
Iron	mg/l							23.2											12.3
Manganese	mg/l							0.403											0.566
Sulfate	mg/l							23.8											2.03
Nitrate-Nitrogen	mg/l							<0.3											<0.3
Dissolved Oxygen	mg/l							0.5											0.4
Eh								-60											-0.006

See Notes on Page 3 of 3

SUMMARY OF GROUNDWATER ANALYTICAL TEST RESULTS

Sheboygan Oil Co., Inc.

Petro Center 1

1208 Union Avenue

Sheboygan, Wisconsin

Analytical Parameter	Units	WAC 140		MW104						MW107						
		ES	PAL	Oct-90	Oct-92	Aug-94	Nov-96	Aug-97	Dec-97	Nov-92	Jan-93	Aug-94	Nov-96	Aug-97	Dec-97	Mar-98
GRO	mg/l			<0.1	<0.1	<0.05				<0.1		<0.05				
DRO	mg/l			<0.1	<0.1	<0.10				<0.1		<0.05				
Benzene	µg/l	5	0.5	<2	<2	<1	<0.5	<0.5	<0.5	<2		<1	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/l	700	140	<2	<2	<1	<1	<1	<1.0	<2		<1	<1	<1	<1.0	<1.0
MTBE	µg/l	60	12	<2	<2		<1	<1	<1.0	<2		<1	<1	<1.0	<1.0	<1.0
Toluene	µg/l	343	68.6	<2	<2	<1	<1	<1	<1.0	2		<1	<1	<1	<1.0	<1.0
1,2,4-Trimethylbenzene	µg/l			<2	<2	<1	<1	<1	<1.0	<2		<1	<1	<1	<1.0	<1.0
1,3,5-Trimethyl benzene	µg/l			<2	<2	<1	<1	<1	<1.0	<2		<1	<1	<1	<1.0	<1.0
m/p-Xylene	µg/l	620	124	<2	<2		<1	<1	<1.0	<2		<1	<1	<1.0	<1.0	<1.0
o-Xylene & Styrene	µg/l	620	124	<2	<2		<1	<1	<1.0	<2		<1	<1	<1.0	<1.0	<1.0
Total Xylenes	µg/l	620	124			<3						<3				
Naphthalene	µg/l	40	8			<1						<1				
Alkalinity	mg/l							268					515			
Iron	mg/l							0.027					0.027			
Manganese	mg/l							<0.002					0.714			
Sulfate	mg/l							21.7					52.5			
Nitrate-Nitrogen	mg/l							18.3					<0.3			
Dissolved Oxygen	mg/l							1.5					0.5			
Eh								0.003					0.003			

See Notes on Page 3 of 3

SUMMARY OF GROUNDWATER ANALYTICAL TEST RESULTS

Sheboygan Oil Co., Inc.

Petro Center 1

1208 Union Avenue

Sheboygan, Wisconsin

Analytical Parameter	Units	WAC 140		MW108							MW109								
		ES	PAL	Nov-92	Jan-93	Aug-94	Nov-96	Aug-97	Dec-97	Mar-98	Jul-98	Nov-92	Jan-93	Aug-94	Nov-96	Aug-97	Dec-97	Mar-98	July-98
GRO	mg/l			<0.1		<0.05							<0.1		<0.05				
DRO	mg/l			<0.1		<0.05							<0.1		<0.05				
Benzene	µg/l	5	0.5	<2	1	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<2	1	<1	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/l	700	140	<2	1	<1	<1	<1	<1.0	<1.0	<1.0	<2	1	<1	<1	<1.0	<1.0	<1.0	<1.0
MTBE	µg/l	60	12	5.2	19		<1	<1	<1.0	<1.0	<1.0	3.4	1		<1	<1	<1.0	<1.0	<1.0
Toluene	µg/l	343	68.6	<2	5	<1	<1	<1	<1.0	<1.0	<1.0	<2	1	<1	<1	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	µg/l			<2	1	<1	<1	<1	<1.0	<1.0	<1.0	<2	1	<1	<1	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethyl benzene	µg/l			<2	1	<1	<1	<1	<1.0	<1.0	<1.0	<2	1	<1	<1	<1.0	<1.0	<1.0	<1.0
m/p-Xylene	µg/l	620	124	<2	1		<1	<1	<1.0	<1.0	<1.0	<2	1	<1	<1	<1.0	<1.0	<1.0	<1.0
o-Xylene & Styrene	µg/l	620	124	<2	1		<1	<1	<1.0	<1.0	<1.0	<2	1		<1	<1	<1.0	<1.0	<1.0
Total Xylenes	µg/l	620	124			<3							1		<1	<1	<1.0	<1.0	<1.0
Naphthalene	µg/l	40	8			<1									<1				
Alkalinity	mg/l							404											
Iron	mg/l							0.031								273			
Manganese	mg/l							0.0024								0.049			
Sulfate	mg/l							16.1								29.6			
Nitrate-Nitrogen	mg/l							0.67								5.94			
Dissolved Oxygen	mg/l							3.8								4			
Eh								0.004								0.005			

Notes:

1. Groundwater samples were collected and field analyzed for dissolved oxygen and Eh by GZA. Analytical testing for PVOCs, metals and other parameters listed was completed by National Environmental Testing, Inc. and U.S. Filter/Enviroscan.
2. MTBE - Methyl tert butyl ether; GRO - gasoline range organic compound; DRO - diesel range organic compound; mg/l - milligrams per liter; ug/l - micrograms per liter.
3. Blank space indicates that the parameter was not analyzed for the constituent.
4. Wisconsin Administrative Code NR 140 Enforcement Standards (ES) and Preventive Action Limits (PALs) are shown for reference where established. Boldface indicates the compound was detected at a concentration above the WAC NR 140 PAL and shading indicates a concentration above the WAC NR 140 ES.

GZA
GeoEnvironmental, Inc.

Engineers and
Scientists

DEPARTMENT OF
NATURAL RESOURCES
SED

2000 SEP 25 AM 9:27

September 21, 2000
File No. 150028.30

RIGHT-OF-WAY

City of Sheboygan - City Clerk's Office
833 Center Avenue
Sheboygan, Wisconsin 53081



Attention: City Clerk

Subject: Notification of Contamination
Sheboygan Oil Company, Inc. - Petro Center 1
1208 Union Avenue
Sheboygan, Wisconsin
WDNR FID # 460075880; WDNR BRRTS # 0360001000

N4140 Duplainville Road
Pewaukee
Wisconsin 53072
262-691-2662
FAX 262-691-9279
<http://www.gza.net>

In accordance with Wisconsin Administrative Code, Chapter NR 726.05 (2) (b) 4, and on behalf of Sheboygan Oil Company, Inc. (SOC), GZA GeoEnvironmental, Inc. (GZA) is submitting this Notification of Contamination for SOC's Petro Center 1 located at 1208 Union Avenue in Sheboygan, Wisconsin ("Site"). A copy of this letter has also been forwarded to Mr. David Biebel of the City of Sheboygan's Engineering Department.

Based on subsurface Site investigation activities performed by GZA, residual soil and groundwater contamination originating from a release from a former gasoline and diesel underground storage tank system may be present in portions of the right-of-ways adjacent to the Site along Union Avenue and South Twelfth Street. A Deed Restriction documenting the residual contamination has been filed with the property deed at the County Registrars office.

Should you have any questions or require additional information regarding the residual contamination contact the Wisconsin Department of Natural Resources (WDNR) or GZA at your convenience.

Very truly yours,

GZA GeoEnvironmental, Inc.

Christopher J. Macek P.G.
Project Manager

Mark J. Krumenacher, P.G.
Associate Principal

cc: Ms. Nancy Ryan (WDNR)
Mr. Peter Guske (Sheboygan Oil Co., Inc.)

150028/mjk/notific2.doc

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September 21, 2000
File No. 150028.30

City of Sheboygan - Engineering Department
833 Center Avenue
Sheboygan, Wisconsin 53081



Attention: Mr. David Biebel

Subject: Notification of Contamination
Sheboygan Oil Co., Inc. - Petro Center 1
1208 Union Avenue
Sheboygan, Wisconsin
WDNR FID # 460075880, WDNR BRRTS # 0360001000

N4140 Duplainville Road
Pewaukee
Wisconsin 53072
262-691-2662
FAX 262-691-9279
<http://www.gza.net>

Dear Mr. Biebel:

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Project Manager

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cc: Ms. Nancy Ryan (WDNR)
Mr. Peter Guske (Sheboygan Oil Co., Inc.)

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