

Source Property Information

BRRTS #: (No Dashes)

ACTIVITY NAME:

PROPERTY ADDRESS:

MUNICIPALITY:

PARCEL ID #:

CLOSURE DATE:

FID #:

DATCP #:

PECFA#:

***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:

Groundwater Contamination > ES (236)

- Contamination in ROW
- Off-Source Contamination

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

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

- Contamination in ROW
- Off-Source Contamination

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

Continuing Obligations:

- N/A (Not Applicable)**
- Soil: maintain industrial zoning (220)**
*(note: soil contamination concentrations
between non-industrial and industrial levels)*
- Structural Impediment (224)**
- Site Specific Condition (228)**

- Cover or Barrier (222)**
*(note: maintenance plan for
groundwater or direct contact)*
- Vapor Mitigation (226)**
- Maintain Liability Exemption (230)**
*(note: local government unit or economic
development corporation was directed to
take a response action)*

Note: Comments will not print out.

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 #: 03-68-004070 (No Dashes) PARCEL ID #: OCOT 0495-988

ACTIVITY NAME: Former Osborne Residence

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)

RECEIVED

SEP 12 2012

SOURCE LEGAL DOCUMENTS

PECFA BUREAU

Deed: The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.

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

Certified Survey Map: A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

Figure #: Title:

Signed Statement: A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

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

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

Location Map: A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.

Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.

Figure #: 1 Title: Site Location Map

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

Figure #: 2 & 3 Title: Site Features Diagram & Site Features Detail and Sampling Locations Diagram

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 #: 4 Title: Soil Analytical Results and Isoconcentration Map

BRRTS #: 03-68-004070

ACTIVITY NAME: Former Osborne Residence

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: Cross Section Diagram A to 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 #: 6 Title: Groundwater Analytical Results and Isoconcentration Map

- 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 #: 7 Title: Groundwater Elevation Contour Map August 27, 2012

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 & 2 Title: Historic Soil Analytical Results & Soil 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 #: 3 Title: Groundwater Analytical Results

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

Table #: 4 Title: Groundwater Elevation Measurements

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 #: 03-68-004070

ACTIVITY NAME: Former Osborne Residence

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 Safety and Professional Services

141 NW Barstow St - 4th Floor
Waukesha, Wisconsin 53188-3789

Email: dps@wisconsin.gov
Web: <http://dps.wi.gov>

Governor Scott Walker

Secretary Dave Ross

October 1, 2012

Mr & Ms. Aari & Jodi Roberts
N7568 Little Coffee Rd.
Watertown, WI 53094

RE: Final Closure

PECFA # 53066-1032-08-A DNR BRRTS # 03-68-004070
James Osborne Residence, 7208 Hwy. 67, Oconomowoc

Dear Mr./Ms. Roberts:

The Wisconsin Department of Safety and Professional Services (DPS) has reviewed the request for case closure prepared by your consultant, ReadyEarth Consulting, Inc., for the site referenced above. DPS has determined that this site does not pose a significant threat to human health or the environment. No further investigation or remedial action is necessary.

This case is now listed as "closed" on the DPS database and will be included on the Department of Natural Resources (DNR) Geographic Information System (GIS) Registry of Closed Remediation Sites to address residual contamination. To review sites on the GIS Registry web page, visit <http://dnr.wi.gov/topic/Brownfields/rism.html>. If you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

Costs for sampling and excavation activities conducted after case closure are not eligible for PECFA reimbursement. However, if it is determined that any undisturbed remaining petroleum contamination poses a threat, the case may be reopened and further investigation or remediation may be required.

Timely filing of your final PECFA claim (if applicable) is encouraged. If your PECFA claim is not received within 120 days of the date of this letter, interest costs incurred after 60 days of the date of this letter will not be eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (262) 521-2447.

Sincerely,

Greg Michael
Hydrogeologist
PECFA Site Review Section

cc: ReadyEarth Consulting, Inc.



STATE OF WISCONSIN
Department of Safety and Professional Services

141 NW Barstow St. - 4th Floor
Waukesha, Wisconsin 53188-3789

Email: dspd@wisconsin.gov

Web: <http://dspd.wi.gov>

Governor Scott Walker

Secretary Dave Ross

September 21, 2012

Aari & Jodi Roberts
N7568 Little Coffee Rd.
Watertown, WI 53094

RE: Conditional Case Closure

PECFA # 53066-1032-08-A DNR BRRTS # 03-68-004070
James Osborne Residence, 7208 Hwy. 67, Oconomowoc

Dear Mr. & Ms. Roberts:

The Wisconsin Department of Safety and Professional Services (DPS) has reviewed the request for case closure prepared by your consultant, ReadyEarth Consulting, Inc., for the site referenced above. It is understood that residual soil and groundwater contamination remains on site. DPS has determined that this site does not pose a significant threat to human health and the environment. No further investigation or remedial action is necessary.

The following condition must be satisfied to obtain final closure:

- All the temporary monitoring wells must be properly abandoned within 60 days. The appropriate documentation forwarded to DPS at the letterhead address within 120 days of the date of this letter.

Information submitted with your closure request will be included on the Department of Natural Resources (DNR) GIS Registry of Closed Remediation Sites. All sites on the Registry can be viewed via the Remediation and Redevelopment (RR) Sites Map at <http://dnr.wi.gov/topic/Brownfields/rism.html>. Because residual contamination remains at the time of case closure, if you intend to construct or reconstruct a potable well on this property, you must get prior DNR approval.

All current and future owners and occupants of the property need to be aware that excavation of contaminated soil may pose a hazard. Costs for sampling and excavation activities conducted after the date of this letter are not eligible for PECFA reimbursement.

Thank you for your efforts to protect Wisconsin's environment. If you have any questions, please contact me in writing at the letterhead address or by telephone at (262) 521-2447.

Sincerely,


Greg Michael
Hydrogeologist
Site Review Section

cc: Readyearth Consulting, Inc



WC3463142-002

000250 HAR-75
DEED IN SATISFACTION
OF LAND CONTRACT

3463142
REGISTER'S OFFICE
WAUKESHA COUNTY, WI
RECORDED ON

03-07-2007 10:25 AM

MICHAEL J. HASSLINGER
REGISTER OF DEEDS

REC. FEE: 6.00
REC. FEE-CD: 3.00
REC. FEE-ST: 2.00
TRAN. FEE:
TRAN. FEE-STATE:
PAGES: 2

THIS DEED, is made between JAMES M. OSBORNE, (Grantor) and AARI K. ROBERTS and JODI M. ROBERTS, Husband and Wife as survivorship marital property, (Grantee). Witnesseth, that said Grantor, for valuable consideration, conveys to Grantee the following described real estate in Waukesha County, State of Wisconsin:

RESERVED FOR RECORDING DATA

RETURN TO:
AARI K. ROBERTS
N7568 LITTLE COFFEE ROAD
WATERTOWN, WI 53094

FEE
77.25 (11)
EXEMPT

Tax Key No. OCOT 0495-988

SEE ATTACHED LEGAL DESCRIPTION

This Deed is in satisfaction and release of a Land Contract between James M. Osborne, as Vendor, and Aari K. Roberts and Jodi M. Roberts, as Vendees, executed on August 29, 1996, and recorded in the Register of Deeds office for Waukesha County, on September 11, 1996, on Reel 2304, Image 712, as Document No. 2156017.

This is not homestead property.

Together with all and singular hereditaments and appurtenances therunto belonging. Grantor warrants that the title is good, indefeasible in fee simple, and free and clear of encumbrances, except: municipal and zoning ordinances and agreements entered under them, recorded easements for the distribution of utilities and municipal services, recorded building and use restrictions and covenants, obligations and encumbrances of Grantee, and general taxes, and Grantor will warrant and defend the same.

Dated this 20th day of February, 2007..

James M. Osborne
JAMES M. OSBORNE

ACKNOWLEDGEMENT

STATE OF Minnesota)
Dakota COUNTY) SS

Personally came before me this 20th day of February, 2007, the above named JAMES M. OSBORNE, to me known to be the person who executed the foregoing instrument and acknowledge

000251 MAR-78

LEGAL DESCRIPTION

The Southwest 1/4 of the Southwest 1/4 of Section 16, in Township 8 North, Range 17 East, in the Town of Oconomowoc, Waukesha County, Wisconsin.

Excepting therefrom that part conveyed to Waukesha County by Deed recorded June 28, 1923, in Volume 184 of Deeds on Page 126, as Document No. 128064.

Excepting therefrom the premises conveyed to Waukesha County by Deed recorded in Volume 907 of Deeds, Page 137, as Document No. 560067.

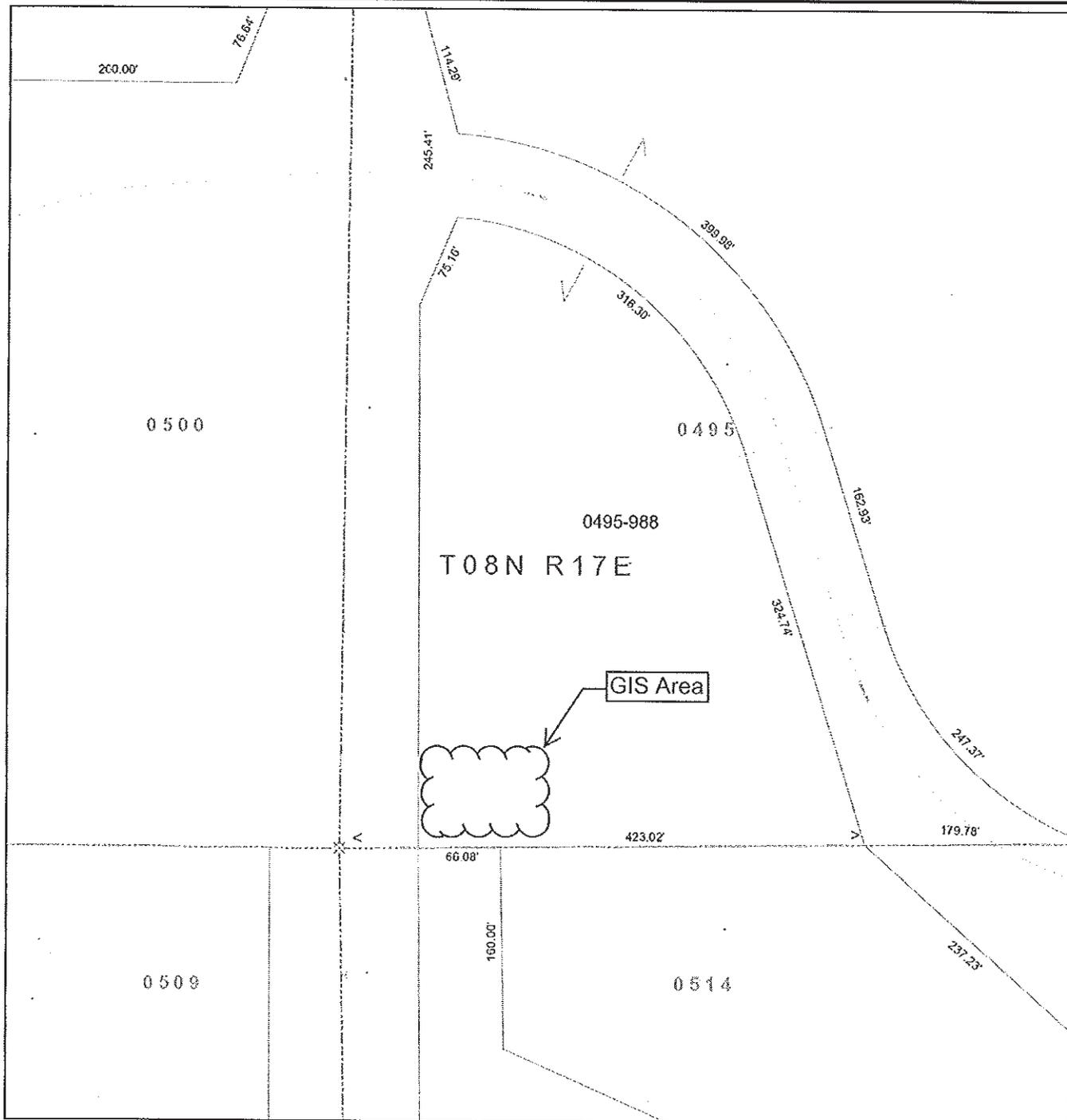
Also excepting the following tract of land in Waukesha County, State of Wisconsin, described as: That part of the Southwest 1/4 of Section 16, Township 8 North, Range 17 East, described as follows: Commencing at the Southwest corner of said Quarter-Section; thence South 89° 24' 17" East, 423.01 feet along the south line of said Quarter-Section and to the point of beginning; thence North 16° 13' 49" West, 324.74 feet to a point of curve having a radius of 268.56 feet; thence Northwesterly 316.30 feet along said curve to the left, said curve with a chord bearing of North 49° 58' 08" West, 298.33 feet; thence South 24° 39' 19" West, 75.16 feet to the east line of STH 67; thence North 01° 07' 54" East along the east line of said STH 67, 245.41 feet; thence South 34° 05' 16" East, 114.29 feet to the point of a curve having a radius of 334.56 feet; thence Southeasterly 399.98 feet, along said curve to the right, said curve with a chord bearing of South 50° 28' 45" East 376.58 feet; thence South 16° 13' 49" East, 162.93 feet to a point of curve having a radius of 268.56 feet; thence Southeasterly 247.37 feet along said curve to the left, said curve with a chord bearing of South 42° 36' 55" East, 238.71 feet and to the south line of said Quarter-Section; thence North 89° 24' 17" West, 179.78 feet to the point of beginning.

Also, all existing, future, or potential common law or statutory easements or rights of vehicular access between the right-of-way of the highway, currently designated as STH 67, and all of the abutting remaining real property of the owner, whether acquired by separate conveyance or otherwise where the following described real estate abuts on the said highway: The South 501.13 feet of the Southwest 1/4 of Section 16, Township 8 North, Range 17 East.



LAND INFORMATION SYSTEMS DIVISION

Waukesha County GIS Map



0 110.22 Feet

Notes:

The information and depictions herein are for informational purposes and Waukesha County specifically disclaims accuracy in this reproduction and specifically admonishes and advises that if specific and precise accuracy is required, the same should be determined by procurement of certified maps, surveys, plats, Flood Insurance Studies, or other official means. Waukesha County will not be responsible for any damages which result from third party use of the information and depictions herein, or for use which ignores this warning.



Printed: 9/10/2012

September 10, 2012

RE: GIS Statement Regarding the Former Osborne Residence Property Located at W379 N7208 Highway 67 in the Town of Oconomowoc, Wisconsin; ReadyEarth Project no. 12-0701; PECFA No. 53066-1032-08 DNR BRRTS Nos. 02-68-004070

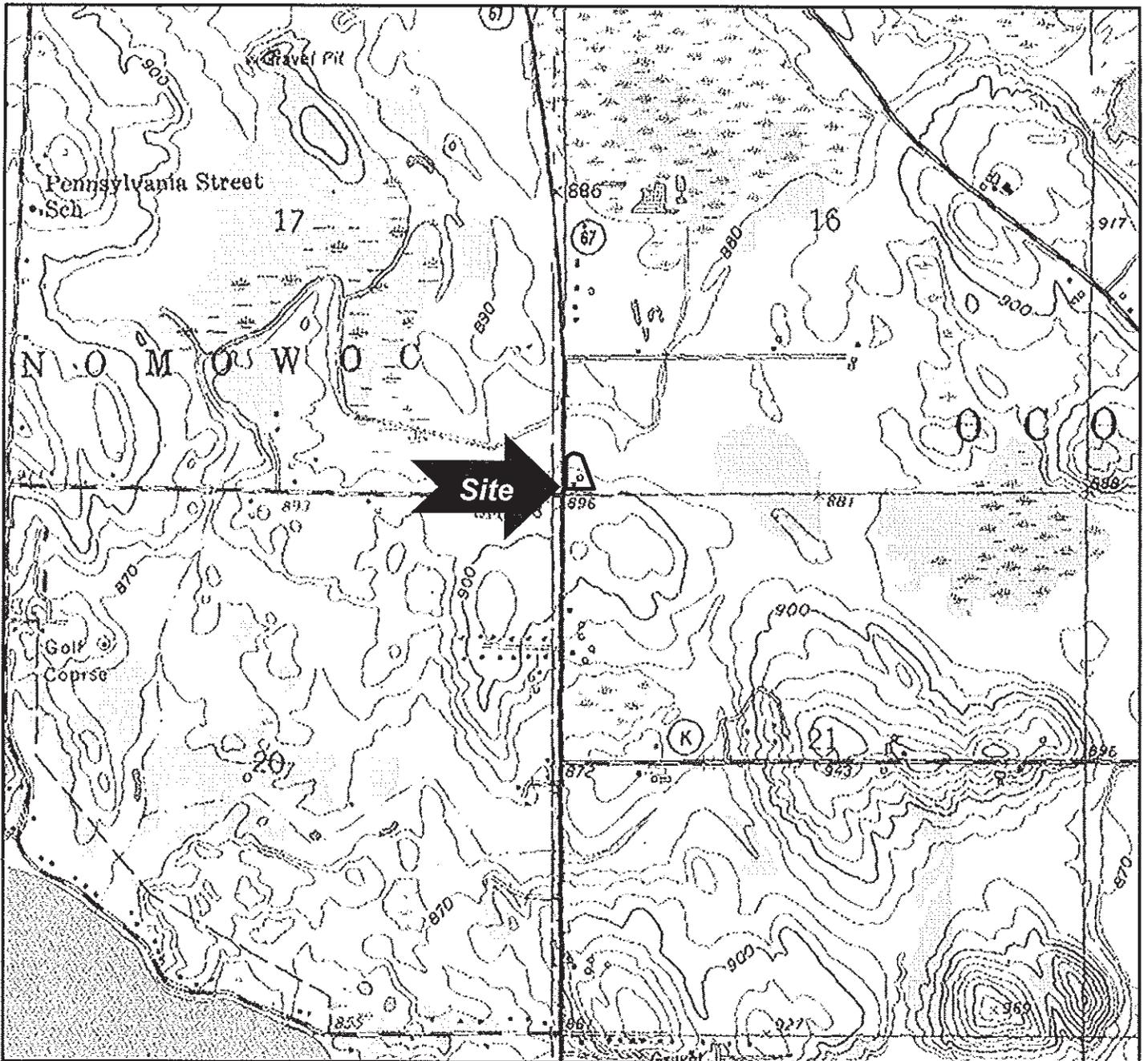
To Whom It May Concern,

I believe that the legal description on the attached "Deed in Satisfaction of Land Contract" recorded as Doc. No. 3463142 on 3/7/2007 at the Waukesha County Register of Deeds accurately describes the correct contaminated property.

Sincerely,

A handwritten signature in cursive script, appearing to read "Aari Roberts".

Aari Roberts
Property Owner



Scale



1" ~ 1,500



SW ¼ of the SW ¼ of Section 16, Township 8N, Range 17E

Stonebank & Ixonia Quadrangles (1959 - photorevised 1971)

Wisconsin – Waukesha Co.

7.5 Minute Series (Topographic)

United States Department of the Interior Geological Survey



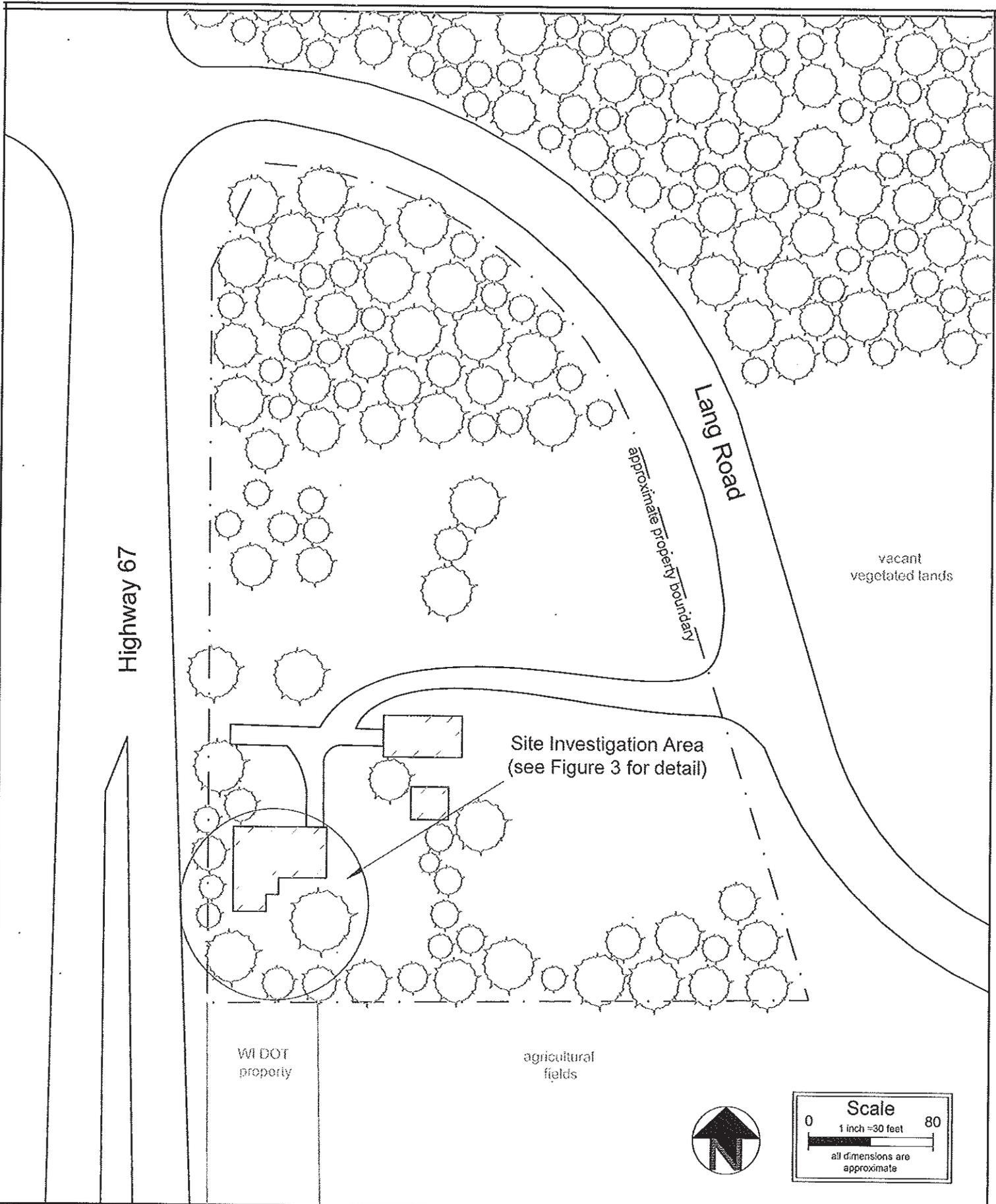
Figure 1

Site Location Map

Former Osborne Residence

W379 N7208 Highway 67

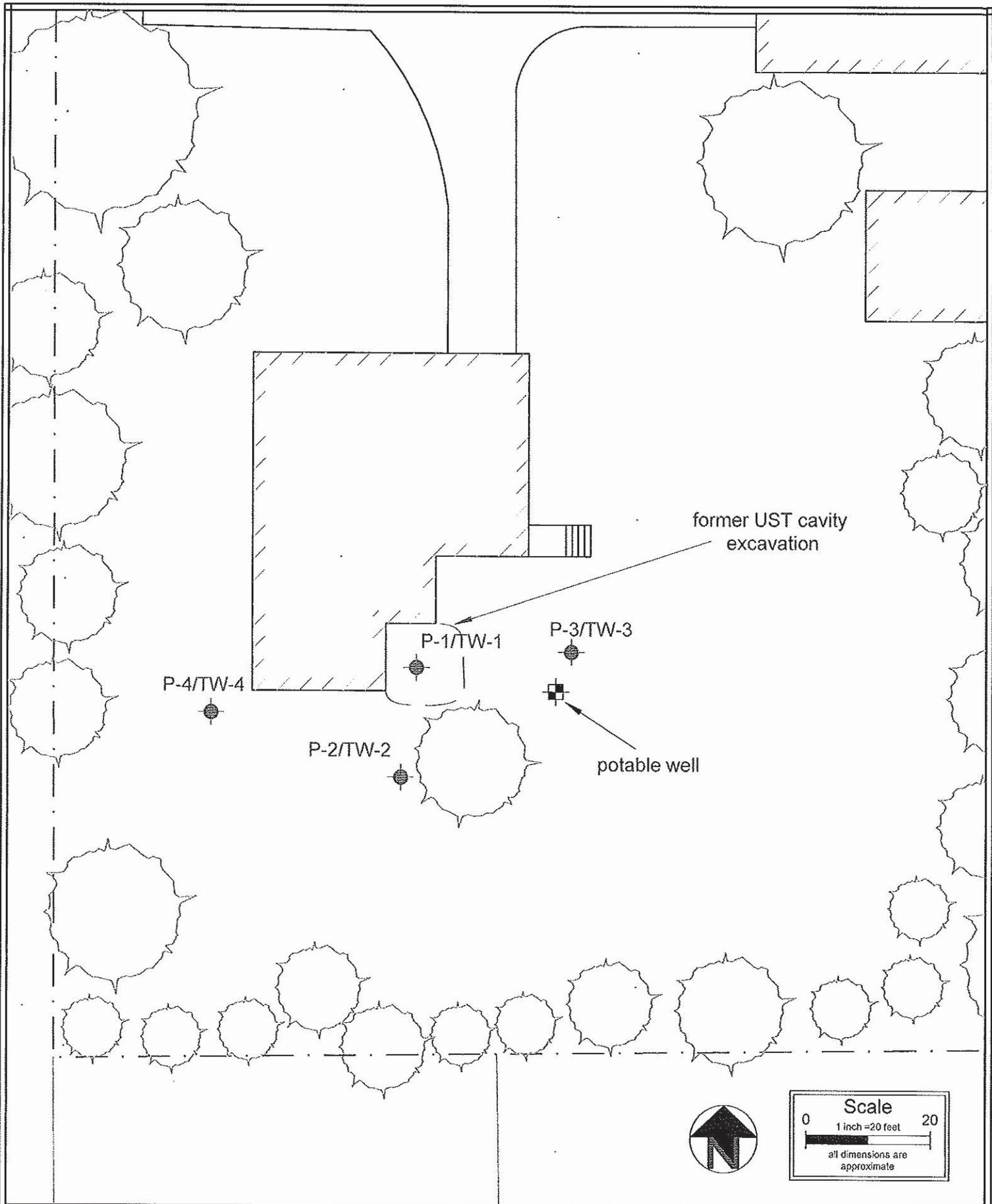
Town of Oconomowoc, Wisconsin



Drawing No.: 12-0701a
 DWG Date: 08-21-12
 Rev Date: 9-10-12
 Drafted by: JEB

Site Features Diagram
 Former Osborne Residence
 W379 N7208 Highway 67
 Oconomowoc, Wisconsin

Figure
 2



Drawing No.: 12-0701a

DWG Date: 08-21-12

Rev Date:

Drafted by: JEB

**Site Features Detail and
Sampling Locations Diagram**
Former Osborne Residence
W379 N7208 Highway 67
Oconomowoc, Wisconsin

Figure

3

P-1	14-16'	16-18'	28-30'
	8-16-12	8-16-12	8-16-12
E	83.1	6,370	<25.0
N	334	33,400	<25.0
TMBs	379	53,200	<50.0
X	<75.0	7,740	<75.0

P-3	16-18'
	8-16-12
E	<25.0
N	<25.0
TMBs	<50.0
X	<75.0

P-4	16-18'	20-22'
	8-16-12	8-16-12
E	<25.0	<25.0
N	<25.0	<25.0
TMBs	<50.0	<50.0
X	<75.0	<75.0

P-2	14-16'	18-20'	22-24'
	8-16-12	8-16-12	8-16-12
E	<25.0	<25.0	<25.0
N	<25.0	<25.0	<25.0
TMBs	<50.0	<50.0	<50.0
X	<75.0	<75.0	<75.0

approximate extent of soil impacts above RCLs

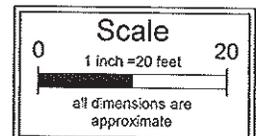
E = ethylbenzene (1,570)

N = naphthalene (658.7)

TMBs = combined trimethylbenzenes (1,379.3)

X = total xylenes (3,940)

Concentrations shown in **blue bold italics** exceed their respective residual contaminant levels (RCLs) shown above in parentheses. RCLs obtained from the DNR RCL spreadsheet based on the EPA soil screening calculator with Wisconsin defaults.



Drawing No.: 12-0701c

DWG Date: 09-10-12

Rev Date:

Drafted by: JEB

Soil Analytical Results and Isoconcentration Map
Former Osborne Residence
W379 N7208 Highway 67
Oconomowoc, Wisconsin

Figure

4

A

P-4/TW-4

g.s. elev
99.39

sandy silt
topsoil (ML)

3.3

19.9

2.3

2.0

1.9

2.5

1.9

1.9

1.6*

2.3

4.0*

3.0

3.4

clayey silt with
sand (ML)

silty sand (SM)

silty clay to
clayey silt (CL-ML)

silty sand (SM)

residence

P-1/TW-1

g.s. elev
100.01

2.4

1.1

2.1

2.6

79

149

165

276*

483*

383

126

63

67

16

12.1*

silty sand fill
(SM)

gravel fill (GW)

silty clay fill
(CL-ML)

clayey silt with
sand (ML)

silty fine
sand (SM)

well graded
sand (SW)

extent of soil
excavation

P-3/TW-3

g.s. elev
98.68

3.1

3.1

3.8

3.6

3.5

2.9

2.1

2.2

2.1*

2.7

3.9

2.5

2.1

sandy silt
topsoil (ML)

silty fine
sand (SM)

clayey silt
with sand (ML)

silty sand (SM)

silty clay to
clayey silt (CL-ML)

silty clay to
clayey silt (CL-ML)

A'

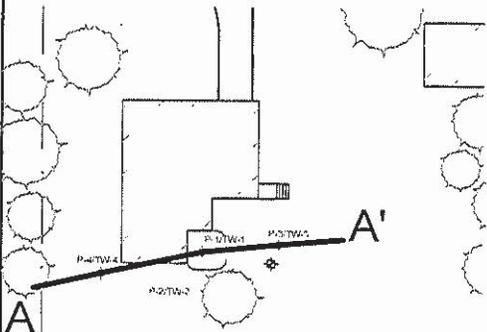
approximate property
boundary

Scale

horizontal scale: 1 in. = 10 ft.
vertical scale: 1 in. = 5 ft.



all dimensions area approximate



A



Drawing No.: 12-0701d

DWG Date: 09-10-12

Rev Date:

Drafted by: JEB

Cross Section Diagram A to A'
Former Osborne Residence
W379 N7208 Highway 67
Town of Oconomowoc, Wisconsin

Figure

5

TW-1		8-27-12
B		16.2
E		64.0
N		342
T		11.7
TMBs		416.4
X		261

TW-3		8-27-12
B		0.50 J
E		<0.41
N		<0.40
T		0.88 J
TMBs		<0.83
X		<1.3

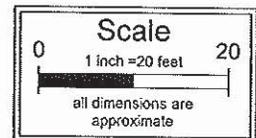
TW-4		8-27-12
B		<0.39
E		<0.41
N		<0.40
T		0.85 J
TMBs		<0.83
X		<1.3

TW-2		8-27-12
B		0.40 J
E		<0.41
N		1.3
T		0.70 J
TMBs		<0.83
X		<1.3

approximate extent of groundwater impacts above PALs

B = benzene (0.5) (5)
 E = ethylbenzene (140) (700)
 N = naphthalene (10) (100)
 T = toluene (160) (800)
 TMBs = combined trimethylbenzenes (96) (480)
 X = xylenes (400) (2,000)

Concentrations shown in **blue bold italics** exceed their respective preventive action levels (PALs) shown above in parentheses.
 Concentrations in **red bold** exceed their respective enforcement standards (ESs) shown above in parentheses.



Drawing No.: 12-0701e

DWG Date: 09-10-12

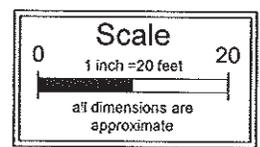
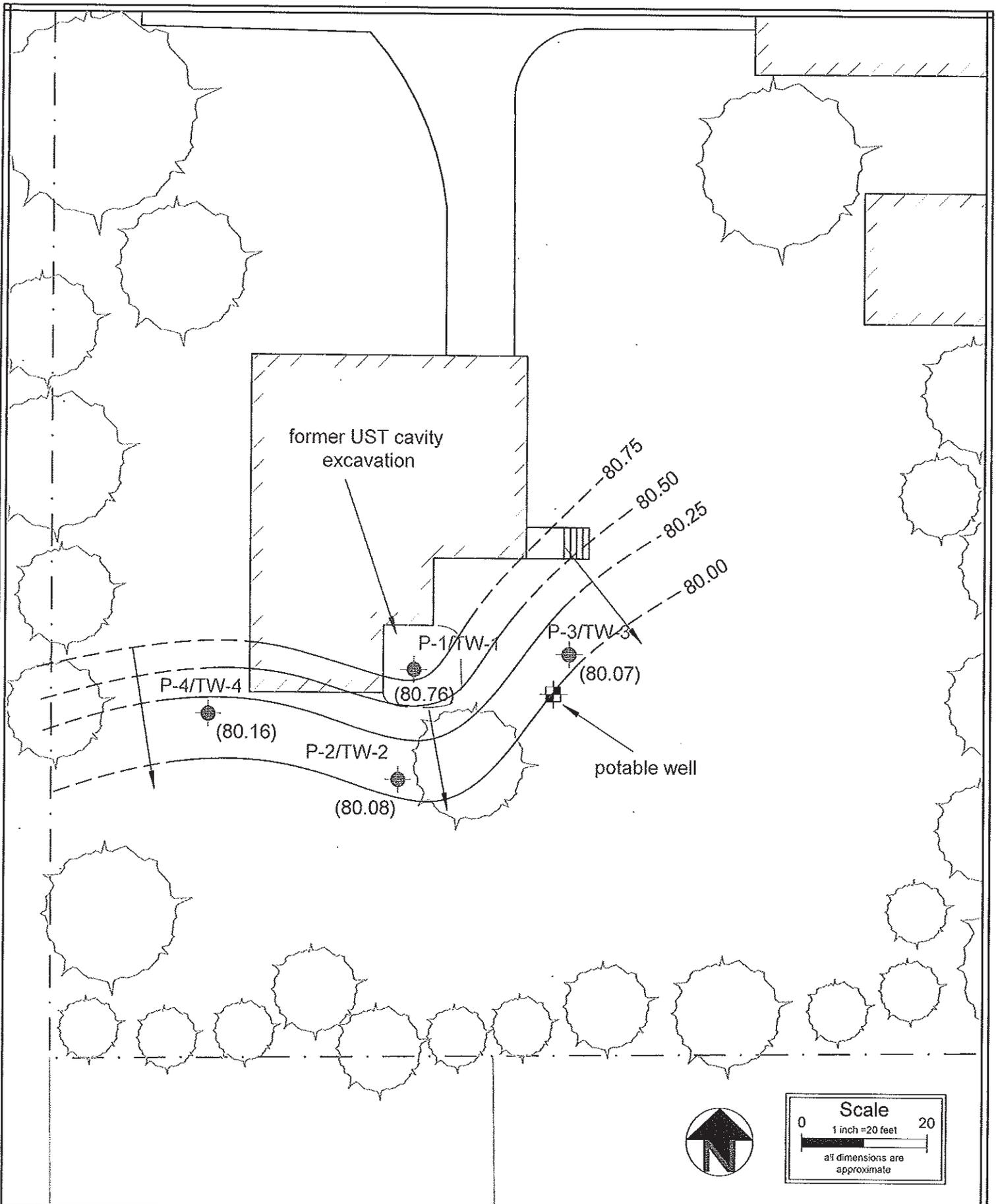
Rev Date:

Drafted by: JEB

**Groundwater Analytical Results
 and Isoconcentration Map**
 Former Osborne Residence
 W379 N7208 Highway 67
 Oconomowoc, Wisconsin

Figure

6



	Drawing No.: 12-0701f	Groundwater Elevation Contour Diagram August 27, 2012 Former Osborne Residence W379 N7208 Highway 67 Town of Oconomowoc, Wisconsin	Figure 7
	DWG Date: 09-05-12		
	Rev Date:		
	Drafted by: JEB		

TABLE 1
 Historic Soil Analytical Results
 Former Osborne Residence
 W379 N7208 Highway 67
 Town of Oconomowoc, Wisconsin

	Conf. Samples		Excavation Samples					Probehole Samples			DNR RCL GW path.	DNR RCL DC path.
	OWP	FL-7	S-8	N-6	E-8	W-8	FL-12	B-1	B-2	B-3		
Sample Date	4/4/94	5/23/94	5/23/94	5/23/94	5/23/94	5/23/94	5/23/94	7/29/94	7/29/94	7/29/94		
Sample Depth	2'	7'	8'	6'	8'	8'	12'	15-17'	15.5-17.5'	15-17'		
Diesel Range Organics (DRO) (mg/kg)	1,200	910	<5.4	3,800	<4.9	4,800	490	7,900	<4.8	<5.6	100	-
Petroleum Volatile Organic Compounds (PVOCs) (µg/kg)												
benzene	<1.4	<5.8	<1.1	<140	<1.1	<140	<5.7	<1,500	<1.0	<1.0	5.1	1,490
ethylbenzene	<1.4	53	<1.1	540	<1.1	1,200	<5.7	6,500	<1.0	<1.0	1,570	7,470
methyl-tert butyl ether (MTBE)	NA	<5.8	<1.1	<140	<1.1	<140	<5.7	<1,500	<1.0	<1.0	27	59,400
naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	658.7	5,510
toluene	<1.4	<5.8	<1.1	220	<1.1	420	<5.7	<1,500	<1.0	<1.0	1,107.20	818,000
1,2,4-trimethylbenzene	NA	>1,000	<1.1	>9,000	<1.1	>14,000	>350	47,000	<1.0	<1.0	1,379.30	89,800
1,3-5-trimethylbenzenes (TMBs)	NA	>600	<1.1	6,300	<1.1	>9,100	260	17,000	<1.0	<1.0		182,000
total xylenes	6.2	>650	<2.2	6,400	<2.1	12,000	160	36,000	<2.0	<2.0	3,940	258,000

- Notes:
1. Concentrations in *blue bold italics* exceed their respective RCLs for the groundwater pathway.
 2. Concentrations in *red bold* exceed their respective RCLs for the direct contact pathway (only within the top 4 feet bgs).
 3. "-" indicates that a RCL does not exist for the indicated parameter.
 4. NA = not analyzed for the indicated parameter.
 5. RCLs obtained from the DNR RCL spreadsheet based on the EPA on-line Soil Screening Calculator using Wisconsin default values.

TABLE 2
 Soil Analytical Results
 Former Osborne Residence
 W379 N7208 Highway 67
 Town of Oconomowoc, Wisconsin

Test Description	Site Investigation Samples									RCL GW path.	DNR RCL DC path.
	P-1			P-2			P-3	P-4			
Sample Date	8/16/12	8/16/12	8/16/12	8/16/12	8/16/12	8/16/12	8/16/12	8/16/12	8/16/12		
Sample Depth	14-16	16-18	28-30	14-16	18-20	22-24	16-18	16-18	20-22		
Petroleum Volatile Organic Compounds (PVOCs) (µg/kg)											
benzene	<25.0	<1,000	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<i>5.1</i>	1,490
ethylbenzene	83.1	6,370	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<i>1,570</i>	7,470
methyl-tert butyl ether (MTBE)	<25.0	<1,000	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<i>27</i>	59,400
naphthalene	334	33,400	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<i>658.7</i>	5,510
toluene	<25.0	<1,000	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<i>1,107.20</i>	818,000
1,2,4-trimethylbenzene	131	39,100	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<i>1,379.30</i>	89,800
1,3-5-trimethylbenzenes (TMBs)	248	14,100	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0		182,000
total xylenes	<75.0	7,740	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<75.0	<i>3,940</i>	258,000

Notes:

1. Concentrations in *blue bold italics* exceed their respective RCLs for the groundwater pathway.
2. Concentrations in *red bold* exceed their respective RCLs for the direct contact pathway (only within the top 4 feet bgs).
3. "-" indicates that a RCL does not exist for the indicated parameter.
4. NA = not analyzed for the indicated parameter.
5. RCLs obtained from the DNR RCL spreadsheet based on the EPA on-line Soil Screening Calculator using Wisconsin default values.

TABLE 3
 Groundwater Analytical Results
 Former Osborne Residence
 W379 N7208 Highway 67
 Town of Oconomowoc, Wisconsin

Sample Location	Sampling Date	PVOCs						
		benzene (µg/L)	ethyl-benzene (µg/L)	MTBE (µg/L)	naphthalene (µg/L)	toluene (µg/L)	comb. TMBs (µg/L)	total xylenes (µg/L)
TW-1	8/27/12	16.2	64.0	<0.76	342	11.7	416.4	261
TW-2	8/27/12	0.40 J	<0.41	<0.38	1.3	0.70 J	<0.83	<1.3
TW-3	8/27/12	0.50 J	<0.41	<0.38	<0.40	0.88 J	<0.83	<1.3
TW-4	8/27/12	<0.39	<0.41	<0.38	<0.40	0.85 J	<0.83	<1.3
NR 140 PALs (ppb)		0.5	140	12	10	160	96	400
NR 140 ESs (ppb)		5	700	60	100	800	480	2,000

Notes:

1. Only the typical PVOCs and VOCs are shown.
2. Concentrations in **blue bold italics** exceed their respective preventive action limits (PALs).
3. Concentrations in **red bold** exceed their respective enforcement standards (ESs)

TABLE 4
Groundwater Elevation Measurements
Former Osborne Residence
W379 N7208 Highway 67
Town of Oconomowoc, Wisconsin

Well Number	Date	¹ Total Well Depth	Ground Surface Elevation	¹ Top of Casing Elevation	² Depth to Water Below Ground	¹ Depth to Water Below Casing	Groundwater Elevation
TW-1	8/23/12	23.18	100.01	100.01	19.67	19.67	80.34
	8/27/12				19.25	19.25	80.76
TW-2	8/23/12	22.79	100.06	101.79	19.86	21.59	80.20
	8/27/12				19.98	21.71	80.08
TW-3	8/23/12	23.02	98.68	100.41	18.49	20.22	80.19
	8/27/12				18.61	20.34	80.07
TW-4	8/23/12	23.35	99.39	101.15	19.13	20.89	80.26
	8/27/12				19.23	20.99	80.16

Notes:

1. All measurements are presented in feet.
2. "¹" Measured from the north rim of the top of well casing.
3. "²" Calculated based on depth to water measurements and survey results.