

GIS REGISTRY
Cover Sheet

May, 2008
(RR 5367)

Source Property Information

BRRTS #:

ACTIVITY NAME:

PROPERTY ADDRESS:

MUNICIPALITY:

PARCEL ID #:

CLOSURE DATE:

FID #:

DATCP #:

COMM #:

***WTM COORDINATES:**

X: Y:

** 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:

- | | |
|---|---|
| <input type="checkbox"/> Groundwater Contamination > ES (236) | <input checked="" type="checkbox"/> Soil Contamination > *RCL or **SSRCL or Direct Contact > 4 ft (232) |
| <input type="checkbox"/> Contamination in ROW | <input type="checkbox"/> Contamination in ROW |
| <input type="checkbox"/> Off-Source Contamination | <input type="checkbox"/> Off-Source Contamination |
| <i>(note: for list of off-source properties see "Impacted Off-Source Property")</i> | <i>(note: for list of off-source properties see "Impacted Off-Source Property")</i> |

Land Use Controls:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Soil: maintain industrial zoning (220)
<i>(note: soil contamination concentrations between residential and industrial levels)</i> | <input type="checkbox"/> Cover or Barrier (222)
<i>(note: maintenance plan for groundwater or direct contact)</i> |
| <input type="checkbox"/> Structural Impediment (224) | <input type="checkbox"/> Vapor Mitigation (226) |
| <input type="checkbox"/> Site Specific Condition (228) | <input type="checkbox"/> Maintain Liability Exemption (230)
<i>(note: local government or economic development corporation)</i> |

Monitoring wells properly abandoned? (234)

- Yes No

** 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 #: 03-68-397106

PARCEL ID #: NA - see attached Legal Description Statement

ACTIVITY NAME: Waukesha Gas Service Center

WTM COORDINATES: X: ~~663681~~ ⁶⁶³⁶³⁵ Y: ~~280338~~ ²⁸⁰²⁹⁷

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.)

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 8.5 x 14 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: Figure 1: Site Location Map

Detailed Site Map: A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

Figure #: 2 Title: Site Layout 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 #: 3 Title: Soil Sampling Map

BRRTS #: 03-68-397106

ACTIVITY NAME: Waukesha Gas Service Center

MAPS (continued)

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

Figure #: Title:

Figure #: Title:

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

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

Figure #: Title:

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

Figure #: Title:

Figure #: Title:

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

Tables must be no larger than 8.5 x 14 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 Soil Sample Analytical 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 #: Title:

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 #: 03-68-397106

ACTIVITY NAME: Waukesha Gas Service Center

NOTIFICATIONS

Source Property

- 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.

- 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:



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Matthew J. Frank, Secretary
Gloria L. McCutcheon, Regional Director

Southeast Region Headquarters
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, Wisconsin 53212
Telephone 414-263-8500
FAX 414-263-8550

July 16, 2010

Mr. Trent Kohl
We Energies
333 West Everett Street
Milwaukee, WI 53203

Subject: Final Case Closure with Continuing Obligations
WEPCO Waukesha Gas Service Center
1830 South West Avenue, Waukesha, WI
FID# 268184290, BRRTS# 03-68-397106

Dear Mr. Kohl:

The Department of Natural Resources (the Department) has reviewed the April 29, 2010 *Supplemental Information - Case Closure Request* prepared by Geosyntec Consultants for the case at the above referenced property (the Property). The Department reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. On December 30, 2009, the Department requested additional work that must be completed before the case would be eligible for closure. With the April 29, 2010 closure request the Department received the required explanation and documentation as requested in the Department's December 30, 2009 letter.

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, however, you and future property owners must comply with certain continuing obligations as explained in this letter.

GIS Registry

The Property will be listed on the Department's 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
- Before the land use may be changed from industrial to non-industrial, additional environmental work must be completed

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 Department's 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.

Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. You must pass on the information about these continuing obligations to the next property owner or owners. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the Property poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the Property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter are met.

Residual Soil Contamination

Residual soil contamination remains in the area of the oil fill room on the Property as indicated 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.

Industrial Residual Soil Standards

Soil samples that are representative of remaining soil contamination on the Property were collected on June 10, 2009 in locations surrounding the oil fill room. These samples contained polycyclic aromatic compounds or PAHs in concentrations that meet the site-specific industrial soil standards developed for this site.

Therefore, pursuant to s. NR 726.05(8)(b)1., Wis. Adm. Code, the Property may not be used or developed for a residential, commercial, agricultural or other non-industrial use, unless (at the time that the non-industrial use is proposed) the property owner provides notification to the Department of Natural Resources of the change in land use and an investigation is conducted, to determine the degree and extent of PAH contamination that remains on the Property, and remedial action is taken as necessary to meet all applicable non-industrial soil cleanup standards.

Post-Closure Notification Requirements

In accordance with ss, 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Development, construction or other changes, including zoning changes, that change the land use from industrial to non-industrial

Please send written notifications in accordance with the above requirements to Department of Natural Resources, to the attention of Southeast Region RR Program Associate, 2300 North Dr. Martin Luther King Jr. Drive, Milwaukee, WI 53212.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Dave Volkert at (262) 574-2166.

Sincerely,



Frances M. Koonce
Remediation & Redevelopment Sub-Team Supervisor

cc: Gregory Johnson, Geosytec Consultants
SER File

TRANSEER
\$ 90.00
FEE

WARRANTY DEED
FORM 655

REGISTER'S OFFICE No. 882241
Waukesha Co. Wis.

RECEIVED FOR RECORD THE 23rd DAY
MAY, A. D. 1974 AT 12:30
O'CLOCK P.M. & RECORDED IN REEL 79
OF RECORDS IMAGE

Michael G. Hasslinger
REGISTER

882241

THIS INDENTURE, Made this 20th day of May, A. D. 1974
between G. & W. CONSTRUCTION CORP.

a Corporation duly organized and existing under and by virtue of the laws of the
State of Wisconsin, located at Waukesha
Wisconsin, party of the first part, and WISCONSIN NATURAL GAS
COMPANY

a Corporation duly organized and existing under and by virtue of the laws of the
State of Wisconsin, located at Racine, Wisconsin, party
of the second part.

RETURN TO: Mr. O. F. Koske Rm. 452
Wis. Electric Power Co.
231 West Michigan St.
Milwaukee, Wisconsin 53201

Witnesseth, That the said party of the first part, for and in consideration of the
sum of One Dollar (\$1.00) and other good and valuable consideration

to it paid by the said party of the second part, the receipt whereof is hereby confessed and acknowledged, has given, granted,
bargained, sold, remised, released, aliened, conveyed and confirmed, and by these presents does give, grant, bargain, sell,
remise, release, alien, convey and confirm unto the said party of the second part, its successors and assigns forever, the fol-
lowing described real estate situated in the County of Waukesha and State of Wisconsin, to-wit:

All that part of Lot One (1), Block Thirteen (13), in Sunset Heights Subdivision,
being a subdivision of a part of Section Fifteen (15), Township Six (6) North, Range
Nineteen (19) East, City of Waukesha, bounded and described as follows: Commencing at
the northeast corner of Block Thirteen (13), Sunset Heights Subdivision, said point being
on the west line of South West Avenue; thence due south along the west line of South West
Avenue a distance of one thousand two hundred sixty and forty-eight hundredths (1260.48)
feet to the beginning of a curve; thence southeasterly a distance of one hundred twenty-
eight and sixty-two hundredths (128.62) feet along the arc of said curve, the chord of
which arc bears South four degrees twenty-two minutes fourteen seconds East (S.4°22'14"E.)
a distance of one hundred twenty-eight and forty-nine hundredths (128.49) feet to the point
of beginning of lands herein described; thence continuing southeasterly along the arc of
said curve a distance of three hundred eighty-six and thirty-four hundredths (386.34) feet,

(CONTINUE ON REVERSE SIDE)

Together with all and singular the hereditaments and appurtenances thereto belonging or in any wise appertaining,
and all the estate, right, title, interest, claim or demand whatsoever, of the said party of the first part, either in law or equity,
either in possession or expectancy of, in and to the above bargained premises, and their hereditaments and appurtenances.

To have and to hold the said premises as above described with the hereditaments and appurtenances, unto the said
party of the second part, and to its successors and assigns FOREVER.

And the said G. & W. CONSTRUCTION CORP.

party of the first part, for itself and its successors, does covenant, grant, bargain and agree to and with the said party of the
second part, its successors and assigns, that at the time of the enrolling and delivery of these presents it is well seized of
the premises above described, as of a good, sure, perfect, absolute and indefeasible estate of inheritance in the law, in fee
simple, and that the same are free and clear from all incumbrances whatever, excepting municipal and zoning
ordinances and recorded easements for public utilities; recorded building restrictions,

and that the above bargained premises in the quiet and peaceable possession of the said party of the second part, its
successors and assigns, against all and every person or persons lawfully claiming the whole or any part thereof, it will
forever WARRANT and DEFEND.

In Witness Whereof, the said G. & W. CONSTRUCTION CORP.
party of the first part, has caused these presents to be signed by Walter Guinther, its
President, and countersigned by Malcolm Guinther, its Secretary, at Waukesha
Wisconsin, and its corporate seal to be hereunto affixed, this 20th day of May, A. D.
1974.

SIGNED AND SEALED IN PRESENCE OF

G & W CONSTRUCTION CORP.
Walter Guinther, President
Malcolm Guinther, Secretary

REC'D MAY 23 1974

State of Wisconsin,

Waukesha County,

Personally came before me, this 20th day of May, A. D. 1974,
Walter Guinther, President, and Malcolm Guinther, Secretary
of the above named Corporation, to me known to be the persons who executed the foregoing instrument, and to me
known to be such President and Secretary of said Corporation, and acknowledged that they executed the foregoing instru-
ment as such officers as the deed of said Corporation, by its authority.

THIS INSTRUMENT WAS DRAFTED BY

Thomas R. Hamilton on behalf of
Wisconsin Natural Gas Company.

Notary Public, Waukesha County, Wis.
My commission expires 8-24-77

(Section 59.31 (1) of the Wisconsin Statutes provides that all instruments to be recorded shall have plainly printed or typewritten thereon
the names of the grantors, grantees, witnesses and notary. Section 59.313 similarly requires that the name of the person who, or govern-
mental agency which, drafted such instrument, shall be printed, typewritten, stamped or written thereon in a legible manner.)

882241

18644-26

(Cont'd)

the chord of which arc bears South twenty-one degrees fifty-two minutes fifteen seconds East ($S.21^{\circ}52'15''E.$) a distance of three hundred eighty-two and ninety-seven hundredths (382.97) feet to the end of said curve; thence South thirty-five degrees no minutes no seconds East ($S.35^{\circ}00'00''E.$) a distance of three hundred nineteen and sixty-one hundredths (319.61) feet to the beginning of another curve; thence due west a distance of nine hundred four and ninety-four hundredths (904.94) feet to the west line of Sunset Heights Subdivision; thence North no degrees six minutes no seconds East ($N.0^{\circ}06'00''E.$) along said west line a distance of six hundred seventeen and twenty-two hundredths (617.22) feet; thence due east a distance of five hundred seventy-seven and eighty-eight hundredths (577.88) feet to the point of beginning.

Tax Key # 9921.

12/11/11

1228 120

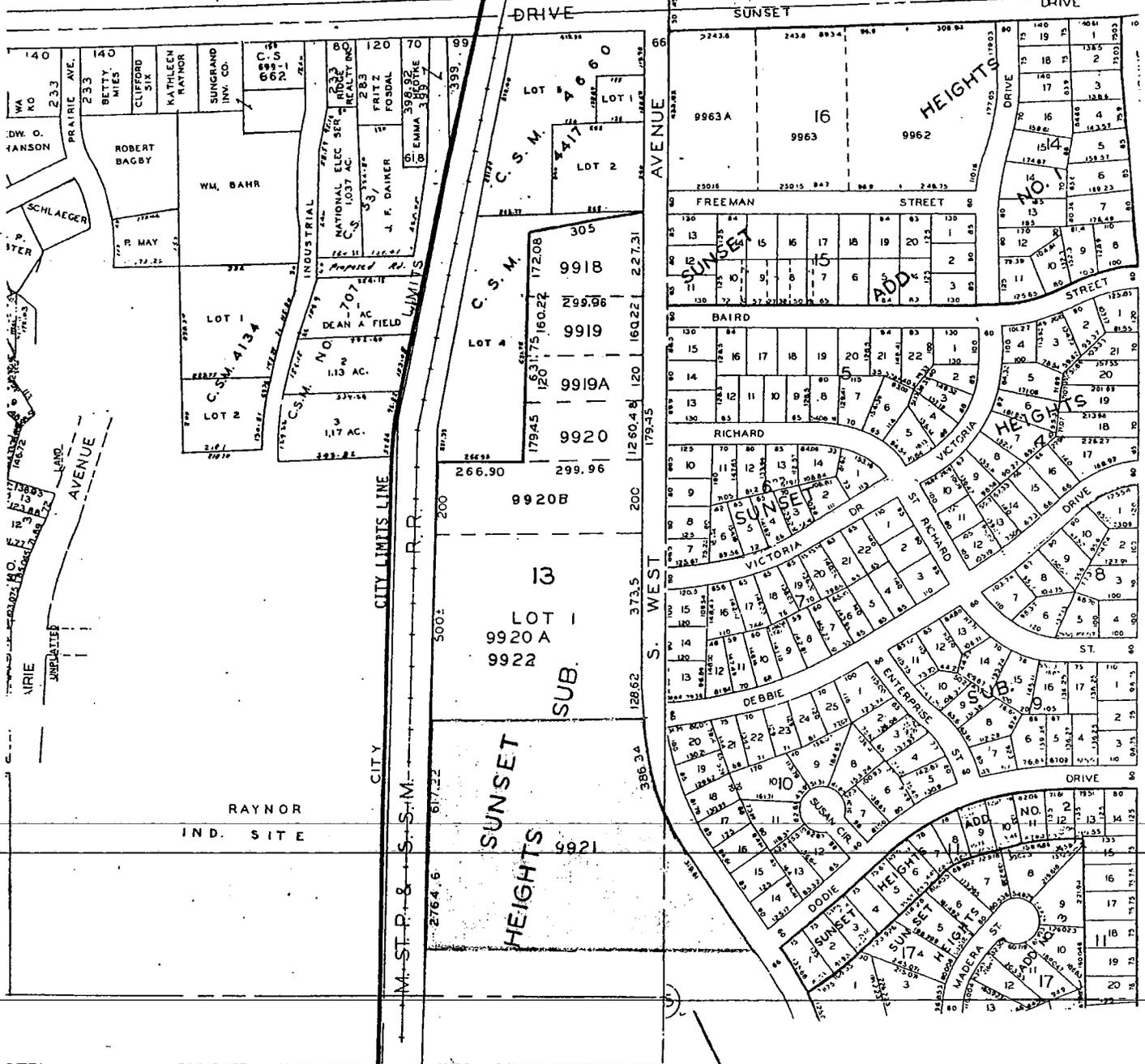
NW 1/4

NE 1/4

SCALE 1" = 400

CITY

LIMITS LINE



Tract 740

Original Sheet Dated: 4/30/86

Revisions:

REAL ESTATE DEPT. REDDI-REFERENCE INDEX

W.N.G. Co. FEE-OWNED PROP.

WAUKESHA

COUNTY

C/WAUKESHA

MAP NUMBER T. 6 N. R. 19 E. Sec. 15

**GIS REGISTRY INFORMATION
LEGAL DESCRIPTION STATEMENT**

Waukesha Gas Service Center – Oil Fill Room
1830 South West Avenue
Waukesha, Wisconsin
WDNR BRRTS #: 03-68-397106
WDNR FID#: 268184290

A legal description for the 10.06 acre property is included in the attached deed. The extent of the property is depicted on the attached map (parcel 9921). Residual soil impacts are located in the southwest portion of the Waukesha Gas Service Center building within the oil fill room.

The subject area, centered on WTM coordinates of 663635, 280297, is depicted on the attached WDNR Remediation and Redevelopment Sites Map. Residual DRO concentrations in soil exceeding the NR 720 RCL remain in an approximately 6 feet by 6 feet area within the oil fill room.

Trent Kohl

Signature

Trent Kohl

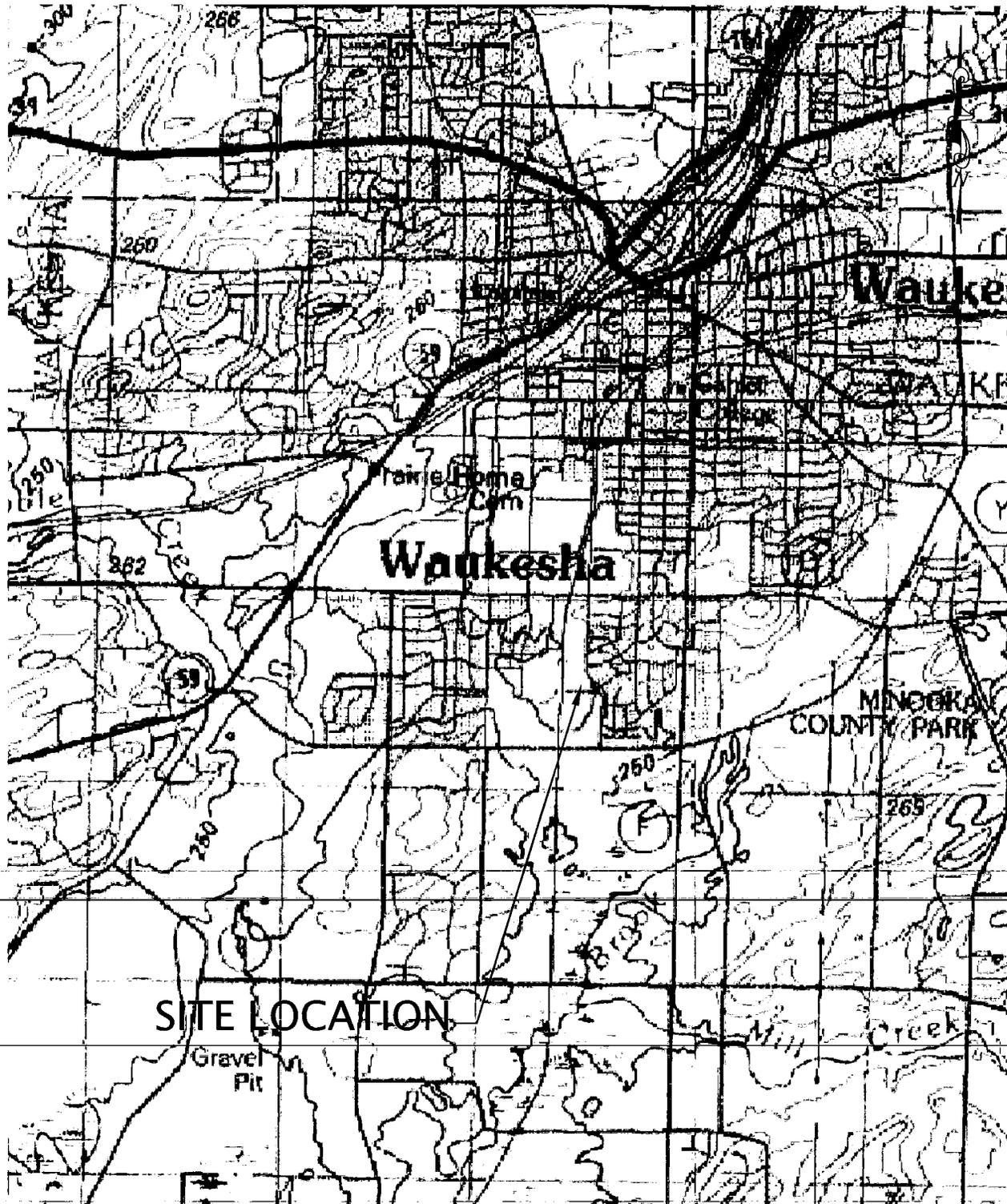
Name

Principal Engineer

Title

Oct 26, 2009

Date



SOURCE: USGS WAUKESHA, WISCONSIN QUADRANGLE MAP
 TOPOGRAPHIC MAP 1958
 PHOTOREVISED 1994

SCALE IN FEET

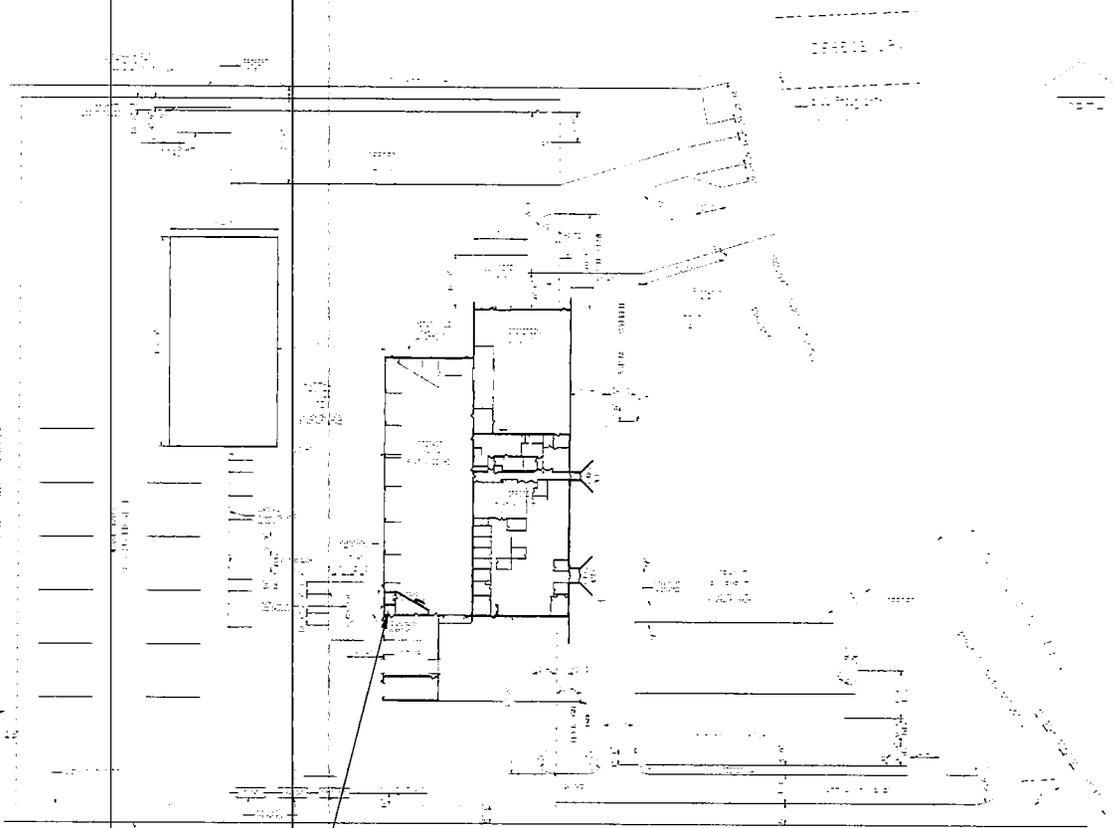


0 4,000'

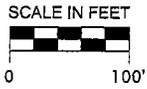
Geosyntec[®]
 consultants

CLIENT:	WE ENERGIES		
PROJECT:	WAUKESHA GAS SERVICE CENTER - OIL FILL ROOM 1830 SOUTH WEST AVENUE WAUKESHA, WISCONSIN		
TITLE:	SITE LOCATION MAP		
PROJECT: CHE8094FU	FIGURE NO.: 1	DRAWING NO.:	
DATE: 8/12/09	FILE NO. 09-06 layout 002	1	OF 3

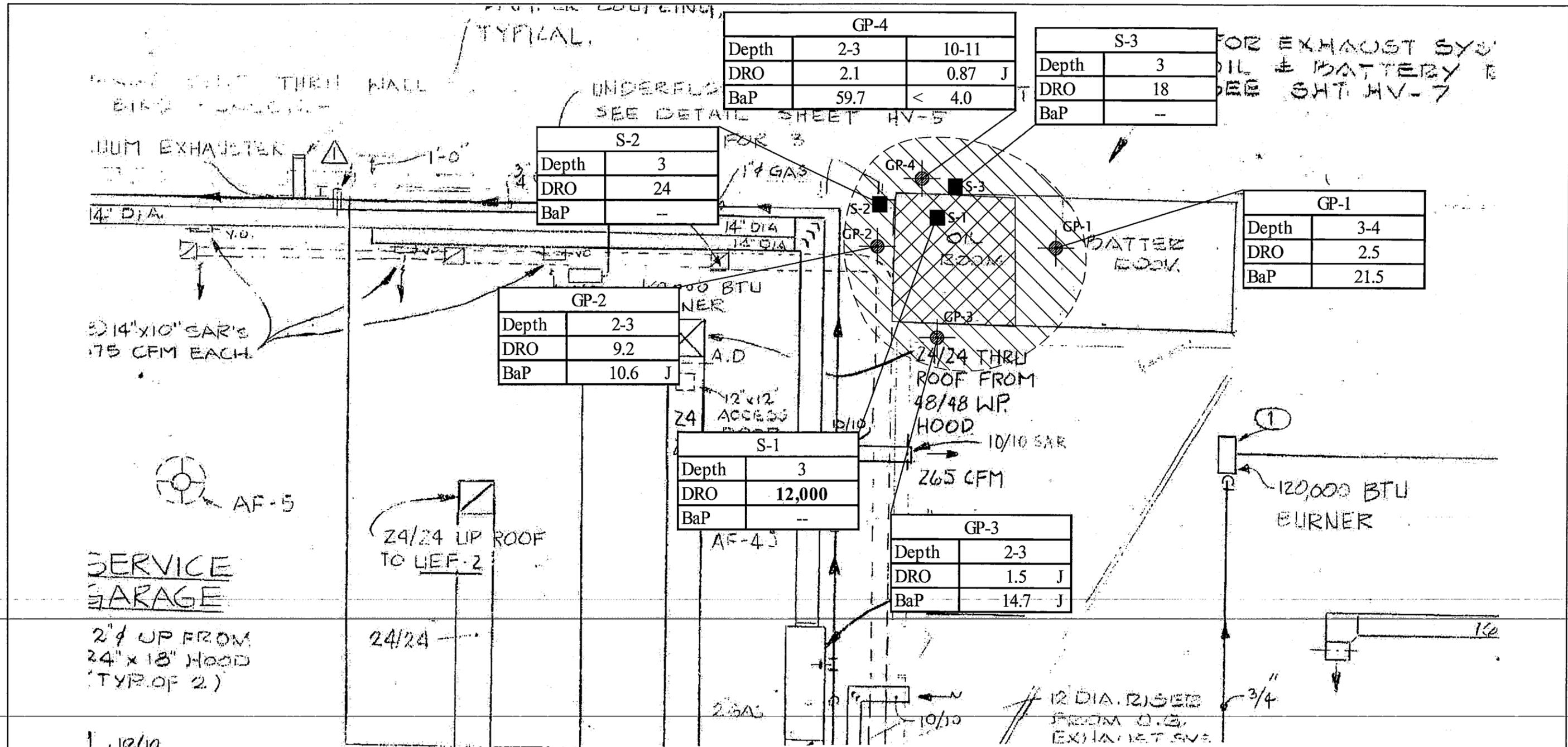
C:\p0000\090604\090604.dwg, 8/17/09 3:51:11 PM, ASB:PTC



OIL FILL ROOM



Geosyntec consultants		
CLIENT:	WE ENERGIES	
PROJECT:	WAUKESHA GAS SERVICE CENTER - OIL FILL ROOM 1830 SOUTH WEST AVENUE WAUKESHA, WISCONSIN	
TITLE:	SITE LAYOUT MAP	
PROJECT:	CHE806FLU	FIGURE NO.: 2
DATE:	8/12/09	FILE NO.: 09-081my0202
DRAWING NO.:	2 of 3	



NOTES

- BOLD** - CONCENTRATION EXCEEDS NR720 RCL
- - NOT ANALYZED
- DEPTH - FEET BELOW FLOOR SURFACE
- DRO - DIESEL RANGE ORGANICS (mg/kg)
- J - ESTIMATED CONCENTRATION ABOVE THE METHOD DETECTION LIMIT AND BELOW THE REPORTING LIMIT
- mg/kg - MILLIGRAMS PER KILOGRAM
- RCL - RESIDUAL CONTAMINANT LEVEL
- µg/kg - MICROGRAMS PER KILOGRAM
- BaP - BENZO(a)PYRENE (µg/kg); SELECTED AS REPRESENTATIVE OF PAH'S
- PAH's - POLYNUCLEAR AROMATIC HYDROCARBONS

LEGEND

- GP-4 (circle with dot) APPROXIMATE SOIL PROBE LOCATION
- S-3 (square) APPROXIMATE 2002 PIPE CLOSURE SITE ASSESSMENT SOIL SAMPLE LOCATION
- (Cross-hatched box) APPROXIMATE EXTENT OF RESIDUAL DRO CONCENTRATIONS > NR720 RCL
- (Diagonal hatched box) ESTIMATED EXTENT OF RESIDUAL PAH CONCENTRATIONS > NON-INDUSTRIAL NR720 RCL



Geosyntec
consultants

CLIENT: WE ENERGIES

PROJECT: WAUKESHA GAS SERVICE CENTER - OIL FILL ROOM
1830 SOUTH WEST AVENUE
WAUKESHA, WISCONSIN

TITLE: SOIL SAMPLING MAP

PROJECT: CHE8084FU FIGURE NO.: 3 DRAWING NO.: 3 OF 3
DATE: March 16, 2010 FILE NO.: ..WskGas003

TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
WAUKESHA GAS SERVICE CENTER - OIL FILL ROOM
 1830 South West Avenue
 Waukesha, Wisconsin
 Geosyntec Project No. CHE8094FU

PARAMETERS	SAMPLE IDENTIFICATION								RCL	
	S-1*	S-2*	S-3*	GP-1	GP-2	GP-3	GP-4		Direct Contact	Groundwater Protection
Depth	3	3	3	3-4	2-3	2-3	2-3	10-11	Industrial	
Date	11/20/02	11/20/02	11/20/02	6/10/09	6/10/09	6/10/09	6/10/09	6/10/09		
DRO (mg/kg)	12,000	24	28	2.5	9.2	1.5 J	2.1	0.87 J	---	100/250
PVOCs (ug/kg)										
Benzene	---	---	---	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	---	5.5
Ethylbenzene	---	---	---	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	---	2,900
Methyl-tert-butyl ether	---	---	---	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	---	---
Toluene	---	---	---	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	---	1,500
1,2,4-Trimethylbenzene	---	---	---	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	---	---
1,3,5-Trimethylbenzene	---	---	---	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	---	---
Xylenes (Total)	---	---	---	< 75.0	< 75.0	< 75.0	< 75.0	< 75.0	---	4,100
PAHs (ug/kg)										
Acenaphthene	---	---	---	1.0 J	< 1.0	< 0.95	< 0.99	< 1.0	60,000,000	38,000
Acenaphthylene	---	---	---	7.9 J	2.1 J	6.7 J	19.8	< 1.9	360,000	700
Anthracene	---	---	---	11.5 J	< 5.0	7.3 J	18.7	< 5.0	300,000,000	3,000,000
Benzo(a)anthracene	---	---	---	22.9	10.7 J	12.3 J	45.7	< 9.1	3,900	17,000
Benzo(a)pyrene	---	---	---	21.5	10.6 J	14.7 J	59.7	< 4.0	390	48,000
Benzo(b)fluoranthene	---	---	---	27.7	9.4 J	15.6 J	56.5	< 6.2	3,900	360,000
Benzo(g,h,i)perylene	---	---	---	19.2	7.9 J	11.8 J	46.6	< 4.6	39,000	6,800,000
Benzo(k)fluoranthene	---	---	---	25.4	9.9 J	16.5 J	55.3	< 6.8	39,000	870,000
Chrysene	---	---	---	27.5	11.3 J	18.0	54.4	< 3.8	390,000	37,000
Dibenzo(a,h)anthracene	---	---	---	5.9 J	< 5.1	< 4.8	14.8 J	< 5.1	390	38,000
Fluoranthene	---	---	---	49.8	23.5	26.4	62.9	< 1.2	40,000,000	500,000
Fluorene	---	---	---	1.9 J	< 1.0	< 0.93	1.5 J	< 1.0	40,000,000	100,000
Indeno(1,2,3-cd)pyrene	---	---	---	17.6	7.2 J	10.8 J	40.9	< 4.6	3,900	680,000
1-Methyl Naphthalene	---	---	---	< 1.9	< 2.0	< 1.9	< 2.0	< 2.0	70,000,000	23,000
2-Methyl Naphthalene	---	---	---	3.4 J	< 2.0	< 1.9	< 2.0	< 2.0	40,000,000	20,000
Naphthalene	---	---	---	1.4 J	3.5 J	< 1.3	< 1.3	< 1.3	110,000	400
Phenanthrene	---	---	---	24.7	13.0 J	8.8 J	20.8	< 2.2	390,000	1,800
Pyrene	---	---	---	32.9	16.3 J	20.8	52.8	< 1.1	30,000,000	8,700,000
Metals (mg/kg)										
Cadmium	---	---	---	0.043 J	0.045 J	0.063 J	0.047 J	0.049 J	510	---
Lead	---	---	---	5.9	3.3	5.0	4.1	2.7	500	---

Notes:

* - samples (S-1, S-2 and S-3) collected by Envirogen during the 2002 Pipe Closure Assessment

bold concentrations exceed groundwater protection RCL

--- - not analyzed or not established

DRO - diesel range organics (mg/kg)

J - estimated concentration above the detection limit and below the reporting limit

mg/kg - milligrams per kilogram

PAHs - polynuclear aromatic hydrocarbons

PVOCs - petroleum volatile organic compounds

RCL - NR 720 generic residual contaminant level

ug/kg - micrograms per kilogram