State of Wisconsin
Department of Natural Resources
P.O. Box 7921, Madison, WI 53707-7921

GIS REGISTRY (Cover Sheet)

Form 4400-280 (R 6/13)

Source Property Information

CLOSURE DATE: 05/06/2013

BRRTS #: **02-41-548266**

FID #: 241257830

ACTIVITY NAME: NORTHWEST COATINGS CORP (FORMER)

DATCP #:

PROPERTY ADDRESS: 6870 S 13TH ST

PECFA#:

MUNICIPALITY: Oak Creek

PARCEL ID #: 7359023000

***WTM COORDINATES:**

X: **689067** Y: **274029**

** 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)

CONTINUING OBLIGATIONS

Contaminated Media for Residual Contamination:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [x] Off-Source Contamination

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

- [x] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [x] Off-Source Contamination

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

Site Specific Obligations:

- [x] Soil: maintain industrial zoning *(220)*

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

- [x] Structural Impediment *(224)*
- [ ] Site Specific Condition *(228)*
- [x] Cover or Barrier *(222)*
  - [x] Direct Contact
  - [x] Soil to GW Pathway
- [ ] Vapor Mitigation *(226)*
- [ ] 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 #: 02-41-548266 *(No Dashes)* PARCEL ID #: 735-9023

ACTIVITY NAME: Ashland Performance Materials Facility

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- [x] **Closure Letter**
- [x] **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)
- [x] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- [x] **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.*
- [x] **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 #: 1 **Title: Certified Survey Map - Ashland Performance Materials Facility and Ballew Site**
- [x] **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.

- [x] **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
  Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

  Figure #: 2 and 3 **Title: Site Location Map and Surrounding Area Map**
- [x] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 4 **Title: Site Layout Map**
- [x] **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 #: 5 **Title: Soil Concentration Map ***

BRRTS #: 02-41-548266 ACTIVITY NAME: Ashland Performance Materials Facility

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 #: N/A **Title:**

Figure #: N/A **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 Concentration Map ***

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

Figure #: 7 **Title: Groundwater Elevations September 22, 2010**

Figure #: N/A **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: Soil Sample Analytical Results and Residual Contaminant Level Screening**

☒ **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 #: 2,3,4 **Title: Summary of Groundwater VOC, SVOC and Metals Analytical Results (respectively)**

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

Table #: 5 **Title: Groundwater Elevations**

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 #: N/A **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 #: 02-41-548266 ACTIVITY NAME: Ashland Performance Materials Facility

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: 4 **

☒ **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 #: 1 **Title: Certified Survey Map - Ashland Performance Materials Facility and Ballew Site*****

☐ **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: N/A

Notes:
* Per the April 23, 2012 email to WDNR from Ashland, as agreed by Ashland and the WDNR in a conference call on October 28, 2011 (documented in the letter dated January 10, 2012), site conditions indicate that maps with a single isocontour line showing residual soil and groundwater constituents for the GIS Registry package requirements are not relevant to the Site. Instead, WDNR requested the attached soil concentration and groundwater concentration maps.
**Per the February 01, 2012 and May 10, 2012 emails to Ashland from WDNR, Ashland was required to send notification letters to two neighboring properties that may have contaminated soil and groundwater due to area-wide fill for which Ashland is not the responsible party. On September 17, 2012, Ashland sent the separate soil and groundwater notifications to the two property owners for a total of four notification letters.
***The Certified Survey Map No. 2310 for the Ballew Site is included in the Source Legal Documents as Figure 1. The deed for the Bliffert Lumber property does not reference a certified survey map or recorded plat map. On October 5, 2012, the Milwaukee County Register of Deeds confirmed that such documents do not exist for the property.

State of Wisconsin
Department of Natural Resources
http://dnr.wi.gov

Impacted Off-Source Property Information

Form 4400-246 (R 3/08)

This fillable form is intended to provide a list of information that must be submitted for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request (Section H). 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.

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BRRTS #: 02-41-548266

ACTIVITY NAME: NORTHWEST COATINGS CORP (FORMER)

ID	Off-Source Property Address	Parcel Number	WTM X	WTM Y
A	6826 S 13th St, Oak Creek, WI	7359998004/001/002	689069	274082
B	6881 S 10th St, Oak Creek, WI	7359024000	689100	274042
C				
D				
E				
F				
G				
H				
I				

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

May 6, 2013

Mr. Steven Roach
Ashland Inc.
Environmental Health and Safety, DS-4
5200 Blazer Parkway
Dublin, Ohio 43017

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

Subject: Final Case Closure with Continuing Obligations
Ashland Inc. / Former Northwest Coatings Corp, Milwaukee WI
BRRTS# 02-41-548266; FID# 241257830

Dear Roach:

The Department of Natural Resources (DNR) considers the Ashland, Inc. / Former Northwest Coatings Corp site closed, with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in the conditions of closure in this letter. Please read over this letter closely to ensure that you comply with all conditions and other on-going requirements. Provide this letter and any attached maintenance plan to anyone who purchases this property from you.

This final closure decision is based on the correspondence and data provided, and is issued under ch. NR 726, Wisconsin Administrative Code. The Southeast Region DNR Closure Committee reviewed the request for closure on December 12, 2012. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. A conditional closure letter was issued by the DNR on December 14, 2013, and documentation that the conditions in that letter were met was received on March 20, 2013.

The site is used to manufacture water-based adhesive and coatings. Site Materials include various forms of rubber, latex, adhesive, powders, solvents, oils and related materials. Site investigations were performed to support due diligence related to the property transaction between Northwest Coatings, LLC and Ashland Inc. Soil impacts include semi-volatile organic compounds (SVOC) and metals compounds, while groundwater contains few low-level volatile organic compounds (VOCs). Long-term groundwater monitoring was performed and the site was capped with asphalt. Closure is based on the site remaining zoned for industrial use.

Continuing Obligations

The continuing obligations for this site are summarized below. Further details on actions required are found in the section Closure Conditions.

- Groundwater contamination is present above ch. NR 140, Wis. Adm. Code enforcement standards.
- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the DNR must approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed.
- Before the land use may be changed from industrial to non-industrial, additional environmental work must be completed.

GIS Registry

This site will be listed on the Remediation and Redevelopment Program's internet accessible Geographic Information System (GIS) Registry, to provide notice of residual contamination and of any continuing obligations. DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS Registry, in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, complete and submit Form 3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at http://dnr.wi.gov/topic/wells/documents/3300254.pdf or at the web address listed below for the GIS Registry.

All site information is also on file at the Southeast Region DNR office, at 2300 North Martin Luther King, Jr. Drive, Milwaukee, Wisconsin. This letter and information that was submitted with your closure request application, including the maintenance plan, will be included on the GIS Registry in a PDF attachment. To review the site on the GIS Registry web page, visit the RR Sites Map page at http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2.

Prohibited Activities

Certain activities are prohibited at closed sites because maintenance of a barrier is intended to prevent contact with any remaining contamination. When a barrier is required, the condition of closure requires notification of the DNR before making a change, in order to determine if further action is needed to maintain the protectiveness of the remedy employed. The following activities are prohibited on any portion of the property where the surface pavement asphalt cap is required, as shown on the attached **Figure 3 Surface Pavement Asphalt Cap Map**, unless prior written approval has been obtained from the DNR:

- removal of the existing barrier;
- replacement with another barrier;
- excavating or grading of the land surface;
- filling on covered or paved areas;
- plowing for agricultural cultivation;
- construction or placement of a building or other structure;
- changing the use or occupancy of the property to a residential exposure setting, which may include certain uses, such as single or multiple family residences, a school, day care, senior center, hospital, or similar residential exposure settings;

Closure Conditions

Compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. DNR staff will conduct periodic prearranged inspections to ensure that the conditions included in this letter and the attached maintenance plans are met. If these requirements are not followed, the DNR 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.

Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code)
Groundwater contamination greater than enforcement standards is present on this contaminated property, as shown on the attached **Figure 6 Groundwater Concentration Map**. The potential for migration of groundwater contamination onto off-site properties exists. Property owners were notified of the potential for groundwater contamination. If you intend to construct a new well, or reconstruct an existing well, you'll need prior DNR approval.

Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.)
Soil contamination remains at various locations across the site, as indicated on the attached **Figure 5 Soil Concentration Map**. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if 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.

Cover or Barrier (s. 292.12 (2) (a), Wis. Stats.)
The surface pavement asphalt cap that exists in the specific location shown on the attached **Figure 3 Surface Pavement Asphalt Cap Map** shall be maintained in compliance with the attached **CAP Maintenance Plan** in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

In this case, the building is also considered a structural impediment, and additional investigation and response requirements apply as described in the section titled Structural Impediments.

A cover or barrier for industrial land uses, or certain types of commercial land uses may not be protective if use of the property were to change such that a residential exposure would apply. This may include, but is not limited to single or multiple family residences, a school, day care, senior center, hospital or similar settings. Before using the property for such purposes, you must notify the DNR to determine if additional response actions are warranted.

A request may be made to modify or replace a cover or barrier. The replacement or modified cover or barrier must be protective of the revised use of the property, and must be approved in writing by the DNR prior to implementation.

The attached **Exhibit B - Barrier Inspection and Maintenance Log** are to be kept up-to-date and on-site. Submit the inspection log to the DNR only upon request.

Structural Impediments (s. 292.12 (2) (b), Wis. Stats.)
The existing site building as shown on the attached **Figure 2 Site Layout Map with Sample Locations Map**, made complete investigation and/or remediation of the soil contamination on this property impracticable. If the structural impediment is to be removed, the property owner shall notify the DNR before removal and conduct an investigation of the degree and extent of SVOC and metals contamination below the structural impediment. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

Industrial Site-Specific Soil Standards (s. NR 726.05 (8) (b) 1., Wis. Adm. Code)
Soil contamination remains at various locations across the site, as shown on the attached **Figure 5 Soil Concentration Map.** Samples contained SVOC and metals compounds including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and ideno(1,2,3-cd)pyrene in concentrations that met the site-specific industrial soil standards developed for this site.

This property may not be used or developed for a residential, commercial, agricultural or other non-industrial use, unless prior written approval has been obtained from the DNR. An investigation and remedial action to meet applicable soil cleanup standards may be required at that time.

General Wastewater Permits for Construction Related Dewatering Activities

The DNR's Water Quality Program regulates point source discharges of contaminated water, including discharges to surface waters, storm sewers, pits, or to the ground surface. This includes discharges from construction related dewatering activities, including utility and building construction.

If you or any other person plan to conduct such activities, you or that person must contact that program, and if necessary, apply for the necessary discharge permit. Additional information regarding discharge permits is available at http://dnr.wi.gov/topic/wastewater/GeneralPermits.html. If residual soil or groundwater contamination is likely to affect water collected in a pit/trench that requires dewatering, a general permit for Discharge of Contaminated Groundwater from Remedial Action Operations may be needed. If water collecting in a pit/trench that requires dewatering is expected to be free of pollutants other than suspended solids and oil and grease, a general permit for Pit/Trench Dewatering may be needed.

The following DNR fact sheet, "Continuing Obligations for Environmental Protection", RR-819, was included with this letter, to help explain a property owner's responsibility for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at http://dnr.wi.gov/files/PDF/pubs/rr/RR819.pdf.

Please send written notifications in accordance with the above requirements to Southeast Region RR Program Office at 2300 North Martin Luther King Jr. Drive in Milwaukee, Wisconsin, to the attention of the Environmental Program Assistant.

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

The DNR 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 Eric Amadi at 414-263-8639.

Sincerely,

Pamela A. Mylotta, Team Supervisor
Southeast Region Remediation & Redevelopment Program

Attachments:
- Figure 3 Surface Pavement Asphalt Cap Map
- Figure 6 Groundwater Concentration Map
- Figure 5 Soil Concentration Map
- CAP Maintenance Plan
- Exhibit B - Barrier Inspection and Maintenance Log
- Figure 2 Site Layout Map with Sample Locations Map
- RR 819

Cc: Andy Patz, EHS Support, 133 Southern Farms Road, Worthington, PA 16262
Kristan Advekian, EHS Support, 5322 Leather Stocking Lane, Stone Mountain GA, 30087
Bliffert Lumber & Fuel Company, 6826 South 13th Street, Oak Creek, WI 53154
Milwaukee County, 6826 South 13th Street, Oak Creek, WI 53154
Ballew LLC, 6881 South 10th Street, Oak Creek, WI 53154

LEGEND

- SOIL/GROUNDWATER SAMPLE LOCATION (Aug. 2006)
- SOIL SAMPLE LOCATION (Aug. 2006)
- SOIL BORING LOCATION (June 2007)
- GROUNDWATER MONITORING WELL LOCATION
- SURFACE PAVEMENT ASPHALT CAP AREA

N

SCALE IN FEET

0 30

REVISIONS			
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:

EHS Support consider it done
www.ehs-support.com

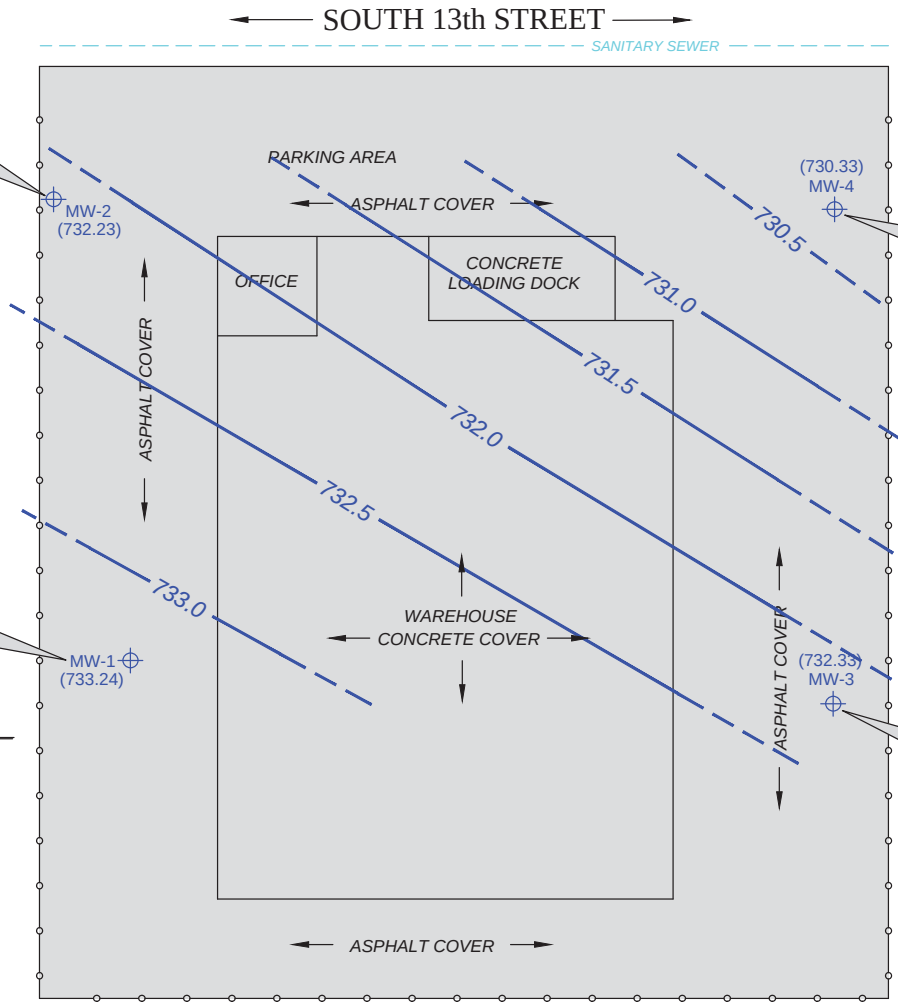
6870 S. 13th Street
OAK CREEK, WI

FIGURE 3
SURFACE PAVEMENT ASPHALT CAP

Drawn By:	MDO	Date Drawn:	02/10/2011
Reviewed By:	KA	Date Reviewed:	02/2011
Scale:	1" = 30'	Plot Date:	02/2011
Project Name:	Ashland Performance Materials Facility		

MW-2						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	*2.0 J*	<1.3	*2.4 J*	<1.4
Arsenic	10	1	*5.3 J*	*2.7 J*	*5.1 J*	*5.0 J*
Cadmium	5	0.5	<0.45	<0.45	<0.26	<0.26
Iron	300	150	21.2 J	119	**588**	**1,240**
Lead	15	1.5	*1.5 J*	<1.3	<1.7	<1.7
Manganese	50	25	46.4	**247**	**152**	**96.7**
Nickel	100	20	5.7 J	6.8 J	6.8 J	5.5 J
Thallium	2	0.4	**2.5 J**	**3.6 J**	*1.4 J*	**2.5 J**
VOCs						
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41
MTBE	60	12	*29.5*	*22.4*	*12.2*	8.4
SVOCs						
Naphthalene	100	10	<0.68	<0.70	<0.70	<0.77

MW-1						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	<1.3	<1.3	*2.4 J*	<1.4
Arsenic	10	1	*3.3 J*	*2.8 J*	*1.9 J*	*2.6 J*
Cadmium	5	0.5	<0.45	**6.0**	*2.3 J*	0.42 J
Iron	300	150	118	<3.7	**488**	*223*
Lead	15	1.5	*1.7 J*	<1.3	<1.7	<1.7
Manganese	50	25	**216**	**228**	**418**	**335**
Nickel	100	20	8.5 J	9.7 J	6.8 J	7.5 J
Thallium	2	0.4	**2.3 J**	**2.2 J**	*1.5 J*	**2.9 J**
VOCs						
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41
MTBE	60	12	1.4	1.5	1.5	1.2
SVOCs						
Naphthalene	100	10	<0.72	<0.69	<0.70	<0.76



MW-4						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	*1.5 J*	<1.3	2.1 J	**7.5 J**
Arsenic	10	1	2.1 J	*3.4 J*	*1.7 J*	**17.3 J**
Cadmium	5	0.5	<0.45	<0.45	<0.26	<0.26
Iron	300	150	<3.7	<3.7	51.2	64.3 J
Lead	15	1.5	*2.6 J*	<1.3	<1.7	<1.7
Manganese	50	25	**57.1**	**77.6**	**82.2**	**70.9**
Nickel	100	20	14.1	*23.5*	*21.0*	7.2 J
Thallium	2	0.4	**2.1 J**	*1.9 J*	<1.3	*1.9 J*
VOCs						
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41
MTBE	60	12	<0.61	1.1	1.1	0.74 J
SVOCs						
Naphthalene	100	10	<0.68	<0.70	<0.68	<0.70

MW-3						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	*3.5 J*	*3.3 J*	*2.5 J*	<1.4
Arsenic	10	1	*7.9 J*	*6.9 J*	**15.0 J**	*2.2 J*
Cadmium	5	0.5	<0.45	<0.45	<0.26	<0.26
Iron	300	150	**590**	11.4 J	**2,780**	105
Lead	15	1.5	1.4 J	<1.3	<1.7	<1.7
Manganese	50	25	**226**	8.1	**821**	**103**
Nickel	100	20	1.3 J	2.1 J	2.3 J	*20.3*
Thallium	2	0.4	**2.8 J**	**3.2 J**	<1.3	**2.2 J**
VOCs						
Benzene	5	0.5	*0.56 J*	*1.4*	*1.5*	*2.0*
MTBE	60	12	<0.61	<0.61	<0.61	<0.61
SVOCs						
Naphthalene	100	10	*18.5*	*31.6*	*41.7*	*46.9*

LEGEND

- GROUNDWATER MONITORING WELL LOCATION
- SURFACE PAVEMENT CAP
- (733.24) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 732.0 — GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL. DASHED WHERE INFERRED.
- J ESTIMATED VALUE
- ug/L MICROGRAMS PER LITER
- < INDICATES RESULT BELOW LABORATORY REPORTING LIMIT
- ES ENFORCEMENT STANDARD (ug/L)
- PAL PREVENTIVE ACTION LIMIT (ug/L)

NOTE:
ALL VOC, SVOC AND METAL CONCENTRATIONS ARE PRESENTED IN ug/L.

METALS EXCEEDING ESs SUGGEST REGIONAL CONDITIONS RATHER THAN SITE IMPACT OR SOURCE; THEREFORE, AN ISOCONTOUR IS NOT PROVIDED

N

SCALE IN FEET
0 30

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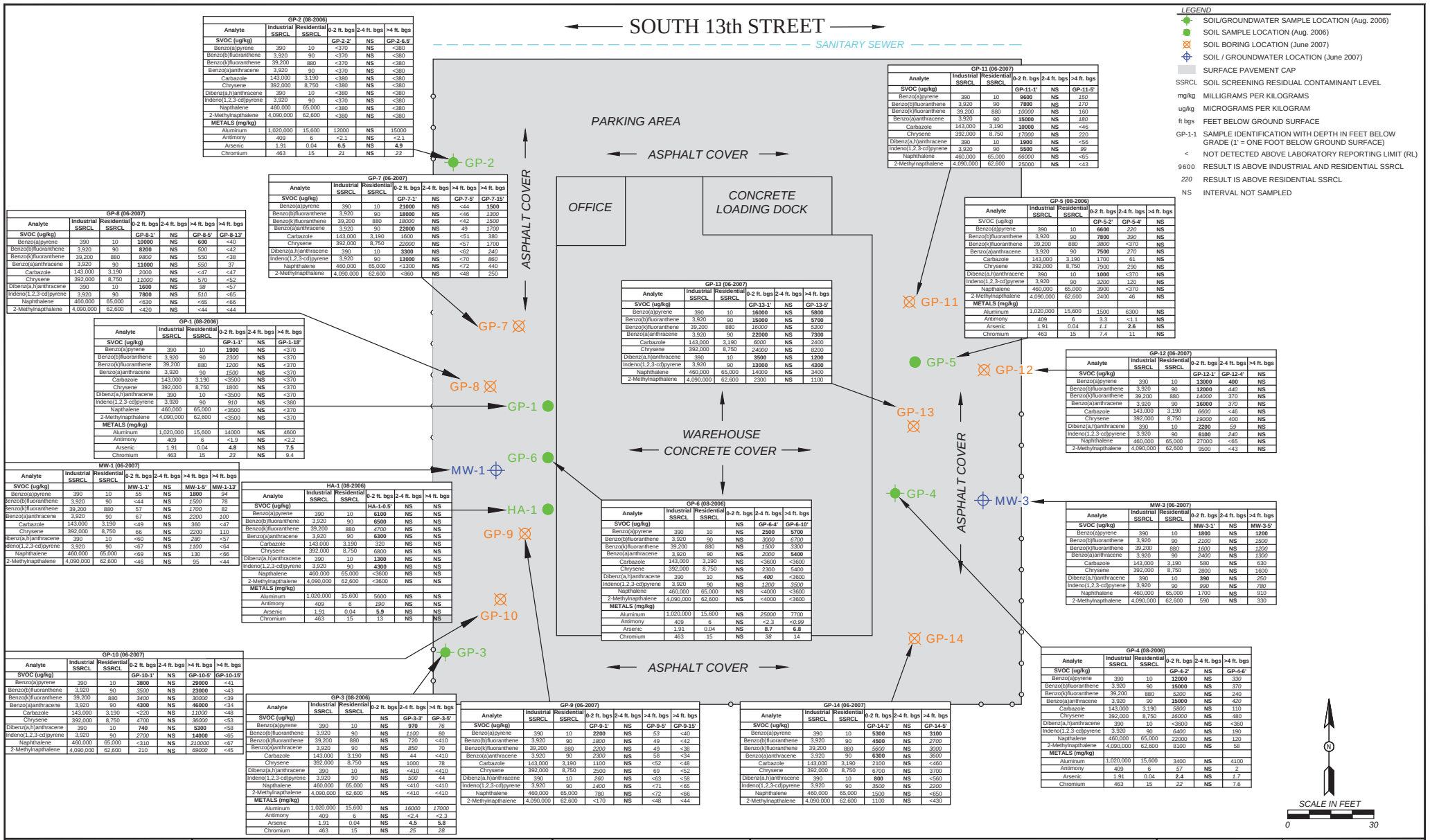
REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

6870 S. 13th Street
OAK CREEK, WISCONSIN

FIGURE 6
GROUNDWATER CONCENTRATION MAP
SEPTEMBER 2010

Drawn By:	MDO	Date Drawn:	11/15/2011
Reviewed By:	KA	Date Reviewed:	11/2011
Scale:	1" = 30'	Plot Date:	11/2011
Project Number.:			



GP-2 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-2-2'**	**NS**	**GP-2-6.5'**
Benzo(a)pyrene	390	10	<370	**NS**	<380
Benzo(b)fluoranthene	3,920	90	<370	**NS**	<380
Benzo(k)fluoranthene	39,200	880	<370	**NS**	<380
Benzo(a)anthracene	3,920	90	<370	**NS**	<380
Carbazole	143,000	3,190	<380	**NS**	<380
Chrysene	392,000	8,750	<380	**NS**	<380
Dibenz(a,h)anthracene	390	10	<380	**NS**	<380
Indeno(1,2,3-cd)pyrene	3,920	90	<370	**NS**	<380
Napthalene	460,000	65,000	<380	**NS**	<380
2-Methylnapthalene	4,090,000	62,600	<380	**NS**	<380
METALS (mg/kg)					
Aluminum	1,020,000	15,600	12000	**NS**	15000
Antimony	409	6	<2.1	**NS**	<2.1
Arsenic	1.91	0.04	**6.5**	**NS**	**4.9**
Chromium	463	15	*21*	**NS**	*23*

GP-7 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-7-1'**	**NS**	**GP-7-5'**	**GP-7-15'**
Benzo(a)pyrene	390	10	**21000**	**NS**	<44	**1500**
Benzo(b)fluoranthene	3,920	90	**18000**	**NS**	<46	*1300*
Benzo(k)fluoranthene	39,200	880	*18000*	**NS**	<42	*1500*
Benzo(a)anthracene	3,920	90	**22000**	**NS**	*49*	*1700*
Carbazole	143,000	3,190	1600	**NS**	<51	380
Chrysene	392,000	8,750	*22000*	**NS**	<57	1700
Dibenz(a,h)anthracene	390	10	**3300**	**NS**	<62	*240*
Indeno(1,2,3-cd)pyrene	3,920	90	**13000**	**NS**	<70	*860*
Napthalene	460,000	65,000	<1300	**NS**	<72	*440*
2-Methylnapthalene	4,090,000	62,600	<860	**NS**	<48	250

GP-8 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-8-1'**	**NS**	**GP-8-5'**	**GP-8-13'**
Benzo(a)pyrene	390	10	**10000**	**NS**	**600**	<40
Benzo(b)fluoranthene	3,920	90	**8200**	**NS**	*500*	<42
Benzo(k)fluoranthene	39,200	880	9800	**NS**	550	<38
Benzo(a)anthracene	3,920	90	**11000**	**NS**	*550*	37
Carbazole	143,000	3,190	2000	**NS**	<47	<47
Chrysene	392,000	8,750	*11000*	**NS**	570	<52
Dibenz(a,h)anthracene	390	10	**1600**	**NS**	98	<57
Indeno(1,2,3-cd)pyrene	3,920	90	**7800**	**NS**	*510*	<65
Napthalene	460,000	65,000	<630	**NS**	<65	<66
2-Methylnapthalene	4,090,000	62,600	<420	**NS**	<44	<44

GP-1 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-1-1'**	**NS**	**GP-1-18'**
Benzo(a)pyrene	390	10	**1900**	**NS**	<370
Benzo(b)fluoranthene	3,920	90	*2300*	**NS**	<370
Benzo(k)fluoranthene	39,200	880	*1200*	**NS**	<370
Benzo(a)anthracene	3,920	90	*1500*	**NS**	<370
Carbazole	143,000	3,190	<3500	**NS**	<370
Chrysene	392,000	8,750	1800	**NS**	<370
Dibenz(a,h)anthracene	390	10	<3500	**NS**	<370
Indeno(1,2,3-cd)pyrene	3,920	90	910	**NS**	<380
Napthalene	460,000	65,000	<3500	**NS**	<370
2-Methylnapthalene	4,090,000	62,600	<3500	**NS**	<370
METALS (mg/kg)					
Aluminum	1,020,000	15,600	14000	**NS**	4600
Antimony	409	6	<1.9	**NS**	<2.2
Arsenic	1.91	0.04	**4.8**	**NS**	**7.5**
Chromium	463	15	*23*	**NS**	9.4

MW-1 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**MW-1-1'**	**NS**	**MW-1-5'**	**MW-1-13'**
Benzo(a)pyrene	390	10	*55*	**NS**	**1800**	*94*
Benzo(b)fluoranthene	3,920	90	<44	**NS**	*1500*	78
Benzo(k)fluoranthene	39,200	880	57	**NS**	*1700*	82
Benzo(a)anthracene	3,920	90	67	**NS**	*2200*	*100*
Carbazole	143,000	3,190	<49	**NS**	360	<47
Chrysene	392,000	8,750	66	**NS**	2200	110
Dibenz(a,h)anthracene	390	10	<60	**NS**	*280*	<57
Indeno(1,2,3-cd)pyrene	3,920	90	<67	**NS**	*1100*	<64
Napthalene	460,000	65,000	<69	**NS**	130	<66
2-Methylnapthalene	4,090,000	62,600	<46	**NS**	95	<44

HA-1 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**HA-1-0.5'**	**NS**	**NS**
Benzo(a)pyrene	390	10	**6100**	**NS**	**NS**
Benzo(b)fluoranthene	3,920	90	**6500**	**NS**	**NS**
Benzo(k)fluoranthene	39,200	880	*4700*	**NS**	**NS**
Benzo(a)anthracene	3,920	90	**6300**	**NS**	**NS**
Carbazole	143,000	3,190	320	**NS**	**NS**
Chrysene	392,000	8,750	6800	**NS**	**NS**
Dibenz(a,h)anthracene	390	10	**1300**	**NS**	**NS**
Indeno(1,2,3-cd)pyrene	3,920	90	**4300**	**NS**	**NS**
Napthalene	460,000	65,000	<3600	**NS**	**NS**
2-Methylnapthalene	4,090,000	62,600	<3600	**NS**	**NS**
METALS (mg/kg)					
Aluminum	1,020,000	15,600	5600	**NS**	**NS**
Antimony	409	6	*190*	**NS**	**NS**
Arsenic	1.91	0.04	**5.9**	**NS**	**NS**
Chromium	463	15	13	**NS**	**NS**

GP-10 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-10-1'**	**NS**	**GP-10-5'**	**GP-10-15'**
Benzo(a)pyrene	390	10	**3800**	**NS**	**29000**	<41
Benzo(b)fluoranthene	3,920	90	*3500*	**NS**	**23000**	<43
Benzo(k)fluoranthene	39,200	880	*3400*	**NS**	*30000*	<39
Benzo(a)anthracene	3,920	90	**4300**	**NS**	**46000**	<34
Carbazole	143,000	3,190	<220	**NS**	*11000*	<48
Chrysene	392,000	8,750	4700	**NS**	*36000*	<53
Dibenz(a,h)anthracene	390	10	**740**	**NS**	**5300**	<58
Indeno(1,2,3-cd)pyrene	3,920	90	*2700*	**NS**	**14000**	<65
Napthalene	460,000	65,000	<310	**NS**	*210000*	<67
2-Methylnapthalene	4,090,000	62,600	*210*	**NS**	*69000*	<45

GP-3 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**NS**	**GP-3-3'**	**GP-3-5'**
Benzo(a)pyrene	390	10	**NS**	**970**	*76*
Benzo(b)fluoranthene	3,920	90	**NS**	*1100*	80
Benzo(k)fluoranthene	39,200	880	**NS**	720	<410
Benzo(a)anthracene	3,920	90	**NS**	*850*	70
Carbazole	143,000	3,190	**NS**	44	<410
Chrysene	392,000	8,750	**NS**	1000	78
Dibenz(a,h)anthracene	390	10	**NS**	<410	<410
Indeno(1,2,3-cd)pyrene	3,920	90	**NS**	*500*	44
Napthalene	460,000	65,000	**NS**	<410	<410
2-Methylnapthalene	4,090,000	62,600	**NS**	<410	<410
METALS (mg/kg)					
Aluminum	1,020,000	15,600	**NS**	*16000*	*17000*
Antimony	409	6	**NS**	<2.4	<2.3
Arsenic	1.91	0.04	**NS**	**4.5**	**5.8**
Chromium	463	15	**NS**	*25*	*28*

GP-9 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-9-1'**	**NS**	**GP-9-5'**	**GP-9-15'**
Benzo(a)pyrene	390	10	**2200**	**NS**	*53*	<40
Benzo(b)fluoranthene	3,920	90	*1800*	**NS**	*49*	<42
Benzo(k)fluoranthene	39,200	880	*2200*	**NS**	*49*	<38
Benzo(a)anthracene	3,920	90	*2300*	**NS**	58	<34
Carbazole	143,000	3,190	1100	**NS**	<52	<48
Chrysene	392,000	8,750	2500	**NS**	69	<52
Dibenz(a,h)anthracene	390	10	*260*	**NS**	<63	<58
Indeno(1,2,3-cd)pyrene	3,920	90	*1400*	**NS**	<71	<65
Napthalene	460,000	65,000	780	**NS**	<72	<66
2-Methylnapthalene	4,090,000	62,600	<170	**NS**	<48	<44

GP-14 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-14-1'**	**NS**	**GP-14-5'**
Benzo(a)pyrene	390	10	**5300**	**NS**	**3100**
Benzo(b)fluoranthene	3,920	90	**4500**	**NS**	*2700*
Benzo(k)fluoranthene	39,200	880	*5600*	**NS**	*3000*
Benzo(a)anthracene	3,920	90	**6300**	**NS**	*3600*
Carbazole	143,000	3,190	2100	**NS**	<460
Chrysene	392,000	8,750	6700	**NS**	*3700*
Dibenz(a,h)anthracene	390	10	**800**	**NS**	<560
Indeno(1,2,3-cd)pyrene	3,920	90	*3500*	**NS**	*2200*
Napthalene	460,000	65,000	1500	**NS**	<650
2-Methylnapthalene	4,090,000	62,600	1100	**NS**	<430

GP-11 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-11-1'**	**NS**	**GP-11-5'**
Benzo(a)pyrene	390	10	**9600**	**NS**	*150*
Benzo(b)fluoranthene	3,920	90	**7800**	**NS**	*170*
Benzo(k)fluoranthene	39,200	880	*10000*	**NS**	160
Benzo(a)anthracene	3,920	90	**15000**	**NS**	*180*
Carbazole	143,000	3,190	**10000**	**NS**	<46
Chrysene	392,000	8,750	*17000*	**NS**	220
Dibenz(a,h)anthracene	390	10	**1900**	**NS**	<56
Indeno(1,2,3-cd)pyrene	3,920	90	**5500**	**NS**	*99*
Napthalene	460,000	65,000	*66000*	**NS**	<65
2-Methylnapthalene	4,090,000	62,600	25000	**NS**	<43

GP-5 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-5-2'**	**GP-5-4'**	**NS**
Benzo(a)pyrene	390	10	**6600**	*220*	**NS**
Benzo(b)fluoranthene	3,920	90	**7800**	*390*	**NS**
Benzo(k)fluoranthene	39,200	880	*3800*	<370	**NS**
Benzo(a)anthracene	3,920	90	**7500**	*270*	**NS**
Carbazole	143,000	3,190	1700	61	**NS**
Chrysene	392,000	8,750	7900	*290*	**NS**
Dibenz(a,h)anthracene	390	10	**1000**	<370	**NS**
Indeno(1,2,3-cd)pyrene	3,920	90	*3200*	120	**NS**
Napthalene	460,000	65,000	3900	<370	**NS**
2-Methylnapthalene	4,090,000	62,600	2400	46	**NS**
METALS (mg/kg)					
Aluminum	1,020,000	15,600	1500	6300	**NS**
Antimony	409	6	3.3	<1.1	**NS**
Arsenic	1.91	0.04	*1.1*	**2.6**	**NS**
Chromium	463	15	7.4	11	**NS**

GP-13 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-13-1'**	**NS**	**GP-13-5'**
Benzo(a)pyrene	390	10	**16000**	**NS**	**5800**
Benzo(b)fluoranthene	3,920	90	**15000**	**NS**	**5700**
Benzo(k)fluoranthene	39,200	880	*16000*	**NS**	5300
Benzo(a)anthracene	3,920	90	**22000**	**NS**	**7300**
Carbazole	143,000	3,190	*6000*	**NS**	2400
Chrysene	392,000	8,750	*24000*	**NS**	8200
Dibenz(a,h)anthracene	390	10	**3500**	**NS**	**1200**
Indeno(1,2,3-cd)pyrene	3,920	90	**13000**	**NS**	**4300**
Napthalene	460,000	65,000	14000	**NS**	3400
2-Methylnapthalene	4,090,000	62,600	2300	**NS**	1100

GP-6 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**NS**	**GP-6-4'**	**GP-6-10'**
Benzo(a)pyrene	390	10	**NS**	**2500**	**5700**
Benzo(b)fluoranthene	3,920	90	**NS**	*3000*	*6700*
Benzo(k)fluoranthene	39,200	880	**NS**	*1500*	*3300*
Benzo(a)anthracene	3,920	90	**NS**	*2000*	**5400**
Carbazole	143,000	3,190	**NS**	<3600	<3600
Chrysene	392,000	8,750	**NS**	2300	5400
Dibenz(a,h)anthracene	390	10	**NS**	*400*	<3600
Indeno(1,2,3-cd)pyrene	3,920	90	**NS**	*1200*	*3500*
Napthalene	460,000	65,000	**NS**	<4000	<3600
2-Methylnapthalene	4,090,000	62,600	**NS**	<4000	<3600
METALS (mg/kg)					
Aluminum	1,020,000	15,600	**NS**	*25000*	7700
Antimony	409	6	**NS**	<2.3	<0.99
Arsenic	1.91	0.04	**NS**	**8.7**	**6.8**
Chromium	463	15	**NS**	*38*	14

GP-12 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-12-1'**	**GP-12-4'**	**NS**
Benzo(a)pyrene	390	10	**13000**	**400**	**NS**
Benzo(b)fluoranthene	3,920	90	**12000**	*440*	**NS**
Benzo(k)fluoranthene	39,200	880	*14000*	370	**NS**
Benzo(a)anthracene	3,920	90	**16000**	*370*	**NS**
Carbazole	143,000	3,190	*6600*	<46	**NS**
Chrysene	392,000	8,750	*19000*	400	**NS**
Dibenz(a,h)anthracene	390	10	**2200**	*59*	**NS**
Indeno(1,2,3-cd)pyrene	3,920	90	**6100**	*240*	**NS**
Napthalene	460,000	65,000	27000	<65	**NS**
2-Methylnapthalene	4,090,000	62,600	9500	<43	**NS**

MW-3 (06-2007)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**MW-3-1'**	**NS**	**MW-3-5'**
Benzo(a)pyrene	390	10	**1800**	**NS**	**1200**
Benzo(b)fluoranthene	3,920	90	*2100*	**NS**	*1500*
Benzo(k)fluoranthene	39,200	880	*1600*	**NS**	*1200*
Benzo(a)anthracene	3,920	90	*2400*	**NS**	*1300*
Carbazole	143,000	3,190	580	**NS**	630
Chrysene	392,000	8,750	2800	**NS**	1600
Dibenz(a,h)anthracene	390	10	**390**	**NS**	*250*
Indeno(1,2,3-cd)pyrene	3,920	90	*990*	**NS**	780
Napthalene	460,000	65,000	1700	**NS**	910
2-Methylnapthalene	4,090,000	62,600	590	**NS**	330

GP-4 (08-2006)

Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			**GP-4-2'**	**NS**	**GP-4-6'**
Benzo(a)pyrene	390	10	**12000**	**NS**	*330*
Benzo(b)fluoranthene	3,920	90	**15000**	**NS**	*370*
Benzo(k)fluoranthene	39,200	880	5200	**NS**	240
Benzo(a)anthracene	3,920	90	**15000**	**NS**	*420*
Carbazole	143,000	3,190	*5800*	**NS**	110
Chrysene	392,000	8,750	*16000*	**NS**	480
Dibenz(a,h)anthracene	390	10	<3600	**NS**	<360
Indeno(1,2,3-cd)pyrene	3,920	90	*6400*	**NS**	190
Napthalene	460,000	65,000	22000	**NS**	120
2-Methylnapthalene	4,090,000	62,600	8100	**NS**	58
METALS (mg/kg)					
Aluminum	1,020,000	15,600	3400	**NS**	4100
Antimony	409	6	*57*	**NS**	2
Arsenic	1.91	0.04	**2.4**	**NS**	*1.7*
Chromium	463	15	*22*	**NS**	7.6

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Rev.	By:	Disc.:	Date:
Rev.	By:	Disc.:	Date:
Rev.	By:	Disc.:	Date:
Rev.	By:	Disc.:	Date:

6870 S. 13th Street
OAK CREEK, WISCONSIN

FIGURE 5
SOIL CONCENTRATION MAP

Drawn By:	MDO	Date Drawn:	11/18/2011
Reviewed By:	KA	Date Reviewed:	11/2011
Scale:	1" = 30'	Plot Date:	11/2011
Project Number.:			

EHS Support
consider it done

CAP Maintenance Plan Ashland Performance Materials Facility

Prepared By:
EHS Support, Inc.

February 2011

Property Located at:

6870 SOUTH 13th STREET,
OAK CREEK, WISCONSIN

FID # 241257830
WDNR BRRTS #02-41-548266

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1.0 INTRODUCTION

This document is the Cover Maintenance Plan for a surface pavement asphalt cap for the Ashland Performance Materials facility (site or property) located at 6870 South 13th Street in Milwaukee, Wisconsin in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. A Site Location map is included as Figure 1. Remedial investigation activities are being performed under jurisdiction of the Wisconsin Department of Natural Resources (WDNR), Bureau of Remediation and Redevelopment Program (BRRTs). The Site BRRTs identification number for the Site is BRRTs #02-41-548266 and the WDNR facility identification number is FID #24157830. The maintenance activities described in this plan relate to the surface pavement asphalt cap occupying the area over the contaminated soil on-site as shown on Figure 2

Legal description of the property is as follows: All that certain piece or parcel of land being parcel 2 of Certified Survey Map Number 2310, recorded 04-25-1974, on Reel 781, Images 1237 to 1240, including the East 20 feet of vacated street adjoining on the West, being a part of the Southwest ¼ of Section 5, Township 5 North, Range 22 East, lying and situate in the City of Oak Creek, County of Milwaukee and the State of Wisconsin. The assessor's parcel number for the subject property is 735-9023

More site-specific information about this property may be found in:

- The case file in the DNR Southeast regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): http://botw.dnr.state.wi.us/botw/SetUpBasicSearchForm.do
- Registry PDF file for further information on the nature and extent of contamination: http://dnrmaps.wisconsin.gov/imf/imfApplyTheme.jsp?index=1; and
- The DNR project manager for Milwaukee County.

2.0 DESCRIPTION OF CONTAMINATION

Shallow soil SVOC impacts above SSRCLs have been identified across the Site, however concentrations decrease with depth within the native clays that underlie fill materials. The non-detectable or decreased SVOC concentrations in native clay materials beneath the fill suggests that the impacts exist in background in fill materials rather than the result of historical operations at the Site. Concentrations of metals were detected in all samples across the site and are believed to be indicative of background concentrations. Due to the shallow nature of the SVOC contaminants, the ubiquitous nature of the metals detections, a map delineating the extent of soil contamination has not been included.

3.0 DESCRIPTION OF THE CAP TO BE MAINTAINED

The surface pavement asphalt cap consists of base stone area with two inches of ¾ inch Department of Transportation approved crushed aggregate and five inches of compacted thickness hot mix asphalt. The asphalt cap is located along the eastern and western boundary of the site property, across the northern boundary of the property, and extends to existing pavement cover as shown on the attached Figure 2.

A copy of the engineering specifications for the surface pavement asphalt cap is attached as Exhibit A.

4.0 COVER BARRIER PURPOSE

The surface pavement asphalt cap over the contaminated soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The surface pavement asphalt cap also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the groundwater standards in ch. NR 140, Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

5.0 ANNUAL INSPECTION

The surface pavement asphalt cap will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause additional infiltration into, or exposure to, underlying soils. The inspections will be performed by the property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed, and where infiltration from the surface will not be effectively minimized, will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B, Barrier Inspection and Maintenance Log.

The log will include recommendations for necessary repair of any areas where underlying soils are exposed and where infiltration from the surface will not be effectively minimized. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept at the address of the property owner and available for submittal or inspection by WDNR representatives upon their request.

6.0 MAINTENANCE ACTIVITIES

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling or larger resurfacing or construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment. The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored and disposed of by the owner in accordance with applicable local, state and federal law.

In the event the surface pavement asphalt cap overlying the soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Cover Maintenance Plan unless indicated otherwise by the WDNR or its successor.

The property owner, in order to maintain the integrity of the surface pavement asphalt cap, will maintain a copy of this Cover Maintenance Plan on-site and make it available to all interested parties (i.e. on-site employees, contractors, future property owners, etc.) for viewing.

7.0 PROHIBITION OF ACTIVITIES AND NOTIFICATION OF DNR PRIOR TO ACTIONS AFFECTING A COVER OR CAP

The following activities are prohibited on any portion of the property where surface pavement asphalt cap is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

8.0 AMENDMENT OR WITHDRAWAL OF COVER MAINTENANCE PLAN

This Cover Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

Contact Information
[February 2011]

Site Owner and Operator: Steven Roach
5200 Blazer Parkway
Dublin, Ohio 43017
(614) 790-3915

Signature: _____

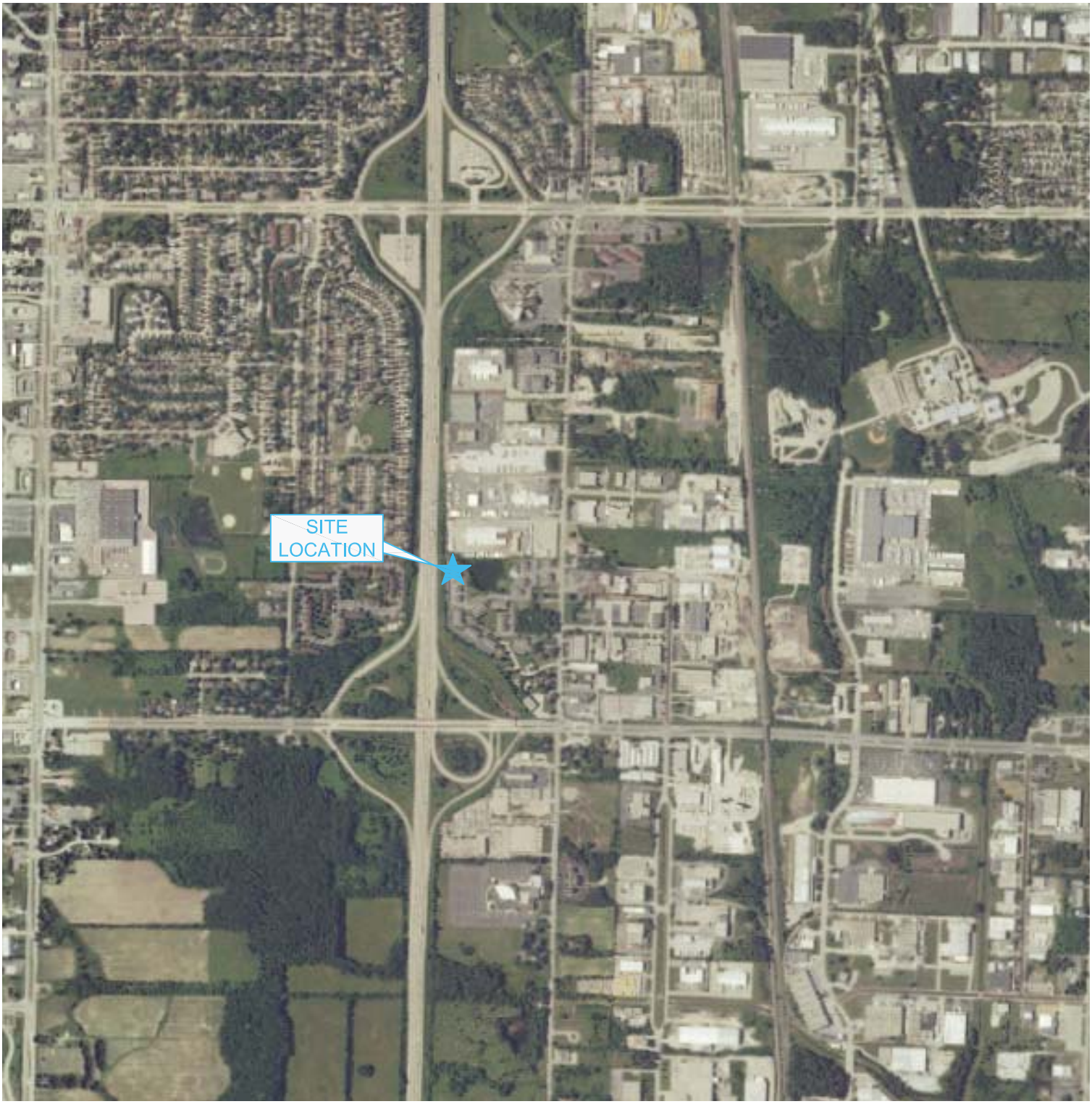
(DNR may request signature of affected property owners, on a case-by-case basis)

Property Owner: [NAME]
[ADDRESS]
[PHONE #]

Signature: NA

Consultant: Mr. Andy Patz
EHS Support Inc.
133 Southern Farms Road
Worthington, PA 16262
Phone (412) 215-7703

WDNR: Mr. Eric Amadi
Wisconsin Department of Natural Resources
2300 North Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128
(414) 263-8500



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Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:

Source: USGS Topographic Map
Quadrangle: Greendale, WI
Dated: 1976
Scale: 1 : 24,000

SCALE IN FEET
0 *24,000*

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W E
S

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6870 S. 13th Street
OAK CREEK, WI

FIGURE 1
SITE LOCATION MAP

Drawn By:	MDO	Date Drawn:	02/10/2011
Reviewed By:	KA	Date Reviewed:	02/2011
Scale:	AS SHOWN	Plot Date:	02/2011
Project Name: Ashland Performance Materials Facility			

LEGEND

- SOIL/GROUNDWATER SAMPLE LOCATION (Aug. 2006)
- SOIL SAMPLE LOCATION (Aug. 2006)
- SOIL BORING LOCATION (June 2007)
- GROUNDWATER MONITORING WELL LOCATION
- SURFACE PAVEMENT ASPHALT CAP AREA

N

SCALE IN FEET

0 30

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Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:

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OAK CREEK, WI

FIGURE 2
SURFACE PAVEMENT ASPHALT CAP

Drawn By:	MDO	Date Drawn:	02/10/2011
Reviewed By:	KA	Date Reviewed:	02/2011
Scale:	1" = 30'	Plot Date:	02/2011
Project Name:	Ashland Performance Materials Facility		

1. GENERAL

1.1. Unless otherwise noted, material specifications and placement shall conform to local and State D.O.T. specifications or "Guide Specifications for Highway Construction", latest edition published by AASHTO.

1.2. Refer to other project documents and drawings which describe the work to be done.

2. SUBGRADE

2.1. Proof-rolling - The subgrade of natural earth or controlled fill material shall be proof-rolled with a minimum of a loaded 10-ton double-axle dump truck or approved equivalent piece of equipment. Soft areas detected should be stabilized by removal and replacement with a compacted, non-yielding fill material. Stabilization alternatives include use of engineering fabric or geogrid: removal and replacement with primary aggregate; lime stabilization; or cement stabilization.

The finished subgrade shall consist of a smooth surface conforming to the prescribed elevations before constructing the base or surface course. The subgrade elevation shall not vary at any point by more than 0.04 foot from the prescribed elevation. Finished sections damaged by construction operations shall be corrected by and at the Contractor's Expense.

3. MATERIAL SPECIFICATIONS

3.1. General - All materials and suppliers shall be local D.O.T. approved . A certificate of compliance shall be submitted to Ashland Chemical for approval prior to construction. Established state or local mixes meeting the recommended criteria may be more economical than those suggested. If so, they should be considered and submitted to the Ashland Chemical Civil Engineer for approval.

3.2. Graded Aggregate Base

3.2.1. Material shall be crushed limestone unless otherwise specified or approved. If limestone is not available, an alternate material may be used. Any alternate material must be approved by Ashland Chemical's Civil Engineer.

Crushed limestone shall consist of clean, sound rock of uniform quality. Grading shall match the following sieve sizes:

Sieve Size	2"	1"	3/4"	1/2"	#4	#40	#200
% Passing	100	70-90	50-85	40-75	25-60	10-30	15 max.

3.2.2. Crushed Gravel (Alternative) - Gravel shall be composed of hard, clean stone. It shall be crushed so that no less than 40% of pieces remaining on a #4 screen are fractured. Grading shall conform to the following sieve sizes:

Sieve Size	1"	3/4"	1/2"	#4	#40	#200
% Passing	100	90-100	50-80	25-60	10-25	15 max.

3.3. Asphaltic Concrete

3.3.1. Asphalt Cement shall be AASHTO Grade AC-20 or equivalent State D.O.T. specification.

3.3.2. A Tack Coat shall be applied to the surface of the base prior to the placing of the wearing surface. The tack coat shall be applied at a rate of 0.05 to 0.15 gallons per square yard, and shall consist of one part water to one part SS-1 asphalt emulsion. The tack coat shall be applied on only as much pavement as can be covered with asphalt-aggregate mixture in the same day. The temperature of the tack coat shall be 140-160 degrees Fahrenheit at the time of application. All surfaces coming in contact with the asphalt, such as, curbing, manholes, concrete pavement, and other structures shall be coated with a thin uniform coating of bituminous material (tack coat) prior to the asphalt mixture being placed against them.

3.3.3. Temperature of the mix for asphalt courses shall be between 275 degrees F and 325 degrees F when delivered to the spreader at the job site. Trucks delivering asphalt material shall be covered. Material not complying will be subject to rejection by Ashland Chemical's representative.

3.3.4. Spreading of asphalt courses shall be done with an approved mechanical spreader. Areas not accessible to a spreader may be raked by hand. Joints in the wearing surface shall overlap joints in the base by 12 inches.

3.3.5. The minimum lift thickness shall be at least two times the maximum particle size. The largest size stone is 1/2 inch for the Wearing Surface. The largest allowable size aggregate is 1½ inch for the Base Course.

3.3.6. Compaction shall be done with minimum 10-ton rollers or vibrators capable of giving equivalent compaction. A vibratory roller shall not be used on the wearing surface. Final compaction shall be at least 95% maximum laboratory density. Rollers shall begin at the lower elevation and work upwards. To seal the surface, the final pass shall be made with equipment that is suited for the size of the job. Pneumatic tired roller shall be used for large jobs and vibratory plate compactor for small jobs. Final rolling shall eliminate marks from previous rolling.

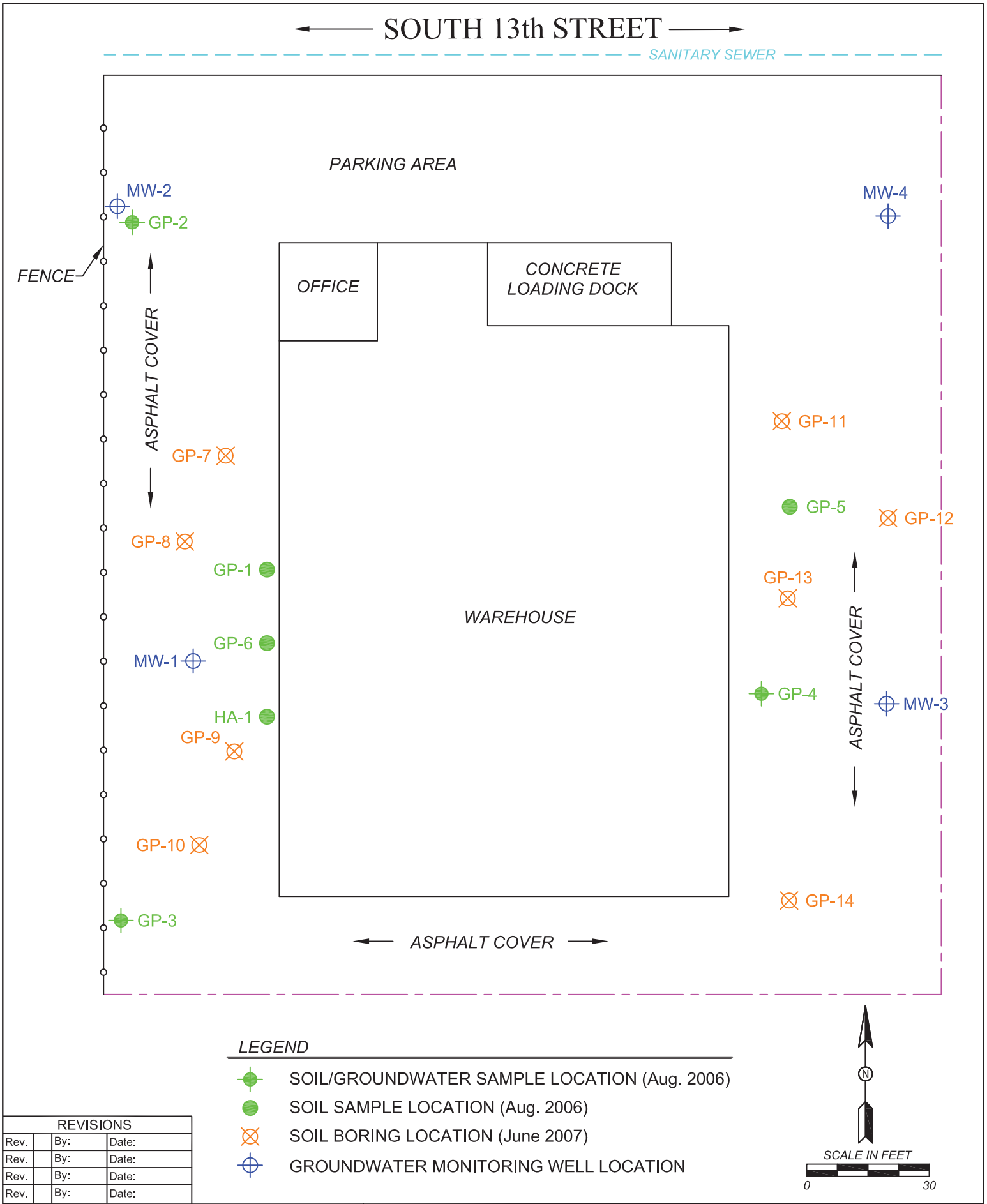
3.3.7. Tests will be made at the option of Ashland Chemical's representative for any or all batches delivered to the site including compaction of the pavement according to the latest ASTM methods. The cost of all tests will be paid for by Ashland Chemical. Materials or workmanship not conforming to the specifications will be subject to rejection or if already incorporated into the work shall, at the option of the Ashland Chemical, be removed, disposed of, and replaced at the Contractor's expense.

3.3.8. Wearing and Base Courses - Table 1 covers an acceptable range of mix design for both the wearing and base courses. Established state or local mixes may be more economical than those suggested and should be considered.

	MAXIMUM PARTICLE SIZE		
	1/2 INCH	1/2 INCH	1/2 INCH
SIEVE SIZE	**WEARING COURSE**	**BASE COURSE**	**BITUMINOUS AGGREGATE BASE**
2 inch	---	---	100
1.5 inch	---	100	---
1 inch	---	90 to 100	75 to 100
3/4 inch	100	---	---
1/2 inch	90 to 100	56 to 80	50 to 85
3/8 inch	---	---	---
No. 4	44 to 74	29 to 59	25 to 60
No. 8	28 to 58	19 to 45	15 to 45
No. 16	---	---	10 to 35
No. 30	---	---	---
No. 50	5 to 21	5 to 17	3 to 18
No. 100	---	---	---
No. 200	2 to 10	1 to 7	1 to 7
Asphalt Cement, weight percent of total mixture	3 to 9	4 to 11	4 to 8

Exhibit B
Barrier INSPECTION and MAINTENANCE LOG

Inspection Date	Inspector	Condition of Cap	Recommendations	Has recommended maintenance from previous inspection been implemented?



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Rev.		By:	Date:

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OAK CREEK, WI

FIGURE 2
SITE LAYOUT MAP WITH SAMPLE LOCATIONS

Drawn By:	MDO	Date Drawn:	02/10/2011
Reviewed By:	KA	Date Reviewed:	02/2011
Scale:	1" = 30'	Plot Date:	02/2011
Project Name:	Ashland Performance Materials Facility		

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

December 14, 2012

Mr. Steven Roach
Ashland Inc.
Environmental Health and Safety, DS-4
5200 Blazer Parkway
Dublin, Ohio 43017

Subject: Conditional Closure Decision
With Requirements to Achieve Final Closure
Ashland Performance Materials Facility (aka Former Northwest Coating Facility)
6870 South 13th Street, Oak Creek, Wisconsin 53154
FID #: 241257830; BRRTS #: 02-41-548266

Dear Mr. Roach:

On December 12, 2012, the Department of Natural Resources (DNR) reviewed your request for closure of the case described above. The DNR reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After review of the closure request, the DNR has determined that the semi volatile organic compound (SVOCs), in particular, polycyclic aromatic hydrocarbons (PAHs) and metal contamination detected on the site appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to DNR standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following condition is satisfied:

MONITORING WELL ABANDONMENT
The monitoring wells at the site and/or those monitoring points associated with the cleanup activities of this site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to the DNR on Form 3300-005 found at http://dnr.wi.gov/org/water/dwg/forms/3300005.pdf or those provided by the DNR.

When the above condition has been satisfied, please submit the appropriate documentation (for example, well abandonment forms) to verify that applicable condition has been met, and your case will be closed. Your site will be listed on the DNR's Remediation and Redevelopment GIS Registry. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit the RR Sites Map page at: http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2.

CONTINUING OBLIGATIONS AND RESPONSIBILITIES
As part of the approval of the closure of this case, you will be responsible for maintaining the following continuing obligations:

- Residual soil contamination exists that must be properly managed should it be excavated or removed.
- Pavement, an engineered cover or a soil barrier must be maintained over contaminated soil and the DNR must approve any changes to this barrier.
- If a structural impediment that obstructed a complete site investigation or cleanup is removed or modified, additional environmental work must be completed.

Mr. Steven Roach
RE: Conditional Case Closure With Requirements to Achieve Final Closure
Ashland Performance Materials Facility
(aka Former Northwest Coating Facility)
December 14, 2012
Page 2 of 2.

- Before the land use may be changed from industrial to non-industrial, additional environmental work must be completed.

In the final closure approval, you will also be required to conduct annual cap inspections. Documentation of the inspection will be required to be kept on site and/or submitted to the DNR annually upon request.

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

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 414.263.8639.

Sincerely,

Eric Amadi

Eric Amadi - Hydrogeologist
Remediation & Redevelopment Program
SER - Milwaukee Service Center

cc: Andy Patz - EHS Support, Inc. 133 Southern Farms Rd; Worthington, PA 16262 (via email)
Kristan Avedikian - EHS Support, Inc. 5322 Leather Stocking Lane, Stone Mountain, GA 30087 (via email)
SER Case File #: 02-41-548266

3

09395917

DOC.# 09395917

REGISTER'S OFFICE | SS
Milwaukee County, WI

RECORDED 03/07/2007 10:34AM

JOHN LA FAVE
REGISTER OF DEEDS

AMOUNT: 15.00

Document Number

STATE BAR OF WISCONSIN FORM 6 – 2000
SPECIAL WARRANTY DEED
(CORRECTIVE DEED)

This Deed, made between NW Wind-Down, LLC, f/k/a Northwest Coatings, LLC, f/k/a NWCC Acquisition, LLC, a Delaware limited liability company ("Grantor"), and Ashland Inc., a Kentucky corporation ("Grantee").

Grantor, for a valuable consideration, conveys to Grantee the following described real estate in Milwaukee County, State of Wisconsin (the "Property") (if more space is needed, please attach addendum):

See Addendum A attached hereto.

Together with all appurtenant rights, title and interests.

Grantor warrants that the title to the Property is good, indefeasible in fee simple and free and clear of encumbrances, arising by, through or under Grantor, except municipal and zoning ordinances and agreements entered under them, recorded easements, restrictions and covenants, general taxes levied in the year of closing, any matters disclosed by a current survey of the Property and all other matters set forth on Addendum B attached hereto.

This Special Warranty Deed is being recorded to correct the Grantor's name on the Special Warranty Deed recorded on December 6, 2006 as Document No. 09349069.59

Recording Area

Name and Return Address
Ashland, Inc.
ATTN: Kimberly Humphrey Czirr
3499 Blazer Parkway
Lexington, KY 40509

735-9023
Parcel Identification Number (PIN)
This is not homestead property.

Dated as of the 27th day of Feb, 2007.

FEE
77.25 (3)
EXEMPT

NW Wind-Down, LLC, f/k/a Northwest Coatings, LLC, f/k/a NWCC Acquisition, LLC

By: NW Liquidating Manager, Inc., its Manger

By: _____
Garrick Ahn, President

AUTHENTICATION

Signature(s) _____ authenticated this _____ day of _____, _____.

_____
*
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, _____ authorized by §706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Kevin M. McCauley
Godfrey & Kahn, S.C.

(Signatures may be authenticated or acknowledged. Both are not necessary.)

LISA J. WEEKS
Commission # 1596203
Notary Public - California
Los Angeles County
My Comm. Expires Jul 21, 2009

ACKNOWLEDGMENT

STATE OF CALIFORNIA)
) ss.
LOS ANGELES COUNTY)

Personally came before me this 27th day of Feb, 2007 the above named Garrick Ahn to me known to be the person who executed the foregoing instrument and acknowledged the same.

_____
* LISA J. WEEKS

Notary Public, State of California
My Commission is permanent. (If not, state expiration date: July 21, 2009.)

mw1280043_2

ADDENDUM A

PARCEL 1:

PARCEL 2 OF CERTIFIED SURVEY MAP NO. 2310, RECORDED APRIL 25, 1974, ON REEL 781, IMAGES 1237 TO 1240 INCLUSIVE, AS DOCUMENT NO. 4835660, INCLUDING THE EAST 20 FEET OF VACATED STREET ADJOINING ON THE WEST, BEING A PART OF THE SOUTHWEST ¼ OF SECTION 5, TOWN 5 NORTH, RANGE 22 EAST, IN THE CITY OF OAK CREEK, COUNTY OF MILWAUKEE, STATE OF WISCONSIN.

TAX KEY NO.: 735-9023

PARCEL 2:

A NON-EXCLUSIVE EASEMENT FOR WATER SERVICE LINE AS SET FORTH IN EASEMENT RECORDED MAY 10, 1974 AS DOCUMENT NO. 4839669.

mw1280043_2

REEL 781 IMAGE 1231

CERTIFIED SURVEY MAP NO. 2310

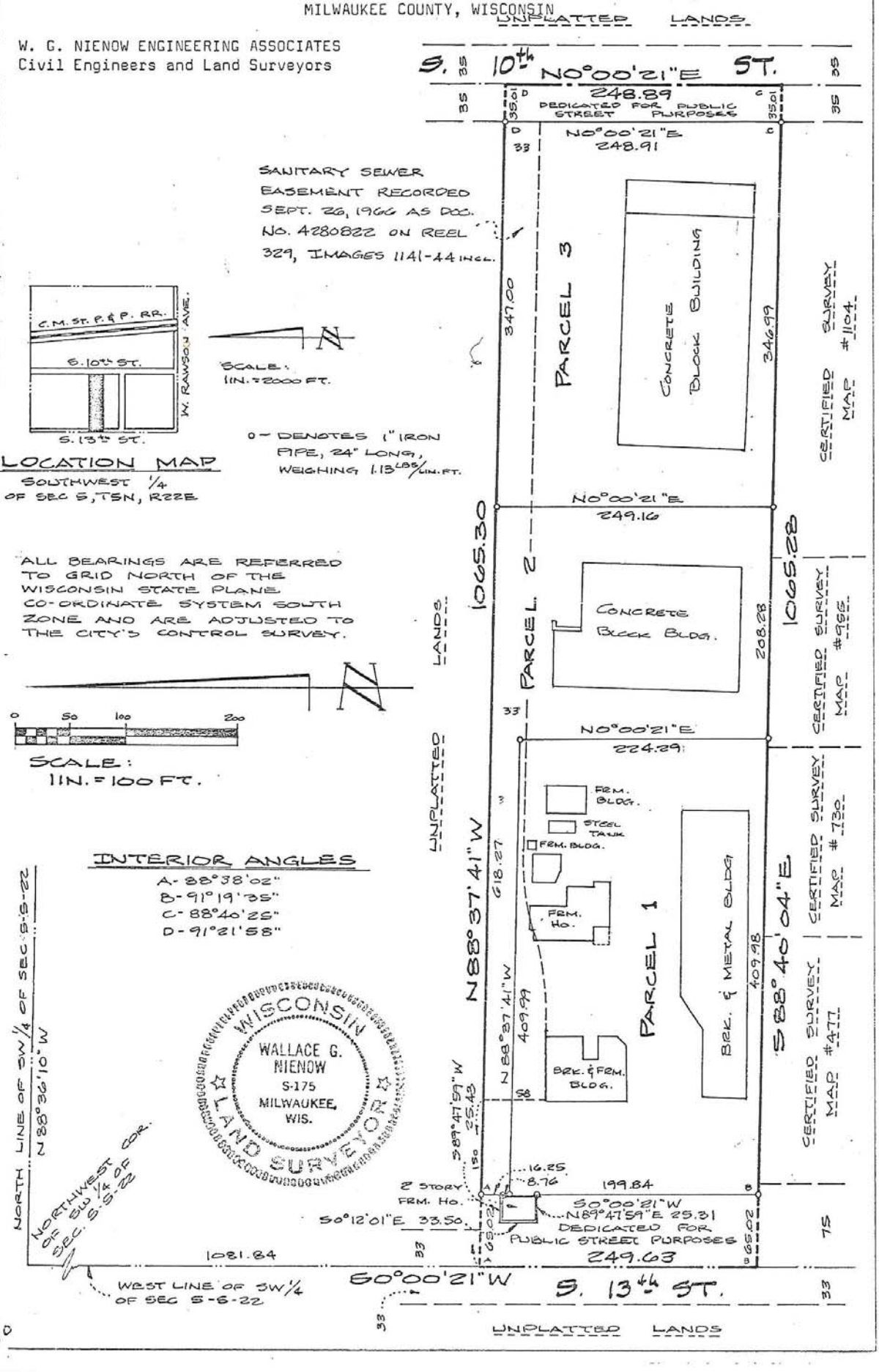
being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

W. G. NIENOW ENGINEERING ASSOCIATES
Civil Engineers and Land Surveyors



CERTIFIED SURVEY MAP NO. _____

being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN (
MILWAUKEE COUNTY (SS

I, WALLACE G. NIENOW, land surveyor, do hereby certify:

THAT I have surveyed and mapped a part of the Southwest 1/4 of Section 5, Township 5 North, Range 22 East, in the City of Oak Creek, Milwaukee County, Wisconsin, bounded and described as follows:

Commencing at a point in the West line of said 1/4 Section 1081.84 feet, S 0° 00' 21" W of the Northwest corner thereof; continuing thence S 0° 00' 21" W along the West line of said 1/4 Section, 249.63 feet to a point in the South line of the North 1/2 of said 1/4 Section; thence S 88° 40' 04" E along the South line of the North 1/2 of said 1/4 Section, 1065.28 feet to a point in the centerline of S. Tenth Street; thence N 0° 00' 21" E along the centerline of S. Tenth Street and parallel to the West line of said 1/4 Section, 248.89 feet to a point; thence N 88° 37' 41" W, 1065.30 feet to the point of commencement.

THAT I have made this survey, land division and map by the direction of E. M. CONSTRUCTION, INC., owner of said land.

THAT such map is a correct representation of all the exterior boundaries of the land surveyed and the land division thereof made.

THAT I have fully complied with the provisions of Chapter 236 of the Wisconsin Statutes and Chapter 18 of the City of Oak Creek Municipal Code in surveying, dividing and mapping the same.

Date: OCTOBER 5, 1973
REV.: 6 MARCH 1974

Wallace G. Nienow
Wallace G. Nienow, Land Surveyor

CORPORATE OWNER'S CERTIFICATE

E. M. CONSTRUCTION, INC., a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner, does hereby certify that said corporation caused the lands described above to be surveyed, divided and mapped as represented on this map in accordance with the requirements of Ordinance No. 82 of the City of Oak Creek.

In Witness Whereof, the said E. M. CONSTRUCTION, INC., has caused these presents to be signed by EMIL MEUCCI, President, and countersigned by EMMA MEUCCI, Secretary, and its corporate seal to be hereunto affixed on this 11th day of OCTOBER, 1973.

IN THE PRESENCE OF:

Jo Ann Van Guilder
Jo Ann Van Guilder

Richard M. Scholl
Richard M. Scholl

Emil Meucci SEAL
Emil Meucci, President

Emma Meucci SEAL
Emma Meucci, Secretary

Vincent Yaeger Seal
Vincent yaeger

Lawrence Yaeger Seal
(Lawrence Yaeger)

STATE OF WISCONSIN (
COUNTY OF MILWAUKEE (SS

Personally came before me this 11th day of OCTOBER, 1973, EMIL MEUCCI, President and EMMA MEUCCI, Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

My Commission expires July 18, 1976

R. M. Scholl
R. M. SCHOLL
Public Notary, Milwaukee County, Wisconsin

CERTIFIED SURVEY MAP NO. _____

being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

CONSENT OF CORPORATE MORTGAGEE

OAK CREEK MARINE NATIONAL BANK, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, mortgagee of the foregoing described land, does hereby consent to the surveying, dividing, mapping and dedication of the land described on this map, and does hereby consent to the above certificate of E. M. CONSTRUCTION, INC., owner.

In Witness Whereof, the said OAK CREEK MARINE NATIONAL BANK has caused these presents to be signed by RICHARD M. SCHOLL, President, and countersigned by JON A. MURDOCH, Cashier, at Milwaukee, Wisconsin, and its corporate seal to be hereunto affixed this 11th day of OCTOBER, 1973.

IN THE PRESENCE OF:

Jo Ann Van Guilder

Jo Ann Van Guilder

Joseph A. Domanik

Joseph A. Domanik

OAK CREEK MARINE NATIONAL BANK

Richard M. Scholl SEAL

Richard M. Scholl, President

Countersigned:

Jon A. Murdoch SEAL

Jon A. Murdoch, Cashier

STATE OF WISCONSIN (
COUNTY OF MILWAUKEE (SS

Personally came before me this 12th day of October, 1973, the above named RICHARD M. SCHOLL, President and JON A. MURDOCH, Cashier 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 Cashier of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

My Commission expires 10-26-75

Judith A. Otto

Judith A. Otto

Notary Public, Milwaukee County, Wisconsin

PLANNING COMMISSION APPROVAL

Approved by the Planning Commission of the City of Oak Creek on this 20th day of March, 1974.

Elroy C. Honadel

Chairman

Fredrick D. Fairbanks

Secretary

COMMON COUNCIL APPROVAL

Approved by the Common Council of the City of Oak Creek on this 9th day of April, 1974, by resolution no. 3098-040474.

Elroy C. Honadel

Mayor

LaVerne C. Gutknecht

City Clerk

4835660

REGISTER'S OFFICE
Milwaukee County, Wis. } SS
RECORDED AT 2 [illegible] M
on APR 25 1974 in
Reel 781 Image 1237 to 1240 incl.

Walter R. Bergh

REGISTER OF DEEDS

REEL 701 IMAG 1240

CERTIFIED SURVEY MAP NO. _____

being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

COMMON COUNCIL ACCEPTANCE OF DEDICATION

Dedication of land as indicated above accepted by the Common Council of the City of Oak Creek, per Plan Commission recommendation, on this 4th day of April, 1974, by resolution No. 3099-040474.

Elroy C. Henadel

Mayor

LaVerne C. Gutknecht

City Clerk

This instrument was drafted by: Wallace G. Nienow

STATE OF WISCONSIN
MILWAUKEE COUNTY
I, the undersigned Register of Deeds of Milwaukee County, hereby certify that this document is a true and correct copy of the original on file or record in my office. Witness my hand and official seal this

SEP 13 2011

date

John La Fave

JOHN LA FAVE
Register of Deeds

Signature Statement

GIS Registry Checklist – Source Legal Documents

The following is the Signed Statement as requested by the State of Wisconsin Department of Natural Resources.

I, Steven Roach, hereby state that the attached legal description accurately describes the correct contaminated property.

2-25-11
DATE

SIGNATURE

REVISIONS		
Rev.	By:	Date:
Rev.	By:	Date:
Rev.	By:	Date:
Rev.	By:	Date:

Source: USGS Topographic Map
Quadrangle: Greendale, WI
Dated: 1976
Scale: 1 : 24,000

SCALE IN FEET
0 24,000

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EHS Support
consider it done
www.ehs-support.com

6870 S. 13th Street
OAK CREEK, WI

FIGURE 2
SITE LOCATION MAP

Drawn By: MDO	Date Drawn: 02/10/2011
Reviewed By: KA	Date Reviewed: 02/2011
Scale: AS SHOWN	Plot Date: 02/2011
Project Name: Ashland Performance Materials Facility	

REVISIONS		
Rev.	By:	Date:
Rev.	By:	Date:
Rev.	By:	Date:
Rev.	By:	Date:

Source: Google Maps
Quadrangle: Greendale, WI
Dated: 2011

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6870 S. 13th Street
OAK CREEK, WI

FIGURE 3
SURROUNDING AREA MAP

Drawn By: MDO	Date Drawn: 05/24/2011
Reviewed By: KA	Date Reviewed: 05/2011
Scale: - NTS -	Plot Date: 05/2011
Project Name: Ashland Performance Materials Facility	

LEGEND

- SOIL/GROUNDWATER SAMPLE LOCATION (Aug. 2006)
- SOIL SAMPLE LOCATION (Aug. 2006)
- SOIL BORING LOCATION (June 2007)
- GROUNDWATER MONITORING WELL LOCATION
- SURFACE PAVEMENT ASPHALT CAP AREA

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SCALE IN FEET

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REVISIONS			
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:

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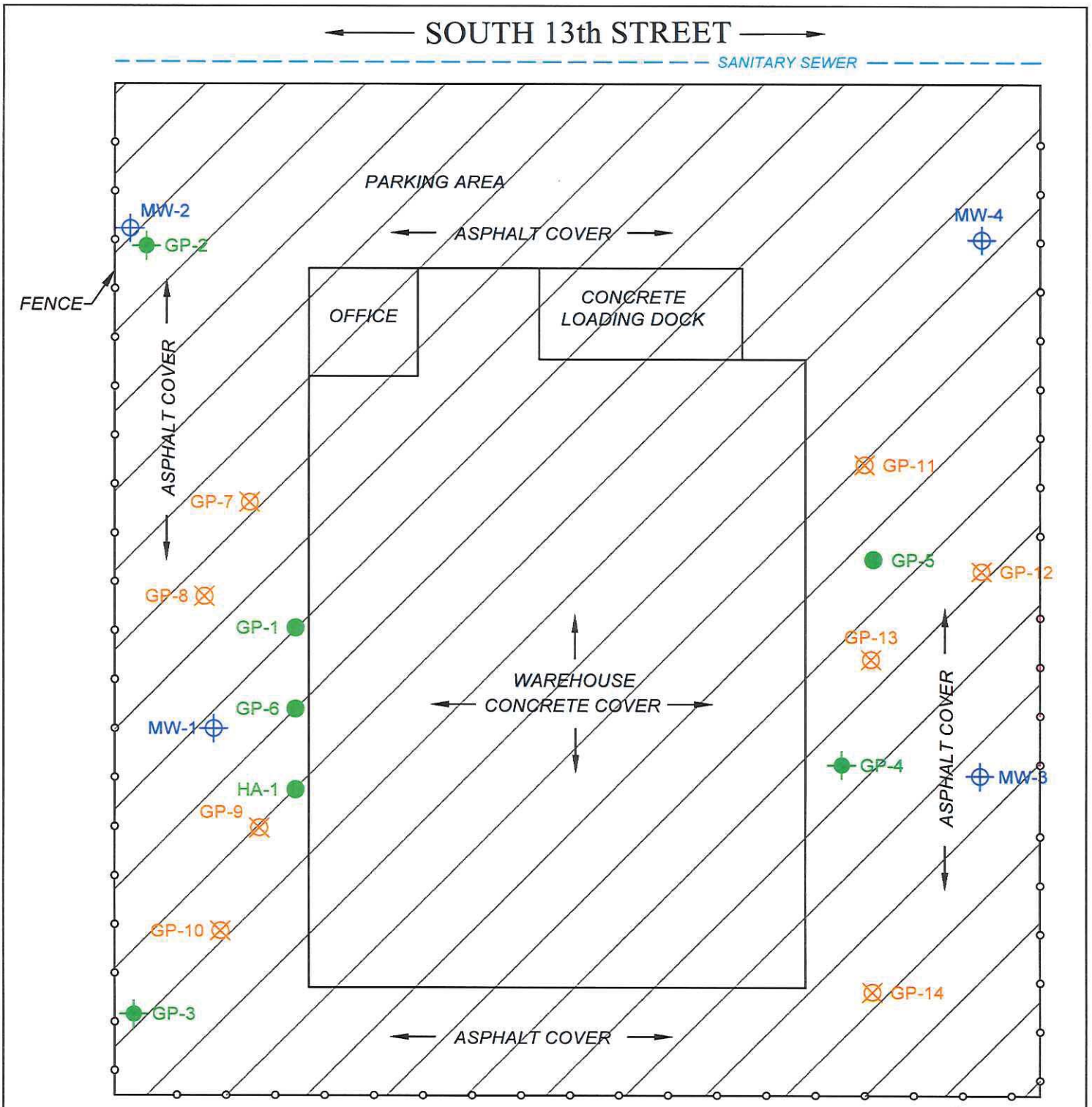
6870 S. 13th Street
OAK CREEK, WI

FIGURE 3
SURFACE PAVEMENT ASPHALT CAP

Drawn By: MDO	Date Drawn: 02/10/2011
Reviewed By: KA	Date Reviewed: 02/2011
Scale: 1" = 30'	Plot Date: 02/2011
Project Name: Ashland Performance Materials Facility	



LEGEND

- SOIL/GROUNDWATER SAMPLE LOCATION (Aug. 2006)
- SOIL SAMPLE LOCATION (Aug. 2006)
- SOIL BORING LOCATION (June 2007)
- GROUNDWATER MONITORING WELL LOCATION
- SURFACE PAVEMENT CAP

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SCALE IN FEET

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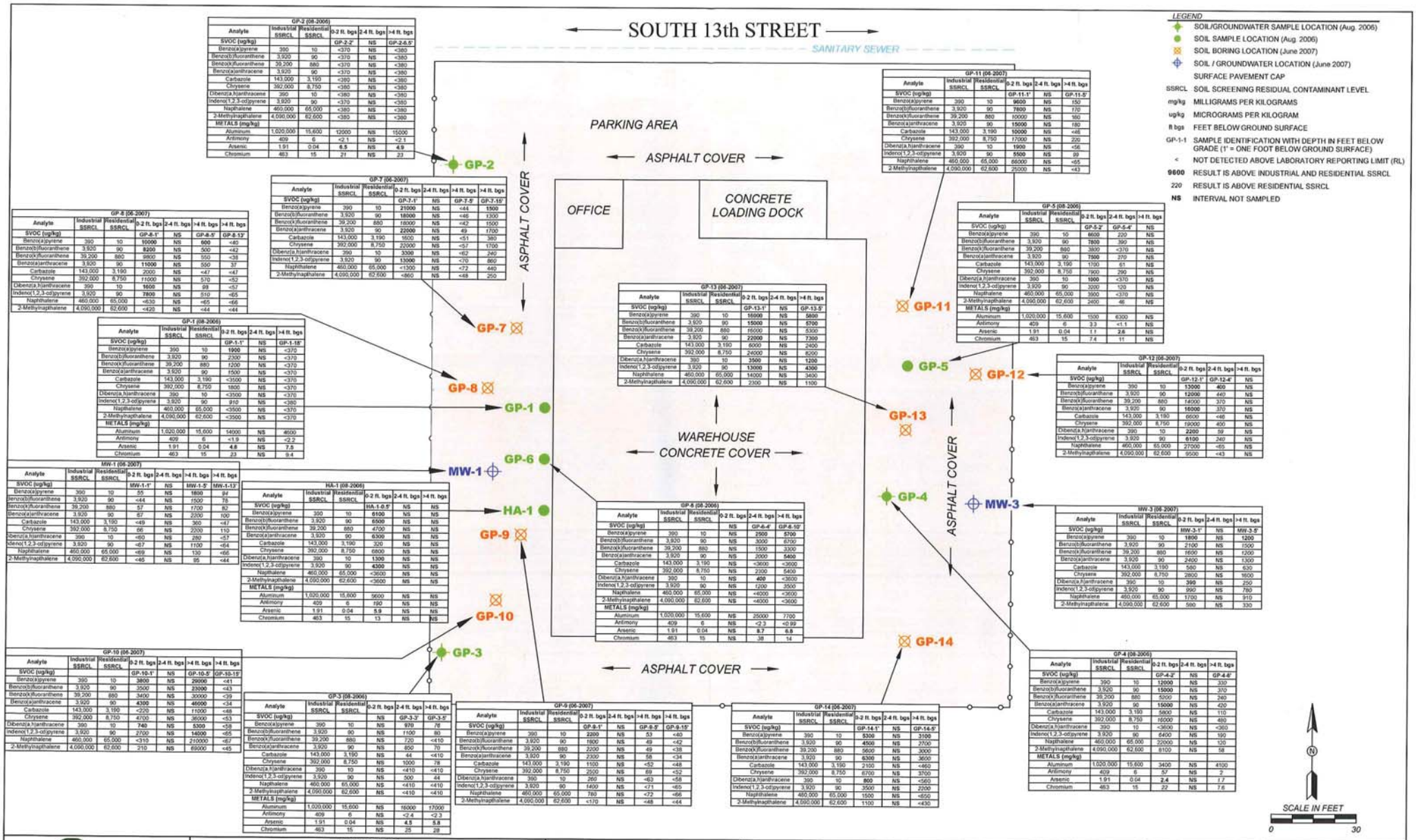
REVISIONS		
Rev.	By:	Date:
Rev.	By:	Date:
Rev.	By:	Date:
Rev.	By:	Date:

EHS Support consider it done
www.ehs-support.com

6870 S. 13th Street
OAK CREEK, WI

FIGURE 4
SITE LAYOUT MAP

Drawn By: MDO	Date Drawn: 02/10/2011
Reviewed By: KA	Date Reviewed: 02/2011
Scale: 1" = 30'	Plot Date: 02/2011
Project Name: Ashland Performance Materials Facility	



GP-2 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-2-2'	NS	GP-2-6.5'
Benzo(a)pyrene	390	10	<370	NS	<380
Benzo(b)fluoranthene	3,920	90	<370	NS	<380
Benzo(k)fluoranthene	39,200	880	<370	NS	<380
Benzo(a)anthracene	3,920	90	<370	NS	<380
Carbazole	143,000	3,190	<380	NS	<380
Chrysene	392,000	8,750	<380	NS	<380
Dibenz(a,h)anthracene	390	10	<380	NS	<380
Indeno(1,2,3-cd)pyrene	3,920	90	<370	NS	<380
Naphthalene	460,000	65,000	<380	NS	<380
2-Methylnaphthalene	4,090,000	62,600	<380	NS	<380
METALS (mg/kg)					
Aluminum	1,020,000	15,600	12000	NS	15000
Antimony	409	6	<2.1	NS	<2.1
Arsenic	1.91	0.04	**6.5**	NS	**4.9**
Chromium	463	15	21	NS	23

GP-7 (06-2007)						
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-7-1'	NS	GP-7-5'	GP-7-15'
Benzo(a)pyrene	390	10	**21000**	NS	<44	**1500**
Benzo(b)fluoranthene	3,920	90	**18000**	NS	<46	1300
Benzo(k)fluoranthene	39,200	880	18000	NS	<42	1500
Benzo(a)anthracene	3,920	90	**22000**	NS	49	1700
Carbazole	143,000	3,190	1600	NS	<51	380
Chrysene	392,000	8,750	22000	NS	<57	1700
Dibenz(a,h)anthracene	390	10	3300	NS	<62	240
Indeno(1,2,3-cd)pyrene	3,920	90	13000	NS	<70	860
Naphthalene	460,000	65,000	<1300	NS	<72	440
2-Methylnaphthalene	4,090,000	62,600	<860	NS	<48	250

GP-8 (06-2007)						
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-8-1'	NS	GP-8-5'	GP-8-13'
Benzo(a)pyrene	390	10	**10000**	NS	**600**	<40
Benzo(b)fluoranthene	3,920	90	**8200**	NS	500	<42
Benzo(k)fluoranthene	39,200	880	9900	NS	550	<38
Benzo(a)anthracene	3,920	90	**11000**	NS	550	37
Carbazole	143,000	3,190	2000	NS	<47	<47
Chrysene	392,000	8,750	11000	NS	510	<52
Dibenz(a,h)anthracene	390	10	**1600**	NS	98	<57
Indeno(1,2,3-cd)pyrene	3,920	90	**7800**	NS	510	<65
Naphthalene	460,000	65,000	<630	NS	<65	<66
2-Methylnaphthalene	4,090,000	62,600	<420	NS	<44	<44

GP-1 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-1-1'	NS	GP-1-18'
Benzo(a)pyrene	390	10	**1900**	NS	<370
Benzo(b)fluoranthene	3,920	90	2300	NS	<370
Benzo(k)fluoranthene	39,200	880	1200	NS	<370
Benzo(a)anthracene	3,920	90	1500	NS	<370
Carbazole	143,000	3,190	<3500	NS	<370
Chrysene	392,000	8,750	1800	NS	<370
Dibenz(a,h)anthracene	390	10	<3500	NS	<370
Indeno(1,2,3-cd)pyrene	3,920	90	910	NS	<380
Naphthalene	460,000	65,000	<3500	NS	<370
2-Methylnaphthalene	4,090,000	62,600	<3500	NS	<370
METALS (mg/kg)					
Aluminum	1,020,000	15,600	14000	NS	4600
Antimony	409	6	<1.9	NS	<2.2
Arsenic	1.91	0.04	**4.8**	NS	**7.5**
Chromium	463	15	23	NS	9.4

MW-1 (06-2007)						
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			MW-1-1'	NS	MW-1-5'	MW-1-13'
Benzo(a)pyrene	390	10	55	NS	1600	94
Benzo(b)fluoranthene	3,920	90	<44	NS	1500	78
Benzo(k)fluoranthene	39,200	880	57	NS	1700	82
Benzo(a)anthracene	3,920	90	67	NS	2200	100
Carbazole	143,000	3,190	<49	NS	360	<47
Chrysene	392,000	8,750	66	NS	2200	110
Dibenz(a,h)anthracene	390	10	<60	NS	280	<57
Indeno(1,2,3-cd)pyrene	3,920	90	<67	NS	1100	<64
Naphthalene	460,000	65,000	<69	NS	130	<66
2-Methylnaphthalene	4,090,000	62,600	<45	NS	85	<44

HA-1 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			HA-1-0.5'	NS	NS
Benzo(a)pyrene	390	10	**6100**	NS	NS
Benzo(b)fluoranthene	3,920	90	6500	NS	NS
Benzo(k)fluoranthene	39,200	880	4700	NS	NS
Benzo(a)anthracene	3,920	90	**6300**	NS	NS
Carbazole	143,000	3,190	320	NS	NS
Chrysene	392,000	8,750	6800	NS	NS
Dibenz(a,h)anthracene	390	10	1300	NS	NS
Indeno(1,2,3-cd)pyrene	3,920	90	**4300**	NS	NS
Naphthalene	460,000	65,000	<3600	NS	NS
2-Methylnaphthalene	4,090,000	62,600	<3600	NS	NS
METALS (mg/kg)					
Aluminum	1,020,000	15,600	5600	NS	NS
Antimony	409	6	190	NS	NS
Arsenic	1.91	0.04	**5.9**	NS	NS
Chromium	463	15	13	NS	NS

GP-10 (06-2007)						
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-10-1'	NS	GP-10-5'	GP-10-19'
Benzo(a)pyrene	390	10	3800	NS	29000	<41
Benzo(b)fluoranthene	3,920	90	3500	NS	23000	<43
Benzo(k)fluoranthene	39,200	880	3400	NS	30000	<39
Benzo(a)anthracene	3,920	90	**4300**	NS	46000	<34
Carbazole	143,000	3,190	<220	NS	11000	<48
Chrysene	392,000	8,750	4700	NS	36000	<53
Dibenz(a,h)anthracene	390	10	**740**	NS	**5300**	<58
Indeno(1,2,3-cd)pyrene	3,920	90	2700	NS	**14000**	<65
Naphthalene	460,000	65,000	<310	NS	210000	<67
2-Methylnaphthalene	4,090,000	62,600	210	NS	69000	<45

GP-3 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			NS	GP-3-3'	GP-3-5'
Benzo(a)pyrene	390	10	NS	**970**	78
Benzo(b)fluoranthene	3,920	90	NS	1100	80
Benzo(k)fluoranthene	39,200	880	NS	720	<410
Benzo(a)anthracene	3,920	90	NS	850	70
Carbazole	143,000	3,190	NS	44	<410
Chrysene	392,000	8,750	NS	1000	78
Dibenz(a,h)anthracene	390	10	NS	<410	<410
Indeno(1,2,3-cd)pyrene	3,920	90	NS	500	44
Naphthalene	460,000	65,000	NS	<410	<410
2-Methylnaphthalene	4,090,000	62,600	NS	<410	<410
METALS (mg/kg)					
Aluminum	1,020,000	15,600	NS	16000	17000
Antimony	409	6	NS	<2.4	<2.3
Arsenic	1.91	0.04	NS	**4.5**	**5.8**
Chromium	463	15	NS	25	28

GP-9 (06-2007)						
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-9-1'	NS	GP-9-5'	GP-9-15'
Benzo(a)pyrene	390	10	**2200**	NS	53	<40
Benzo(b)fluoranthene	3,920	90	1800	NS	49	<42
Benzo(k)fluoranthene	39,200	880	2200	NS	49	<38
Benzo(a)anthracene	3,920	90	2300	NS	58	<34
Carbazole	143,000	3,190	1100	NS	<52	<48
Chrysene	392,000	8,750	2500	NS	69	<52
Dibenz(a,h)anthracene	390	10	260	NS	<63	<58
Indeno(1,2,3-cd)pyrene	3,920	90	1400	NS	<71	<65
Naphthalene	460,000	65,000	780	NS	<72	<66
2-Methylnaphthalene	4,090,000	62,600	<170	NS	<48	<44

GP-13 (06-2007)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-13-1'	NS	GP-13-5'
Benzo(a)pyrene	390	10	**16000**	NS	**5800**
Benzo(b)fluoranthene	3,920	90	**15000**	NS	**5700**
Benzo(k)fluoranthene	39,200	880	16000	NS	5300
Benzo(a)anthracene	3,920	90	**22000**	NS	7300
Carbazole	143,000	3,190	6000	NS	2400
Chrysene	392,000	8,750	24000	NS	8200
Dibenz(a,h)anthracene	390	10	**3500**	NS	**1200**
Indeno(1,2,3-cd)pyrene	3,920	90	**13000**	NS	**4300**
Naphthalene	460,000	65,000	14000	NS	3400
2-Methylnaphthalene	4,090,000	62,600	2300	NS	1100

GP-8 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			NS	GP-8-4'	GP-8-10'
Benzo(a)pyrene	390	10	NS	2900	**5700**
Benzo(b)fluoranthene	3,920	90	NS	3000	5700
Benzo(k)fluoranthene	39,200	880	NS	1500	3300
Benzo(a)anthracene	3,920	90	NS	2000	**5400**
Carbazole	143,000	3,190	NS	<3600	<3600
Chrysene	392,000	8,750	NS	2200	5400
Dibenz(a,h)anthracene	390	10	NS	**400**	<3600
Indeno(1,2,3-cd)pyrene	3,920	90	NS	1200	3500
Naphthalene	460,000	65,000	NS	<4000	<3600
2-Methylnaphthalene	4,090,000	62,600	NS	<4000	<3600
METALS (mg/kg)					
Aluminum	1,020,000	15,600	NS	25000	7700
Antimony	409	6	NS	<2.3	<0.99
Arsenic	1.91	0.04	NS	**8.7**	**6.8**
Chromium	463	15	NS	38	14

GP-11 (06-2007)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-11-1'	NS	GP-11-5'
Benzo(a)pyrene	390	10	**9600**	NS	150
Benzo(b)fluoranthene	3,920	90	**7800**	NS	170
Benzo(k)fluoranthene	39,200	880	10000	NS	160
Benzo(a)anthracene	3,920	90	**15000**	NS	180
Carbazole	143,000	3,190	**10000**	NS	<46
Chrysene	392,000	8,750	17000	NS	220
Dibenz(a,h)anthracene	390	10	**1900**	NS	<56
Indeno(1,2,3-cd)pyrene	3,920	90	**5500**	NS	99
Naphthalene	460,000	65,000	66000	NS	<65
2-Methylnaphthalene	4,090,000	62,600	25000	NS	<43

GP-5 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-5-2'	GP-5-4'	NS
Benzo(a)pyrene	390	10	**6600**	220	NS
Benzo(b)fluoranthene	3,920	90	**7800**	390	NS
Benzo(k)fluoranthene	39,200	880	3800	<370	NS
Benzo(a)anthracene	3,920	90	**7500**	270	NS
Carbazole	143,000	3,190	1700	61	NS
Chrysene	392,000	8,750	7900	290	NS
Dibenz(a,h)anthracene	390	10	**1900**	<370	NS
Indeno(1,2,3-cd)pyrene	3,920	90	3200	120	NS
Naphthalene	460,000	65,000	3900	<370	NS
2-Methylnaphthalene	4,090,000	62,600	2400	48	NS
METALS (mg/kg)					
Aluminum	1,020,000	15,600	1500	6300	NS
Antimony	409	6	3.3	<1.1	NS
Arsenic	1.91	0.04	1.1	**2.6**	NS
Chromium	463	15	7.4	11	NS

GP-12 (06-2007)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-12-1'	GP-12-4'	NS
Benzo(a)pyrene	390	10	**13000**	**400**	NS
Benzo(b)fluoranthene	3,920	90	**12000**	440	NS
Benzo(k)fluoranthene	39,200	880	14000	370	NS
Benzo(a)anthracene	3,920	90	**16000**	370	NS
Carbazole	143,000	3,190	6600	<46	NS
Chrysene	392,000	8,750	19000	400	NS
Dibenz(a,h)anthracene	390	10	**2200**	59	NS
Indeno(1,2,3-cd)pyrene	3,920	90	**6100**	240	NS
Naphthalene	460,000	65,000	27000	<65	NS
2-Methylnaphthalene	4,090,000	62,600	9500	<43	NS

MW-3 (06-2007)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			MW-3-1'	NS	MW-3-5'
Benzo(a)pyrene	390	10	**1800**	NS	**1200**
Benzo(b)fluoranthene	3,920	90	2100	NS	1500
Benzo(k)fluoranthene	39,200	880	1600	NS	1200
Benzo(a)anthracene	3,920	90	2400	NS	1300
Carbazole	143,000	3,190	580	NS	630
Chrysene	392,000	8,750	2800	NS	1600
Dibenz(a,h)anthracene	390	10	**390**	NS	250
Indeno(1,2,3-cd)pyrene	3,920	90	990	NS	780
Naphthalene	460,000	65,000	1700	NS	910
2-Methylnaphthalene	4,090,000	62,600	590	NS	330

GP-4 (08-2006)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-4-2'	NS	GP-4-8'
Benzo(a)pyrene	390	10	**12000**	NS	330
Benzo(b)fluoranthene	3,920	90	**15000**	NS	370
Benzo(k)fluoranthene	39,200	880	5200	NS	340
Benzo(a)anthracene	3,920	90	**16000**	NS	420
Carbazole	143,000	3,190	5800	NS	110
Chrysene	392,000	8,750	16000	NS	480
Dibenz(a,h)anthracene	390	10	<3600	NS	<360
Indeno(1,2,3-cd)pyrene	3,920	90	6400	NS	190
Naphthalene	460,000	65,000	22000	NS	120
2-Methylnaphthalene	4,090,000	62,600	8100	NS	58
METALS (mg/kg)					
Aluminum	1,020,000	15,600	3400	NS	4100
Antimony	409	6	57	NS	2
Arsenic	1.91	0.04	**2.4**	NS	1.7
Chromium	463	15	22	NS	7.6

GP-14 (06-2007)					
Analyte	Industrial SSRCL	Residential SSRCL	0-2 ft. bgs	2-4 ft. bgs	>4 ft. bgs
SVOC (ug/kg)			GP-14-1'	NS	GP-14-5'
Benzo(a)pyrene	390	10	**5300**	NS	**3100**
Benzo(b)fluoranthene	3,920	90	**4500**	NS	3700
Benzo(k)fluoranthene	39,200	880	5600	NS	3000
Benzo(a)anthracene	3,920	90	**6300**	NS	3600
Carbazole	143,000	3,190	2100	NS	<460
Chrysene	392,000	8,750	6700	NS	3700
Dibenz(a,h)anthracene	390	10	800	NS	<560
Indeno(1,2,3-cd)pyrene	3,920	90	3500	NS	2200
Naphthalene	460,000	65,000	1500	NS	<650
2-Methylnaphthalene	4,090,000	62,600	1100	NS	<430

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6870 S. 13th Street
OAK CREEK, WISCONSIN

FIGURE 5
SOIL CONCENTRATION MAP

Drawn By:	MDO	Date Drawn:	11/18/2011
Reviewed By:	KA	Date Reviewed:	11/2011
Scale:	1" = 30'	Plot Date:	11/2011
Project Number.:			

MW-2						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	*2.0 J*	<1.3	*2.4 J*	<1.4
Arsenic	10	1	*5.3 J*	*2.7 J*	*5.1 J*	*5.0 J*
Cadmium	5	0.5	<0.45	<0.45	<0.26	<0.26
Iron	300	150	21.2 J	119	**588**	**1,240**
Lead	15	1.5	*1.5 J*	<1.3	<1.7	<1.7
Manganese	50	25	46.4	**247**	**152**	**96.7**
Nickel	100	20	5.7 J	6.8 J	6.8 J	5.5 J
Thallium	2	0.4	**2.5 J**	**3.6 J**	*1.4 J*	**2.5 J**
VOCs						
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41
MTBE	60	12	*29.5*	*22.4*	*12.2*	8.4
SVOCs						
Naphthalene	100	10	<0.68	<0.70	<0.70	<0.77

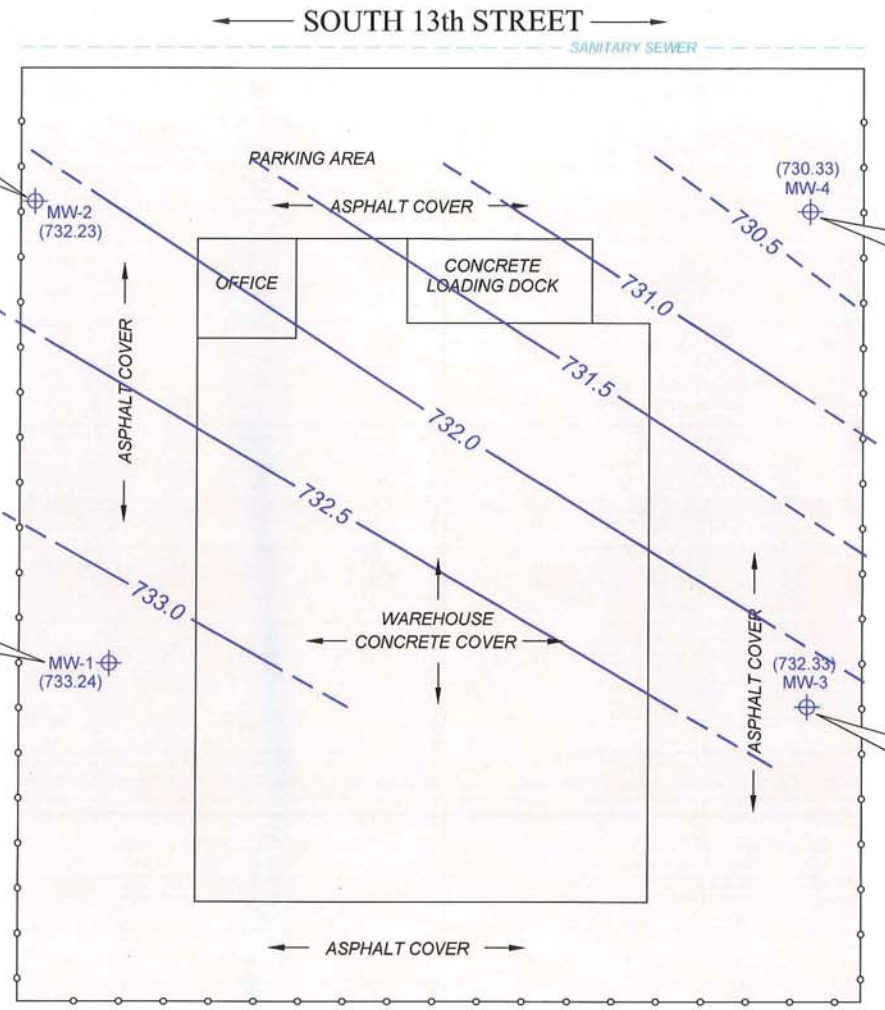
MW-1						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	<1.3	<1.3	*2.4 J*	<1.4
Arsenic	10	1	*3.3 J*	*2.8 J*	*1.9 J*	*2.6 J*
Cadmium	5	0.5	<0.45	**6.0**	*2.3 J*	0.42 J
Iron	300	150	118	<3.7	**488**	*223*
Lead	15	1.5	*1.7 J*	<1.3	<1.7	<1.7
Manganese	50	25	**216**	**228**	**418**	**335**
Nickel	100	20	8.5 J	9.7 J	6.8 J	7.5 J
Thallium	2	0.4	**2.3 J**	**2.2 J**	*1.5 J*	**2.9 J**
VOCs						
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41
MTBE	60	12	1.4	1.5	1.5	1.2
SVOCs						
Naphthalene	100	10	<0.72	<0.69	<0.70	<0.76

LEGEND

- GROUNDWATER MONITORING WELL LOCATION
- SURFACE PAVEMENT CAP
- (733.24) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 732.0 — GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL. DASHED WHERE INFERRED.
- J ESTIMATED VALUE
- ug/L MICROGRAMS PER LITER
- < INDICATES RESULT BELOW LABORATORY REPORTING LIMIT
- ES ENFORCEMENT STANDARD (ug/L)
- PAL PREVENTIVE ACTION LIMIT (ug/L)

NOTE:
ALL VOC, SVOC AND METAL CONCENTRATIONS ARE PRESENTED IN ug/L.

METALS EXCEEDING ESs SUGGEST REGIONAL CONDITIONS RATHER THAN SITE IMPACT OR SOURCE; THEREFORE, AN ISOCONTOUR IS NOT PROVIDED



MW-4						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	*1.5 J*	<1.3	2.1 J	**7.5 J**
Arsenic	10	1	2.1 J	*3.4 J*	*1.7 J*	**17.3 J**
Cadmium	5	0.5	<0.45	<0.45	<0.26	<0.26
Iron	300	150	<3.7	<3.7	51.2	64.3 J
Lead	15	1.5	*2.6 J*	<1.3	<1.7	<1.7
Manganese	50	25	**57.1**	**77.6**	**82.2**	**70.9**
Nickel	100	20	14.1	*23.5*	*21.0*	7.2 J
Thallium	2	0.4	**2.1 J**	*1.9 J*	<1.3	*1.9 J*
VOCs						
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41
MTBE	60	12	<0.61	1.1	1.1	0.74 J
SVOCs						
Naphthalene	100	10	<0.68	<0.70	<0.68	<0.70

MW-3						
Metals	**ES**	**PAL**	**11/2/09**	**3/16/10**	**6/28/10**	**9/22/10**
Antimony	6	1.2	*3.5 J*	*3.3 J*	*2.5 J*	<1.4
Arsenic	10	1	*7.9 J*	*6.9 J*	**15.0 J**	*2.2 J*
Cadmium	5	0.5	<0.45	<0.45	<0.26	<0.26
Iron	300	150	**590**	11.4 J	**2,780**	105
Lead	15	1.5	1.4 J	<1.3	<1.7	<1.7
Manganese	50	25	**226**	8.1	**821**	**103**
Nickel	100	20	1.3 J	2.1 J	2.3 J	*20.3*
Thallium	2	0.4	**2.8 J**	**3.2 J**	<1.3	**2.2 J**
VOCs						
Benzene	5	0.5	*0.56 J*	*1.4*	*1.5*	*2.0*
MTBE	60	12	<0.61	<0.61	<0.61	<0.61
SVOCs						
Naphthalene	100	10	*18.5*	*31.6*	*41.7*	*46.9*

N

SCALE IN FEET
0 30

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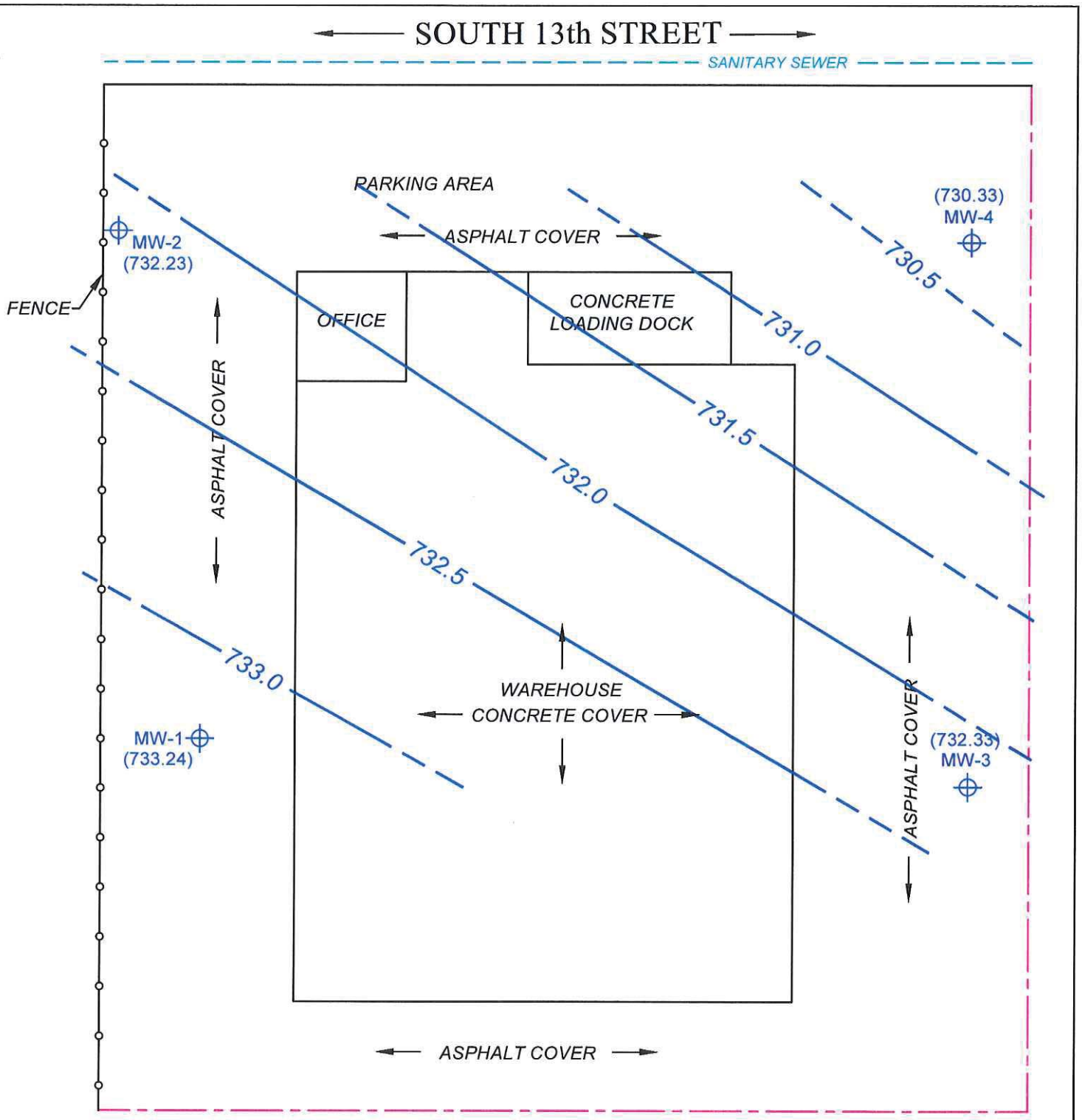
Rev.	By:	Disc.:	Date:

6870 S. 13th Street
OAK CREEK, WISCONSIN

FIGURE 6
GROUNDWATER CONCENTRATION MAP
SEPTEMBER 2010

Drawn By:	MDO	Date Drawn:	11/15/2011
Reviewed By:	KA	Date Reviewed:	11/2011
Scale:	1" = 30'	Plot Date:	11/2011
Project Number.:			



LEGEND

GROUNDWATER MONITORING WELL LOCATION

(733.24) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

732.0 GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL.

N

SCALE IN FEET

0 30

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Rev.		By:	Date:
Rev.		By:	Date:

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OAK CREEK, WI

FIGURE 7
GROUNDWATER ELEVATIONS
SEPTEMBER 22, 2010

Drawn By: MDO	Date Drawn: 02/17/2011
Reviewed By: KA	Date Reviewed: 02/2011
Scale: 1" = 30'	Plot Date: 02/2011
Project Name: Ashland Performance Materials Facility	

Table 1
Soil Sample Analytical Results and Residual Contaminant Level Screening
GIS Registry Checklist Form 4400-245
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI
August 2006

Analyte	Units	Industrial	Residential	Soil Borings (August 31, 2006)												
				GP-1-1'	GP-1-18'	GP-2-2'	GP-2-6.5'	GP-3-3'	GP-3-5'	GP-4-2'	GP-4-6'	GP-5-2'	GP-5-4'	GP-6-4'	GP-6-10'	HA-1-0.5'
Acetone	µg/kg	920,000,000	141,000,000	<5.5	<4	29.3	<4.68	36.7	<4.14	<3.73	<4.7	<4.3	14.2	20.6	8.96	<3.8
Acenapthylene	µg/kg	NC	NC	<3500	<370	<380	<380	98	<410	6300	110	2200	43	<4000	430	450
Acenapthene	µg/kg	61,300,000	939,000	<3500	<370	<380	<380	110	<410	4200	61	2200	74	590	340	420
Anthracene	µg/kg	307,000,000	4,690,000	410	<370	<380	<380	190	<410	12000	280	4900	150	930	1400	1800
Benzene	µg/kg	2,700	160	3.31	<1.52	<1.57	2.62	1.8	<1.57	<1.42	<1.79	4.16	3.8	2.91	1.68	26.9
Benzo(a)pyrene	µg/kg	390	10	**1900**	<370	<370	<380	**970**	*76*	**12000**	*330*	**6600**	*220*	**2500**	**5700**	**6100**
Benzo(b)fluoranthene	µg/kg	3,920	90	*2300*	<370	<370	<380	*1100*	80	**15000**	*370*	**7800**	*390*	*3000*	*6700*	**6500**
Benzo(g,h,i)perylene	µg/kg	NC	NC	1100	<370	<370	<380	570	52	6200	190	4100	140	1600	3800	4200
Benzo(k)fluoranthene	µg/kg	39,200	880	*1200*	<370	<370	<380	720	<410	*5200*	240	*3800*	<370	*1500*	*3300*	*4700*
Benzo(a)anthracene	µg/kg	3,920	90	*1500*	<370	<370	<380	*850*	70	**15000**	*420*	**7500**	*270*	*2000*	**5400**	**6300**
Bis(2-ethylhexyl) phthalate	µg/kg	204,000	4,560	<3500	110	<380	<380	230	54	3200	150	<3600	130	<4000	800	900
Butyl Benzyl phthalate	µg/kg	204,000,000	3,130,000	<3500	<370	<380	<380	<410	<410	1200	<360	<3600	<370	<4000	<3600	<3600
Carbon Disulfide	µg/kg	102,000,000	320,000	<1.94	<1.41	2.44	<1.65	<1.56	<1.46	<1.31	<1.65	5.16	<1.53	<1.4	<1.36	<1.34
Carbazole	µg/kg	143,000	3,190	<3500	<370	<380	<380	44	<410	*5800*	110	1700	61	<3600	<3600	320
Chrysene	µg/kg	392,000	8,750	1800	<370	<380	<380	1000	78	*16000*	480	7900	290	2300	5400	6800
Dibenzofuran	µg/kg	4,090,000	62,600	<3500	<370	<380	<380	49	<410	8400	110	2600	63	330	<3600	<3600
Dibenz (a,h)anthracene	µg/kg	390	10	<3500	<370	<380	<380	<410	<410	<3600	<360	**1000**	<370	**400**	<3600	**1300**
Fluoranthene	µg/kg	40,900,000	626,000	3600	<370	<380	<380	1700	170	36000	920	15000	570	4700	9300	12000
Fluorene	µg/kg	40,900,000	626,000	290	<380	<370	<380	130	<410	16000	240	5900	150	790	510	570
Indeno (1,2,3-cd) pyrene	µg/kg	3,920	90	*910*	<380	<370	<380	*500*	44	*6400*	190	*3200*	120	*1200*	*3500*	**4300**
Methyl Ethyl Ketone	µg/kg	130,000,000	9,390,000	26.1	<2.6	<2.6	<3.04	<2.89	<2.69	<2.42	<3.06	<2.79	<2.83	<2.59	<2.52	<2.47
Napthalene	µg/kg	460,000	65,000	<3500	<370	<380	<380	<410	<410	22000	120	3900	<370	<4000	<3600	<3600
Phenanthrene	µg/kg	NC	NC	1200	<370	<380	<380	560	91	47000	910	17000	530	3200	4300	5400
Pyrene	µg/kg	307,000,000	469,000	2500	<370	<380	<380	1500	140	23000	730	14000	500	4600	8500	10000
Toluene	µg/kg	55,000,000	1,250,000	7.63	<2.27	<2.34	4.56	<2.52	<2.35	<2.12	<2.67	<2.44	5.65	3.67	2.49	2.77
2-Methylnapthalene	µg/kg	4,090,000	62,600	<3500	<370	<380	<380	<410	<410	8100	58	2400	46	<4000	<3600	<3600
Aluminum	mg/kg	1,020,000	15,600	14000	4600	12000	15000	16000	*17000*	3400	4100	1500	6300	*25000*	7700	5600
Antimony	mg/kg	409	6	<1.9	<2.2	<2.1	<2.1	<2.4	<2.3	*57*	2	3.3	<1.1	<2.3	<0.99	*190*
Arsenic	mg/kg	1.91	0.04	**4.8**	**7.5**	**6.5**	**4.9**	**4.5**	**5.8**	**2.4**	*1.7*	*1.1*	**2.6**	**8.7**	**6.8**	**5.9**
Barium	mg/kg	204,000	3,130	68	28	64	69	79	74	100	28	27	56	120	38	130
Beryllium	mg/kg	2,040	31	0.63	0.26	0.64	0.75	0.77	0.83	0.16	0.2	0.083	0.31	0.9	0.44	0.2
Cadmium	mg/kg	1,020	16	<0.47	<0.54	<0.52	0.25	<0.59	<0.58	0.27	<0.51	<0.49	<0.55	<0.58	<0.49	0.46
Chromium	mg/kg	463	15	*23*	9.4	*21*	*23*	*25*	*28*	*22*	7.6	7.4	11	*38*	14	13
Cobalt	mg/kg	1,980	64	7.9	5	8.2	9.1	12	9.5	2.2	1.3	0.97	3.1	9.1	5.8	2.9
Copper	mg/kg	NC	NC	21	16	23	23	20	25	32	6	12	25	27	18	96
Lead	mg/kg	NC	NC	41	12	8.7	8.7	21	9.4	15	4	8.2	21	13	24	45
Mercury	mg/kg	27	3.9	0.042	0.012	0.025	0.014	0.041	0.043	0.014	<0.021	0.11	0.021	0.051	0.012	0.026
Nickel	mg/kg	20,400	313	20	12	22	24	21	30	14	4.8	5.5	8.6	26	16	11
Silver	mg/kg	5,110	78	<0.95	<1.1	<1	<1	<1.2	<1.2	0.13	<1	<0.99	<1.1	<1.2	<0.99	0.96
Vanadium	mg/kg	7,150	110	31	15	27	30	35	35	7	8.5	2.7	14	56	19	10
Zinc	mg/kg	30,700	4,690	65	58	46	61	62	59	200	16	15	40	65	40	490

Notes:
µg/kg= micrograms per kilogram
mg/kg = milligrams per kilogram
U = not detected above laboratory reporting limits
BOLD'-result is above Industrial and Residential Soil Screening Residual Contaminant Level (SSRCL) criteria
Italic'-result is above Residential criteria only
<31.6 = Result was non-detect, less than value posted
NC = No Crieteria established
GP-1-1' = sample identification with depth in feet below grade (1' = one foot below grade)
a: 2006 - STLSavannah in Savannah, Georgia for SVOCs by EPA Method 8270C, and Metals by EPA Method 6010B/7410; and
b: 2006 - STL Houston in Houston, Texas for VOCs and acrylates by EPA Method 8260B/5035.

Table 1
Soil Sample Analytical Results and Residual Contaminant Level Screening
GIS Registry Checklist Form 4400-245
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI
June 2007

Analyte	Units	Industrial SSRCL	Residential SSRCL	Soil Borings (June 27 and 28, 2007)																									
				GP-7-1'	GP-7-5'	GP-7-15'	GP-8-1'	GP-8-5'	GP-8-13'	GP-9-1'	GP-9-5'	GP-9-15'	GP-10-1'	GP-10-5'	GP-10-15'	GP-11-1'	GP-11-5'	GP-12-1'	GP-12-4'	GP-13-1'	GP-13-5'	GP-14-1'	GP-14-5'	MW-1-1'	MW-1-5'	MW-1-13'	MW-3-1'	MW-3-5'
Acenapthylene	µg/kg	NC	NC	<700	<39	73	<350	<36	<36	<140	<39	<36	200	2,800	<36	8,200	<35	4,900	<35	1,600	540	470	400	<38	45	<36	190	45
Acenapthene	µg/kg	61,300,000	939,000	2,200	<46	440	1,000	<42	<43	1,800	<47	<43	730	36,000	<43	8,800	<42	5,800	65	7,800	2,700	3,900	950	<45	410	<43	700	590
Anthracene	µg/kg	307,000,000	4,690,000	7,800	<41	860	3,200	65	<38	2,400	<42	<38	1,400	30,000	<39	19,000	<37	14,000	170	15,000	5,200	4,400	1,900	<40	1,300	48	1,300	710
Benzo(a)anthracene	µg/kg	3,920	90	**22,000**	49	*1,700*	**11,000**	*550*	37	*2,300*	58	<34	**4,300**	**46,000**	<34	**15,000**	*180*	**16,000**	*370*	**22,000**	**7,300**	**6,300**	*3,600*	67	*2,200*	*100*	*2,400*	*1,300*
Benzo(a)pyrene	µg/kg	390	10	**21,000**	<44	**1,500**	**10,000**	**600**	<40	**2,200**	*53*	<40	**3,800**	**29,000**	<41	**9,600**	*150*	**13,000**	**400**	**16,000**	**5,800**	**5,300**	**3,100**	*55*	**1,800**	*94*	**1,800**	**1,200**
Benzo(b)fluoranthene	µg/kg	3,920	90	**18,000**	<46	*1,300*	**8,200**	*500*	<42	*1,800*	49	<42	*3,500*	**23,000**	<43	**7,800**	*170*	**12,000**	*440*	**15,000**	**5,700**	**4,500**	**2,700**	<44	*1,500*	78	*2,100*	*1,500*
Benzo(g,h,i)perylene	µg/kg	NC	NC	13,000	<56	960	6,600	410	<51	1,300	<56	<52	2,400	13,000	<52	5,000	95	6,400	270	11,000	3,800	3,400	2,000	<54	1,000	<51	1,000	820
Benzo(k)fluoranthene	µg/kg	39,200	880	*18,000*	<42	*1,500*	*9,800*	550	<38	*2,200*	49	<38	*3,400*	*30,000*	<39	*10,000*	160	*14,000*	370	*16,000*	*5,300*	*5,600*	*3,000*	57	*1,700*	82	*1,600*	*1,200*
Bis(2-ethylhexyl)phthalate	µg/kg	204,000	4,560	<730	72	<73	<360	<37	<37	<140	1,200	<38	<180	<1,600	<38	<670	<37	<670	<37	1,200	<360	<330	<370	<39	<37	<37	<84	<37
Butylbenzylphthalate	µg/kg	204,000,000	3,130,000	<710	<40	<71	<350	<36	<36	<140	<40	<37	<170	<1,500	<37	<660	<36	<650	<36	<660	<350	<330	<360	42	<36	<36	<82	<36
Carbazole	µg/kg	143,000	3,190	1,600	<51	380	2,000	<47	<47	1,100	<52	<48	<220	*11,000*	<48	**10,000**	<46	*6,600*	<46	*6,000*	2,400	2,100	<460	<49	360	<47	580	630
Chrysene	µg/kg	392,000	8,750	*22,000*	<57	1,700	*11,000*	570	<52	2,500	69	<52	4,700	*36,000*	<53	*17,000*	220	*19,000*	400	*24,000*	8,200	6,700	3,700	66	2,200	110	2,800	1,600
Dibenz (a,h)anthracene	µg/kg	390	10	**3,300**	<62	*240*	**1,600**	*98*	<57	*260*	<63	<58	**740**	**5,300**	<58	**1,900**	<56	**2,200**	*59*	**3,500**	**1,200**	**800**	<560	<60	*280*	<57	**390**	*250*
Dibenzofuran	µg/kg	4,090,000	62,600	2,400	<47	380	1,100	<43	<43	1,400	<47	<43	560	*47,000*	<44	15,000	<42	9,300	57	7,600	2,700	3,400	<420	<45	380	<43	460	400
Di-n-butylphthalate	µg/kg	102,000,000	1,560,000	<970	<54	<97	<480	64	<50	<190	73	<50	<240	<2,100	<51	<900	<49	<890	<49	<900	<480	<450	<490	<52	<50	<50	<110	<50
Fluoranthene	µg/kg	40,900,000	626,000	52,000	94	3,900	26,000	1,200	66	6,000	160	<58	9,700	100,000	59	35,000	360	39,000	760	46,000	15,000	15,000	10,000	140	4,900	200	5,400	2,800
Fluorene	µg/kg	40,900,000	626,000	5,500	<57	730	2,400	<52	<53	2,400	<58	<53	1,200	71,000	<53	26,000	52	17,000	110	16,000	5,700	5,800	1,200	<55	990	<53	1,200	840
Indeno (1,2,3-cd) pyrene	µg/kg	3,920	90	**13,000**	<70	*860*	**7,800**	*510*	<65	*1,400*	<71	<65	*2,700*	**14,000**	<65	**5,500**	*99*	**6,100**	*240*	**13,000**	**4,300**	*3,500*	*2,200*	<67	*1,100*	<64	*990*	*780*
Naphthalene	µg/kg	460,000	65,000	<1,300	<72	440	<630	<65	<66	780	<72	<66	<310	*210,000*	<67	*66,000*	<65	27,000	<65	14,000	3,400	1,500	<650	<69	130	<66	1,700	910
Phenanthrene	µg/kg	NC	NC	30,000	<36	3,600	11,000	180	<33	7,400	130	34	3,800	190,000	72	74,000	120	53,000	640	55,000	20,000	17,000	5,800	120	4,000	160	5,600	2,500
Pyrene	µg/kg	307,000,000	469,000	39,000	58	3,400	16,000	740	42	5,700	120	36	8,800	89,000	44	31,000	330	32,000	650	35,000	13,000	14,000	9,200	120	4,200	210	5,300	2,200
2-Methylnapthalene	µg/kg	4,090,000	62,600	<860	<48	250	<420	<44	<44	<170	<48	<44	210	*69,000*	<45	25,000	<43	9,500	<43	2,300	1,100	1,100	<430	<46	95	<44	590	330

Notes:
µg/kg= micrograms per kilogram
BOLD'-result is above Industrial and Residential Soil Screening Residual Contaminant Level (SSRCL) criteria
Italic'-result is above Residential criteria only
<69 = Result was non-detect at or above reporting limit
NC = No Crieteria established
GP-7-1' = sample identification with depth in feet below grade (1' = one foot below grade)
SVOC analytes not shown were not detected above laboratory reporting limits. See analytical report for complete list of SVOCs analyzed.
a: 2006 - STLSavannah in Savannah, Georgia for SVOCs by EPA Method 8270C, and Metals by EPA Method 6010B/7410; and
b: 2006 - STL Houston in Houston, Texas for VOCs and acrylates by EPA Method 8260B/5035.

Table 2
Summary of Groundwater VOC Analytical Results
GIS Registry Checklist Form 4400-245
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI
July 2007 to September 2010

Volatile Organic Compounds (ug/L)	Enforcement Standard (ES) (ug/L)	Preventive Action Limit (PAL) (ug/L)	MW-1							MW-2					MW-3							MW-4			
			7/9/07	11/2/09	3/16/10	6/28/10	6/28/2010 (duplicate)	9/22/10	9/22/2010 (duplicate)	7/9/07	11/2/09	3/16/10	6/28/10	9/22/10	7/9/07	11/2/09	11/2/2009 (duplicate)	3/16/10	3/16/2010 (duplicate)	6/28/10	9/22/10	11/2/09	3/16/10	6/28/10	9/22/10
EPA Method 8260B																									
1,1,1,2-Tetrachloroethane	70	7	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92	<0.92
1,1,1-Trichloroethane	200	40	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
1,1,2-Trichloroethane	5	0.5	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
1,1-Dichloroethane	850	85	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,1-Dichloroethene	7	0.7	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57	<0.57
1,1-Dichloropropene	na	na	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75
1,2,3-Trichlorobenzene	na	na	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
1,2,3-Trichloropropane	60	12	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
1,2,4-Trichlorobenzene	70	14	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
1,2,4-Trimethylbenzene	480(1)	96(1)	<0.97	<0.90	<0.90	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	4.9	1.2	1.1	1.2	1.2	1.3	1.5	<0.97	<0.97	<0.97	<0.97
1,2-Dibromo-3-chloropropane	0.2	0.02	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<0.87	<1.7	<1.7	<1.7	<1.7	<0.87	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7
1,2-Dibromoethane	0.05	0.005	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
1,2-Dichlorobenzene	600	60	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
1,2-Dichloroethane	5	0.5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dichloropropane	5	0.5	<0.46	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.46	<0.49	<0.49	<0.49	<0.49	<0.46	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
1,3,5-Trimethylbenzene	480(1)	96(1)	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	2.4	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
1,3-Dichlorobenzene	1,250	125	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87	<0.87
1,3-Dichloropropane	na	na	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
1,4-Dichlorobenzene	75	15	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95
2,2-Dichloropropane	na	na	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62	<0.62
2-Chlorotoluene	na	na	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
4-Chlorotoluene	na	na	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74	<0.74
Benzene	5	0.5	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	*3.0*	*0.56J*	*0.50J*	*1.4*	*1.4*	*1.5*	*2.0*	<0.41	<0.41	<0.41	<0.41
Bromobenzene	na	na	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82	<0.82
Bromochloromethane	na	na	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
Dichlorobromomethane	0.6	0.06	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56	<0.56
Bromoform	4.4	0.44	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94	<0.94
Bromomethane	10	1	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91	<0.91
Carbon tetrachloride	5	0.5	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
Chlorobenzene	na	na	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
Chlorodibromomethane	60	6	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
Chloroethane	400	80	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
Chloroform	6	0.6	<0.37	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<0.37	<1.3	<1.3	<1.3	<1.3	<0.37	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
Chloromethane	3	0.3	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24
cis-1,2-Dichloroethene	70	7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
cis-1,3-Dichloropropene	0.2(2)	0.02(2)	<0.19	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.19	<0.20	<0.20	<0.20	<0.20	<0.19	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Dibromomethane	na	na	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60	<0.60
Dichlorodifluromethane	1,000	200	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
Diisopropyl Ether	na	na	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76	<0.76
Ethylbenzene	700	140	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	1.4	<0.54	<0.54	<0.54	<0.54	<0.54	0.82J	<0.54	<0.54	<0.54	<0.54
Fluoretrichloromethane	3,490	698	<0.79	na	na	na	na	na	na	<0.79	na	na	na	na	<0.79	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	na	na	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Isopropylbenzene	na	na	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59	<0.59
Methylene Chloride	5	0.5	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	0.47	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Methyl tert-butyl ether	60	12	<0.61	1.4	1.5	1.5	1.5	1.2	1.2	**64**	*29.5*	*22.4*	*12.2*	8.4	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	1.1	1.1	0.74J
Naphthalene	100	10	<0.74	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.74	<0.89	<0.89	<0.89	<0.89	160	*31.1*	*28.8*	*35.7*	*34.7*	*59.4*	*64.6*	<0.89	<0.89	<0.89	<0.89
n-Butylbenzene	na	na	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93	<0.93
n-Propylbenzene	na	na	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81	<0.81
p-Isopropyltoluene	na	na	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
s-Butylbenzene	na	na	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
Styrene	100	10	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
t-Butylbenzene	na	na	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97
Tetrachloroethene	5	0.5	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Toluene	1,000	200	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	0.96	<0.67	<0.67	<0.67	<0.67	<0.67	0.87J	<0.67	<0.67	<0.67	<0.67
trans-1,2-Dichloroethene	100	20	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89
trans-1,3-Dichloropropene	0.2(2)	0.02(2)	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
Trichloroethene	5	0.5	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
Vinyl chloride	0.2	0.02	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Xylenes, Total	10,000	1,000	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	4	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63	<2.63
m-Xylene & p-Xylene	na	na	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	2.1	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8
o-Xylene	na	na	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	1.9	<0.83	<0.83	<0.83	<0.83	<0.83	0.86J	<0.83	<0.83	<0.83	<0.83

Notes:
< = not detected at or above laboratory reporting limits
Italicized indicates an exceedence of WAC Chapter NR 140 Groundwater Quality Standards (PAL).
Bold indicates an exceedence of WAC Chapter NR 140 Groundwater Quality Enforcement Standards (ES).
(1) = Sum of 1,2,4- and 1,3,5-trimethylbenzenes
(2) = Sum of 1,3-dichloropropene isomers (cis/trans)
a: 2006 - STLSavannah in Savannah, Georgia for SVOCs by EPA Method 8270C, and Metals by EPA Method 6010B/7410; and
b: 2006 - STL Houston in Houston, Texas for VOCs and acrylates by EPA Method 8260B/5035.
c: Pace Analytical Services of Green Bay, Wisconsin provided analytical services for groundwater 2009 through 2010

Table 3
Summary of Groundwater SVOC Analytical Results
GIS Registry Checklist Form 4400-245
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI
July 2007 to September 2010

Semi-Volatile Organic Compounds (ug/L)	Enforcement Standard (ES) (ug/L)	Preventive Action Limit (PAL) (ug/L)	MW-1							MW-2					MW-3							MW-4			
			7/9/07	11/2/09	3/16/10	6/28/10	6/28/2010 (duplicate)	9/22/10	9/22/10	7/9/07	11/2/09	3/16/10	6/28/10	9/22/10	7/9/07	11/2/09	11/2/2009 (duplicate)	3/16/10	3/16/2010 (duplicate)	6/28/10	9/22/10	11/2/09	3/16/10	6/28/10	9/22/10
EPA Method 8270C																									
1,2,4-Trichlorobenzene	70	14	<1.9	<0.90	<0.85	<0.86	<0.86	<0.94	<0.94	<1.9	<0.84	<0.86	<0.86	<0.95	<2.9	<0.85	<0.87	<0.86	<0.87	<1.7	<1.7	<0.84	<0.87	<0.84	<0.87
1,2-Dichlorobenzene	600	60	<1.9	<0.73	<0.69	<0.70	<0.70	<0.77	<0.77	<1.8	<0.68	<0.70	<0.70	<0.78	<2.8	<0.69	<0.71	<0.70	<0.71	<1.4	<1.4	<0.68	<0.71	<0.68	<0.71
1,3-Dichlorobenzene	1,250	125	<1.9	<0.85	<0.81	<0.82	<0.82	<0.90	<0.90	<1.9	<0.79	<0.82	<0.82	<0.91	<2.8	<0.81	<0.83	<0.82	<0.83	<1.6	<1.7	<0.79	<0.83	<0.79	<0.83
1,4-Dichlorobenzene	75	15	<1.9	<0.89	<0.84	<0.85	<0.85	<0.93	<0.93	<1.9	<0.83	<0.85	<0.85	<0.94	<2.8	<0.84	<0.86	<0.85	<0.86	<1.7	<1.7	<0.83	<0.86	<0.83	<0.86
1-Chloropropane	na	na	<0.62	<0.85	<0.81	<0.81	<0.81	<0.89	<0.89	<0.61	<0.79	<0.81	<0.81	<0.90	<0.92	<0.81	<0.82	<0.81	<0.82	<1.6	<1.6	<0.79	<0.82	<0.79	<0.82
2,4,5-Trichlorophenol	na	na	<1.2	<1.0	<0.98	<0.99	<0.99	<1.1	<1.1	<1.2	<0.96	<0.99	<0.99	<1.1	<1.8	<0.98	<1.0	<0.99	<1.0	<1.9	<2.0	<0.96	<1.0	<0.96	<1.0
2,4,6-Trichlorophenol	na	na	<0.89	<1.1	<1.0	<1.1	<1.1	<1.2	<1.2	<0.87	<1.0	<1.1	<1.1	<1.2	<1.3	<1.0	<1.1	<1.1	<1.1	<2.1	<2.1	<1.0	<1.1	<1.0	<1.1
2,4-Dichlorophenol	na	na	<0.88	<1.2	<1.1	<1.1	<1.1	<1.2	<1.2	<0.87	<1.1	<1.1	<1.1	<1.3	<1.3	<1.1	<1.1	<1.1	<1.1	<2.2	<2.3	<1.1	<1.1	<1.1	<1.1
2,4-Dimethylphenol	na	na	<0.74	<1.2	<1.1	<1.1	<1.1	<1.2	<1.2	<0.72	<1.1	<1.1	<1.1	<1.2	7	<1.1	<1.1	1.2J	1.2J	<2.2	<2.3	<1.1	<1.1	<1.1	<1.1
2,4-Dinitrophenol	na	na	<2.3	<2.1	<2.0	<2.0	<2.0	<2.2	<2.2	<2.3	<2.0	<2.0	<2.0	<2.3	<3.4	<2.0	<2.1	<2.0	<2.1	<4.0	<4.1	<2.0	<2.1	<2.0	<2.1
2,4-Dinitrotoluene	0.05	0.005	<0.95	<0.83	<0.79	<0.80	<0.80	<0.87	<0.87	<0.93	<0.77	<0.80	<0.80	<0.88	<1.4	<0.79	<0.80	<0.80	<0.80	<1.6	<1.6	<0.77	<0.80	<0.77	<0.80
2,6-Dinitrotoluene	0.05	0.005	<0.68	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<0.67	<1.0	<1.1	<1.1	<1.2	<1.0	<1.1	<1.1	<1.1	<1.1	<2.1	<2.1	<1.0	<1.1	<1.0	<1.1
2-Chloronaphthalene	na	na	<1.3	<0.87	<0.83	<0.83	<0.83	<0.92	<0.92	<1.2	<0.81	<0.83	<0.83	<0.93	<1.9	<0.83	<0.84	<0.83	<0.84	<1.6	<1.7	<0.81	<0.84	<0.81	<0.84
2-Chlorophenol	na	na	<0.86	<0.72	<0.69	<0.69	<0.69	<0.76	<0.76	<0.85	<0.67	<0.69	<0.69	<0.77	<1.3	<0.69	<0.70	<0.69	<0.70	<1.4	<1.4	<0.67	<0.70	<0.67	<0.70
2-Methylnaphthalene	na	na	<1.5	<1.4	<1.3	<1.3	<1.3	<1.5	<1.5	<1.5	<1.3	<1.3	<1.3	<1.5	25	6.4	8	7.1	7	9.6J	9.1J	<1.3	<1.4	<1.3	<1.4
2-Methylphenol	na	na	<0.74	<1.0	<0.95	<0.96	<0.96	<1.1	<1.1	<0.73	<0.94	<0.96	<0.96	<1.1	2.2	<0.95	<0.97	<0.96	<0.97	<1.9	<1.9	<0.94	<0.97	<0.94	<0.97
2-Nitroaniline	na	na	<0.66	<0.86	<0.82	<0.83	<0.83	<0.91	<0.91	<0.65	<0.80	<0.83	<0.83	<0.92	<0.99	<0.82	<0.84	<0.83	<0.84	<1.6	<1.7	<0.80	<0.84	<0.80	<0.84
2-Nitrophenol	na	na	<1.0	<1.4	<1.3	<1.3	<1.3	<1.5	<1.5	<0.98	<1.3	<1.3	<1.3	<1.5	<1.5	<1.3	<1.4	<1.3	<1.4	<2.6	<2.7	<1.3	<1.4	<1.3	<1.4
3,3'-Dichlorobenzidine	na	na	<1.4	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.4	<1.1	<1.1	<1.1	<1.2	<2.1	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	<1.1	<1.1	<1.1
3 & 4-Methylphenol	na	na	<0.72	<0.79	<0.75	<0.76	<0.76	<0.83	<0.83	<0.71	<0.74	<0.76	<0.76	<0.84	4.6	<0.75	<0.77	3.2J	3.3J	<1.5	<1.5	<0.74	<0.77	<0.74	<0.77
3-Nitroaniline	na	na	<0.84	<1.0	<0.95	<0.96	<0.96	<1.1	<1.1	<0.82	<0.93	<0.96	<0.96	<1.1	<1.2	<0.95	<0.97	<0.96	<0.97	<1.9	<1.9	<0.93	<0.97	<0.93	<0.97
4,6-Dinitro-2-methylphenol	na	na	<0.99	<0.77	<0.73	<0.74	<0.74	<0.81	<0.81	<0.97	<0.72	<0.74	<0.74	<0.82	<1.5	<0.73	<0.75	<0.74	<0.75	<1.4	<1.5	<0.72	<0.75	<0.72	<0.75
4-Bromophenyl phenyl ether	na	na	<0.81	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4	<0.80	<1.3	<1.3	<1.3	<1.4	<1.2	<1.3	<1.3	<1.3	<1.3	<2.5	<2.6	<1.3	<1.3	<1.3	<1.3
4-Chloro-3-methylphenol	na	na	<0.92	<1.0	<0.99	<1.0	<1.0	<1.1	<1.1	<0.90	<0.97	<1.0	<1.0	<1.1	<1.4	<0.99	<1.0	<1.0	<1.0	<2.0	<2.0	<0.97	<1.0	<0.97	<1.0
4-Chloroaniline	na	na	<1.0	<0.84	<0.79	<0.80	<0.80	<0.88	<0.88	<0.98	<0.78	<0.80	<0.80	<0.89	<1.5	<0.79	<0.81	<0.80	<0.81	<1.6	<1.6	<0.78	<0.81	<0.78	<0.81
4-Chlorophenyl phenyl ether	na	na	<0.95	<1.2	<1.2	<1.2	<1.2	<1.3	<1.3	<0.93	<1.1	<1.2	<1.2	<1.3	<1.4	<1.2	<1.2	<1.2	<1.2	<2.3	<2.4	<1.1	<1.2	<1.1	<1.2
4-Nitroaniline	na	na	<0.70	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<0.68	<1.1	<1.1	<1.1	<1.2	<1.0	<1.1	<1.1	<1.1	<1.1	<2.1	<2.2	<1.1	<1.1	<1.1	<1.1
4-Nitrophenol	na	na	<0.94	<0.90	<0.86	<0.87	<0.87	<0.95	<0.95	<0.92	<0.84	<0.87	<0.87	<0.96	<1.4	<0.86	<0.87	<0.87	<0.87	<1.7	<1.7	<0.84	<0.87	<0.84	<0.87
Acenaphthene	na	na	<1.0	<0.98	<0.93	<0.94	<0.94	<1.0	<1.0	<1.0	<0.92	<0.94	<0.94	<1.0	20	11.4	12.6	11.8	11.4	12.5	12.4	<0.92	<0.95	<0.92	<0.95
Acenaphthylene	na	na	<1.0	<1.0	<0.98	<0.99	<0.99	<1.1	<1.1	<1.0	<0.96	<0.99	<0.99	<1.1	8.4	3.4J	3.7J	1.9J	1.8J	3.7J	2.5J	<0.96	<1.0	<0.96	<1.0
Anthracene	3,000	600	<0.79	<0.65	<0.61	<0.62	<0.62	<0.68	<0.68	<0.77	<0.60	<0.62	<0.62	<0.69	7.6	5.1	5.5	3.7J	3.6J	4.3J	4.3J	<0.60	<0.63	<0.60	<0.63
Benzo[a]anthracene	na	na	<1.2	<0.63	<0.60	<0.61	<0.61	<0.67	<0.67	<1.2	<0.59	<0.61	<0.61	<0.67	<1.8	<0.60	<0.61	<0.61	<0.61	<1.2	<1.2	<0.59	<0.61	<0.59	<0.63
Benzo[a]pyrene	0.2	0.02	<0.99	<1.0	<0.95	<0.96	<0.96	<1.1	<1.1	<0.97	<0.93	<0.96	<0.96	<1.1	<1.5	<0.95	<0.97	<0.96	<0.97	<1.9	<1.9	<0.93	<0.97	<0.93	<0.97
Benzo[b]fluoranthene	0.2	0.02	<0.94	<1.5	<1.4	<1.4	<1.4	<1.6	<1.6	<0.92	<1.4	<1.4	<1.4	<1.6	<1.4	<1.4	<1.4	<1.4	<1.4	<2.8	<2.9	<1.4	<1.4	<1.4	<1.4
Benzo[g,h,i]perylene	na	na	<1.9	<0.79	<0.76	<0.76	<0.76	<0.84	<0.84	<1.9	<0.74	<0.76	<0.76	<0.85	<2.8	<0.76	<0.77	<0.76	<0.77	<1.5	<1.5	<0.74	<0.77	<0.74	<0.77
Benzo[k]fluoranthene	na	na	<1.1	<1.1	<1.0	<1.0	<1.0	<1.1	<1.1	<1.1	<0.99	<1.0	<1.0	<1.1	<1.6	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<0.99	<1.0	<0.99	<1.0
Bis(2-chloroethoxy)methane	na	na	<0.78	<1.2	<1.2	<1.2	<1.2	<1.3	<1.3	<0.76	<1.1	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.2	<2.3	<2.4	<1.1	<1.2	<1.1	<1.2
Bis(2-chloroethyl)ether	na	na	<0.74	<0.68	<0.65	<0.65	<0.65	<0.72	<0.72	<0.73	<0.63	<0.65	<0.65	<0.72	<1.1	<0.65	<0.66	<0.65	<0.66	<1.3	<1.3	<0.63	<0.69	<0.63	<0.66
Bis(2-ethylhexyl) phthalate	na	na	<1.0	<2.7	<2.5	<2.6	<2.6	<2.8	<2.8	<1.0	<2.5	<2.6	<2.6	<2.9	<1.5	<2.5	<2.6	<2.6	<2.6	<5.0	<5.2	<2.5	<2.6	<2.5	<2.6
Butylbenzylphthalate	na	na	<1.2	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.2	<1.0	<1.1	<1.1	<1.2	<1.7	<1.1	<1.1	<1.1	<1.1	<2.1	<2.2	<1.0	<1.1	<1.0	<1.1
Carbazole	na	na	<0.98	<0.72	<0.68	<0.69	<0.69	<0.76	<0.76	<0.96	<0.67	<0.69	<0.69	<0.76	24	10.1	10.7	8.8	7.1	18.2	16.2	<0.67	<0.69	<0.67	<0.69
Chrysene	0.2	0.02	<1.6	<0.80	<0.76	<0.77	<0.77	<0.85	<0.85	<1.6	<0.75	<0.77	<0.77	<0.86	<2.4	<0.76	<0.78	<0.77	<0.78	<1.5	<1.6	<0.75	<0.78	<0.75	<0.78
Dibenz(a,h)anthracene	na	na	<1.9	<1.4	<1.4	<1.4	<1.4	<1.5	<1.5	<1.8	<1.3	<1.4	<1.4	<1.5	<2.8	<1.4	<1.4	<1.4	<1.4	<2.7	<2.8	<1.3	<1.4	<1.3	<1.4
Dibenzofuran	na	na	<0.81	<1.1	<1.0	<1.0	<1.0	<1.1	<1.1	<0.79	<1.0	<1.0	<1.0	<1.2	14	9.9	10.2	6.9	6.8	9.1J	8.1J	<1.0	<1.1	<1.0	<1.1
Diethylphthalate	na	na	<0.98	<1.4	<1.3	<1.3	<1.3	<1.5	<1.5	<0.96	<1.3	<1.3	<1.3	<1.5	<1.5	<1.3	<1.3	<1.3	<1.3	<2.6	<2.7	<1.3	<1.3	<1.3	<1.3
Dimethyl phthalate	na	na	<0.81	<1.1	<1.0	<1.0	<1.0	<1.1	<1.1	<0.80	<1.0	<1.0	<1.0	<1.1	<1.2	<1.0	<1.0	<1.0	<1.0	<2.0	<2.1	<1.0	<1.0	<1.0	<1.0
Di-n-butylphthalate	100	20	<0.94	<0.92	<0.88	<0.89	<0.89	<0.97	<0.97	<0.92	<0.86	<0.89	<0.89	<0.98	<1.4	<0.88	<0.90	<0.89	<0.90	<1.7	<1.8	<0.86	<0.90	<0.86	<0.90
Di-n-octyl phthalate	na	na	<1.4	<1.6	<1.5	<1.5	<1.5	<1.7	<1.7	<1.4	<1.5	<1.5	<1.5	<1.7	<2.0	<1.5	<1.5	<1.5	<1.5	<3.0	<3.1	<1.5	<1.5	<1.5	<1.5
Fluoranthene	400	80	<1.3	<0.94	<0.89	<0.90	<0.90	<0.99	<0.99	<1.3	<0.88	<0.90	<0.90	<1.0	6.5	4.8J	5	3.5J	3.9J	4.1J	5.0J	<0.88	<0.91	<0.88	<0.91
Fluorene	400	80	<0.85	<1.2	<1.1	<1.1	<1.1	<1.2	<1.2	<0.83	<1.1	<1.1	<1.1	<1.3	27	19.5	20.4	15.1	15	17.2	14.8	<1.1	<1.1	<1.1	<1.1
Hexachlorobenzene	1	0.1	<0.84	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<0.82	<1.1	<1.1	<1.1	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<2.2	<2.2	<1.1	<1.1	<1.1	<1.1
Hexachlorobutadiene	na	na	<2.7	<0.68	<0.65	<0.65	<0.65	<0.72	<0.72	<2.6	<0.63	<0.65	<0.65	<0.72	<4.0	<0.65	<0.66	<0.65	<0.66	<1.3	<1.3	<0.63	<0.66	<0.63	<0.66
Hexachlorocyclopentadiene	na	na	<1.1	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<1.1	<1.1	<1.1	<1.1	<1.2	<1.6	<1.1	<1.1	<1.1	<1.1	<2.1	<2.2	<1.1	<1.1	<1.1	<1.1
Hexachloroethane	na	na	<2.1	<0.60	<0.57	<0.58	<0.58	<0.63	<0.63	<2.1	<0.56	<0.58	<0.58	<0.64	<3.2	<0.57	<0.58	<0.58	<0.58	<1.1	<1.2	<0.56	<0.58	<0.56	<0.58
Indeno[1,2,3-cd]pyrene	na	na	<0.63	<0.69	<0.66	<0.66	<0.66	<0.73	<0.73	<0.62	<0.64	<0.66	<0.66	<0.73	<0.93	<0.66	<0.67	<0.66	<0.67	<1.3	<1.3	<0.64	<0.67	<0.64	<0.67
Isophorone	na	na	<0.63	<1.4	<1.3	<1.4	<1.4	<1.5	<1.5	<0.62	<1.3	<1.4	<1.4	<1.5	<0.94	<1.3	<1.4	<1.4	<1.4	<2.7	<2.7	<1.3	<1.4	<1.3	<1.4
Naphthalene	100	10	<1.3	<0.72	<0.69	<0.70	<0.70	<0.76	<0.76	<1.3	<0.68	<0.70	<0.70	<0.77	**100**	*18.5*	*24.5*	*31.6*	*31.0*	*41.7*	*46.9*	<0.68	<0.70	<0.68	<0.70
Nitrobenzene	na	na	<0.79	<1.4	<1.3	<1.4	<1.4	<1.5	<1.5	<0.77	<1.3	<1.4	<1.4	<1.5	<1.2	<1.3	<1.4	<1.4	<1.4	<2.7	<2.7	<1.3	<1.4	<1.3	<1.4
N-Nitroso-di-n-propylamine	na	na	<0.62	<1.1	<1.0	<1.1	<1.1	<1.2	<1.2	<0.60	<1.0	<1.1	<1.1	<1.2	<0.92	<1.0	<1.1	<1.1	<1.1	<2.1	<2.1	<1.0	<1.1	<1.0	<1.1
N-Nitrosodiphenylamine	7	0.7	<4.3	<2.5	<2.4	<2.4	<2.4	<2.7	<2.7	<4.2	<2.4	<2.4	<2.4	<2.7	<6.4	<2.4	<2.5	<2.4	<2.5	<4.8	<4.9	<2.4	<2.5	<2.4	<2.5
Pentachlorophenol	1	0.1	<0.99	<1.1	<1.1	<1.1	<1.1	<1.2	<1.2	<0.97	<1.0	<1.1	<1.1	<1.2	<1.5	<1.1	<1.1	<1.1	<1.1	<2.1	<2.2	<1.0	<1.1	<1.0	<1.1
Phenanthrene	na	na	<0.70	<0.65	<0.62	<0.63	<0.63	<0.69	<0.69	<0.68	<0.61	<0.63	<0.63	<0.70	40	29.6	31.4	21.3	20.8	24.1	26.3	<0.61	<0.63	<0.61	<0.63
Phenol	6,000	1,200	<0.57	<1.1	<1.0	<1.0	<1.0	<1.1	<1.1	<0.56	<0.99	<1.0	<1.0	<1.1	3	<1.0	<1.0	1.2J	1.1J	<2.0	<2.1	<0.99	<1.0	<0.99	<1.0
Pyrene	250	50	<0.92	<1.7	<1.6	<1.6	<1.6	<1.7	<1.7	<0.90	<1.5	<1.6	<1.6	<1.8	5	3.3J	3.6J	2.3J	2.2J	3.7J	<3.2	<1.5	<1.6	<1.5	<1.6

Notes:
na = not available.
< = not detected at or above laboratory reporting limits
ug/L = micrograms per liter
Italicized indicates an exceedence of WAC Chapter NR 140 Groundwater Quality Standards (PAL).
Bold indicates an exceedence of WAC Chapter NR 140 Groundwater Quality Enforcement Standards (ES).
a: 2006 - STLSavannah in Savannah, Georgia for SVOCs by EPA Method 8270C, and Metals by EPA Method 6010B/7410; and
b: 2006 - STL Houston in Houston, Texas for VOCs and acrylates by EPA Method 8260B/5035.
c: Pace Analytical Services of Green Bay, Wisconsin provided analytical services for groundwater 2009 through 2010

Table 4
Summary of Groundwater Metal Analytical Results
GIS Registry Checklist Form 4400-245
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI
November 2009 to September 2010

Metals (ug/L)	Enforcement Standard (ES) (ug/L)	Preventive Action Limit (PAL) (ug/L)	MW-1						MW-2				MW-3						MW-4			
			11/2/09	3/16/10	6/28/10	6/28/2010 (duplicate)	9/22/10	9/22/2010 (duplicate)	11/2/09	3/16/10	6/28/10	9/22/10	11/2/09	11/2/2009 (duplicate)	3/16/10	3/16/2010 (duplicate)	6/28/10	9/22/10	11/2/09	3/16/10	6/28/10	9/22/10
EPA Methods 6010B/7470																						
Aluminum	na	na	19.8J	13.0J	92.2J	50.3J	34.4J	31.4J	31.1J	79.0J	<11.1	16.8J	12.6J	11.2J	<6.6	9.9J	<11.1	25.2J	13.8J	10.7J	<11.1	84.9J
Antimony	6	1.2	<1.3	<1.3	*2.4J*	<1.4	<1.4	*2.0J*	*2.0J*	<1.3	*2.4J*	<1.4	*3.5J*	*1.5J*	*3.3J*	*1.4J*	*2.5J*	<1.4	*1.5J*	<1.3	*2.1J*	**7.5J**
Arsenic	10	1	*3.3J*	*2.8J*	*1.9J*	*1.8J*	*2.6J*	*3.7J*	*5.3J*	*2.7J*	*5.1J*	*5.0J*	*7.9J*	*6.7J*	*6.9J*	*7.5J*	**15.0J**	*2.2J*	*2.1J*	*3.4J*	*1.7J*	**17.3J**
Barium	2,000	400	86.5	89.0	91.2	91.9	97.5	95.3	143	81.2	57.5	50.1	28.3	29.7	19.0	19.0	42.3	34.8	49.3	34	29.6	32.7
Beryllium	4	0.4	<0.091	<0.091	<0.19	<0.19	<0.19	<0.19	0.095J	<0.091	<0.19	<0.19	<0.091	<0.091	<0.091	<0.091	<0.19	<0.19	<0.091	<0.091	<0.19	<0.19
Cadmium	5	0.5	<0.45	**6.0**	*2.3J*	*2.1J*	0.42J	0.39J	<0.45	<0.45	<0.26	<0.26	<0.45	<0.45	<0.45	<0.45	<0.26	<0.26	<0.45	<0.45	<0.26	<0.26
Calcium	na	na	119,000	116,000	116,000	116,000	112,000	110,000	28,200	100,000	111,000	118,000	21,800	22,900	27,600	27,300	40,200	101,000	104,000	115,000	116,000	32,700
Chromium	100	10	<0.39	<0.39	0.52J	<0.50	<0.50	<0.50	0.93J	0.99J	<0.50	<0.50	<0.39	<0.39	<0.39	<0.39	<0.50	<0.50	<0.39	<0.39	<0.50	<0.50
Cobalt	40	8	2.1J	1.0J	1.5J	1.5J	2.2J	2.1J	0.45J	1.6J	1.7J	0.73J	<0.38	<0.38	<0.38	<0.38	<0.41	1.7J	1.7J	1.4J	1.7J	<0.41
Copper	1,300	130	<0.31	1.3J	<0.42	<0.42	<0.42	0.60J	1.7J	1.7J	<0.42	0.63J	<0.31	<0.31	<0.31	0.72J	<0.42	<0.42	1.0J	2.1J	<0.42	<0.42
Iron	300	150	118	<3.7	**488**	**471**	*223*	*240*	21.2J	119	**588**	**1,240**	**590**	**720**	11.4J	11.6J	**2,780**	105	<3.7	<3.7	51.2	64.3J
Lead	15	1.5	*1.7J*	<1.3	<1.7	*2.4J*	<1.7	<1.7	*1.5J*	<1.3	<1.7	<1.7	1.4J	<1.3	<1.3	<1.3	<1.7	<1.7	*2.6J*	<1.3	<1.7	<1.7
Magnesium	na	na	76,500	65,300	63,000	63,000	68,200	67,100	23,300	78,000	92,900	101,000	5,380	5,750	1,490	1,500	12,700	115,000	119,000	136,000	140,000	2,340
Manganese	50	25	**216**	**228**	**418**	**420**	**335**	**316**	46.4	**247**	**152**	**96.7**	**226**	**251**	8.1	10.5	**821**	**103**	**57.1**	**77.6**	**82.2**	**70.9**
Mercury	2	0.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Nickel	100	20	8.5J	9.7J	6.8J	10.6	7.5J	11.8	5.7J	6.8J	6.8J	5.5J	1.3J	1.2J	2.1J	5.3J	2.3J	*20.3*	14.1	*23.5*	*21.0*	7.2J
Potassium	na	na	2,440	1,660	1,600	1,590	2,500	2,540	8,230	4,600	3,400	3,710	7,930	7,660	13,700	13,400	17,800	3,930	5,600	3,800	3,480	26,900
Selenium	50	10	<2.5	<2.5	<2.0	<2.0	<2.0	<2.0	<2.5	<2.5	<2.0	<2.0	<2.5	<2.5	<2.5	<2.5	<2.0	<2.0	<2.5	<2.5	<2.0	<2.0
Silver	50	10	<0.47	<0.47	<0.52	<0.52	<0.52	0.55J	<0.47	<0.47	0.62J	<0.52	<0.47	<0.47	<0.47	<0.47	<0.52	<0.52	0.59J	<0.47	<0.52	<0.52
Sodium	na	na	76,600	75,900	76,700	76,700	73,700	72,100	114,000	119,000	77,900	53,900	34,500	34,100	55,000	54,100	62,600	59,100	44,600	59,100	57,200	57,300
Thallium	2	0.4	**2.3J**	**2.2J**	*1.5J*	<1.3	**2.9J**	**2.1J**	**2.5J**	**3.6J**	*1.4J*	**2.5J**	**2.8J**	**2.2J**	**3.2J**	**3.0J**	<1.3	**2.2J**	**2.1J**	*1.9J*	<1.3	*1.9J*
Vanadium	30	6	<0.43	<0.43	0.67J	0.30J	1.1J	1.2J	1.4J	1.6J	0.59J	1.2J	0.67J	0.74J	1.3J	0.98J	0.86J	1.3J	0.49J	1.1J	1.0J	1.3J
Zinc	5,000	2,500	<3.6	3.6J	<0.50	2.3J	1.6J	3.4J	<3.6	<3.6	1.9J	<0.50	<3.6	<3.6	<3.6	<3.6	<0.50	<0.50	<3.6	4.5J	6.6J	<0.50

Notes:
na = not available.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
ug/L = micrograms per liter
Italicized indicates an exceedence of WAC Chapter NR 140 Groundwater Quality Standards (PAL).
Bold and outlined indicate an exceedence of WAC Chapter NR 140 Groundwater Quality Enforcement Standards (ES).
a: 2006 - STLSavannah in Savannah, Georgia for SVOCs by EPA Method 8270C, and Metals by EPA Method 6010B/7410; and
b: 2006 - STL Houston in Houston, Texas for VOCs and acrylates by EPA Method 8260B/5035.
c: Pace Analytical Services of Green Bay, Wisconsin provided analytical services for groundwater 2009 through 2010

Table 5
Groundwater Elevations
Case Closure Request 4400-202
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI

Well ID	Depth to Bottom (feet amsl)	Screened Intervals (ft bgs)	Northing	Easting	Date Measured	Well Casing Elevation (feet amsl)	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet amsl)
MW-01	754.11	8 - 18	N/A	N/A	7/9/2007	735.76	3.65	732.11
					11/2/2009	735.76	2.75	733.01
					3/16/2010	735.76	2.21	733.55
					6/28/2010	735.76	2.54	733.22
					9/22/2010	735.76	2.52	733.24
MW-02(1)	748.85	4 - 14	342,336.9974	2,554,769.9625	7/9/2007	734.21	2.80	731.41
					11/2/2009	735.50	1.77	733.73
					3/16/2010	735.50	2.46	733.04
					6/28/2010	735.50	1.73	733.77
					9/22/2010	735.50	3.27	732.23
MW-03	741.19	3 - 8	N/A	N/A	7/9/2007	732.85	1.11	731.74
					11/2/2009	732.85	1.30	731.55
					3/16/2010	732.85	1.21	731.64
					6/28/2010	732.85	1.38	731.47
					9/22/2010	732.85	0.52	732.33
MW-04	753.49	10 - 20	342,333.8888	2,554,953.0186	11/2/2009	733.49	1.86	731.63
					3/16/2010	733.49	2.05	731.44
					6/28/2010	733.49	2.95	730.54
					9/22/2010	733.49	3.16	730.33

Notes:
amsl = above mean sea level
ft bgs = feet below ground surface
btoc = below top of well casing
(1) = An Additional 1.29 feet of well casing at MW-02 was added due to installation of the asphalt pavement.
Well re-surveyed on 11/2/09.

State of Wisconsin
Department of Natural Resources
http://dnr.wi.gov

Impacted Off-Source Property Information

Form 4400-246 (R 3/08)

This fillable form is intended to provide a list of information that must be submitted for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request (Section H). 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 #: 02-41-548266

ACTIVITY NAME: NORTHWEST COATINGS CORP (FORMER)

ID	Off-Source Property Address	Parcel Number	WTM X	WTM Y
A	6826 S 13th St, Oak Creek, WI	7359998004/001/002	689069	274082
B	6881 S 10th St, Oak Creek, WI	7359024000	689100	274042
C				
D				
E				
F				
G				
H				
I				

OFF-SOURCE
A
PROPERTY

Ashland Inc.
.P.O. Box 2219
Columbus, OH 43216
Tel: (614) 790-3333
www.ashland.com

ASHLAND

September 17, 2012

Bliffert Lumber & Fuel Company
6826 South 13th Street
Oak Creek, WI 53154

Milwaukee County
6826 South 13th Street
Oak Creek, WI 53154

RE: Notification of Soil Contamination
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI 53154
FID #: 241257830
BRRTS #: 02-41-548266

To Whom It May Concern:

Ashland Inc., ("Ashland"), the owner of the above-referenced facility, is sending this letter to you at the request of the Wisconsin Department of Natural Resources (WDNR) and in order to comply with the Wisconsin Administrative Code (WAC) Chapter NR 716. Ashland conducted a site investigation at the above facility which identified soil and groundwater contamination associated with regional backfill materials (regional fill) at the site. This contamination is not associated with Ashland's operations, but we are notifying you of its presence.

Ashland has conducted a site investigation as required by the state of Wisconsin. The investigation of the Ashland facility found certain compounds (specifically poly-aromatic hydrocarbons) and metals in soils at concentrations above residual cleanup levels (RCLs) and select metals (manganese, antimony, and arsenic) in groundwater above the Chapter NR 140 enforcement standards.

Soil Conditions:

Soil contamination originating from regional fill conditions has been identified at Ashland Facility located at 6870 South 13th Street, Oak Creek, Wisconsin. Ashland has installed a surface pavement cap to limit contact with soils as the final remedy at the facility. With the approved Maintenance Plan, Ashland has requested the WDNR grant case closure. Closure means that the Department will not require any further investigation or cleanup action to be taken.

The WDNR will not review Ashland's closure request for at least 30 days after the date of this letter. You have a right to contact the WDNR to provide any technical information that indicated why the closure request should not be granted. If you would like to submit any information to the WDNR that is relevant to this closure request, please mail that information to:

OFF-SOURCE
A
PROPERTY

Mr. Eric Amadi, Hydrogeologist
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

If this case is closed, all properties within the site boundaries where soils above the RCLs and groundwater above Chapter NR 140 enforcement standards were found will be listed on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where soils and groundwater above the referenced screening criteria were found at that time the case was closed. This GIS Registry will be available to the general public on the WDNR Internet web site.

If the WDNR grants closure to Ashland's case, you may obtain a copy of this letter granting closure by requesting a copy from Ashland or by writing to the agency at the address given above. You may also obtain a copy on-line by accessing the DNR GIS Registry of Closed Remediation Sites on the Internet at http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2. A copy of the closure letter will also be included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at the following address:

Steven Roach
Ashland, Inc., EHS-DS-4
5200 Blazer Parkway
Dublin, Ohio 43017

Sincerely
Ashland Inc.

Steven Roach
Remediation Manager

Enclosure - Legal Description, Deed, and Map for your property

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PLETE THIS SECTION

s 1, 2, and 3. Also complete
item 4 if Restricted Delivery is desired.
Print your name and address on the reverse
so that we can return the card to you.
Attach this card to the back of the mailpiece,
or on the front if space permits.

. Article Addressed to:

Bliffert Lumber &
Fuel Co.
6826 South 13th St.
Oak Creek, WI
53154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature]
☐ Agent
☐ Addressee

B. Received by (*Printed Name*)

C. Date of Delivery
9/19/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

:. Article Number
(*Transfer from service labe*) 7012 1010 0000 5886 0517

'S Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

OFF-SOURCE
A
PROPERTY

Ashland Inc.
.P.O. Box 2219
Columbus, OH 43216
Tel: (614) 790-3333
www.ashland.com

ASHLAND

September 17, 2012

Bliffert Lumber & Fuel Company
6826 South 13th Street
Oak Creek, WI 53154

Milwaukee County
6826 South 13th Street
Oak Creek, WI 53154

RE: Notification of Groundwater Contamination
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI 53154
FID #: 241257830
BRRTS #: 02-41-548266

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Ashland has conducted a site investigation as required by the state of Wisconsin. The investigation of the Ashland facility found certain compounds (specifically poly-aromatic hydrocarbons) and metals in soils at concentrations above residual cleanup levels (RCLs) and select metals (manganese, antimony, and arsenic) in groundwater above the Chapter NR 140 enforcement standards.

Groundwater Conditions:

Ashland has monitored groundwater conditions at the Ashland facility for five rounds (one round in 2007; one round in 2009 and three rounds in 2010). Ashland is requesting the WDNR to place the groundwater on the WDNR Geographic Information System (GIS) registry of closed remediation sites due to Chapter NR 140 enforcement standards exceeded. The placement of the groundwater on the GIS registry will help to ensure that the groundwater will not be extracted for future use.

The WDNR will not review Ashland's closure request for at least 30 days after the date of this letter. You have a right to contact the WDNR to provide any technical information that indicated why the closure request should not be granted. If you would like to submit any information to the WDNR that is relevant to this closure request, please mail that information to:

OFF-SOURCE
A
PROPERTY

Mr. Eric Amadi, Hydrogeologist
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

If this case is closed, all properties within the site boundaries where soils above the RCLs and groundwater above Chapter NR 140 enforcement standards were found will be listed on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where soils and groundwater above the referenced screening criteria were found at that time the case was closed. This GIS Registry will be available to the general public on the WDNR Internet web site.

If the WDNR grants closure to Ashland's case, you may obtain a copy of this letter granting closure by requesting a copy from Ashland or by writing to the agency at the address given above. You may also obtain a copy on-line by accessing the DNR GIS Registry of Closed Remediation Sites on the Internet at http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2. A copy of the closure letter will also be included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at the following address:

Steven Roach
Ashland, Inc., EHS-DS-4
5200 Blazer Parkway
Dublin, Ohio 43017

Sincerely
Ashland Inc.

Steven Roach
Remediation Manager

Enclosure - Legal Description, Deed, and Map for your property

OFF-SOURCE
A
PROPERTY

ENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
Print your name and address on the reverse so that we can return the card to you.
Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Hilfert Lumber +
Fuel Co.
826 South 13th St.
Oak Creek, WI
53154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery 9/19/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

Article Number
(Transfer from service la 7012 1010 0000 5886 0524

Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

OFF-SOURCE
A
PROPERTY

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Monday, September 17, 2012

City of Oak Creek Land Records Web Portal

Note: 2012 assessment values shown are not finalized - official 2012 values will be finalized in Sept, 2012

There is a software error displaying prior year delinquent taxes. For current status of these parcels contact the City Treasurer's office @ 414-768-6503 or Milw County @ 414-278-4033 or http://gcswebportal.milwaukeecounty.org/gcswebportal

Search By: Parcel

Reset Search | Show Search

Type	Owner	Status	Parcel #	Property Address	Municipality	PLS/Tract	Alt. Parcel #
RE	BLIFFERT LUMBER & FUEL CO	CURRENT OWNER	7359998004	6826 S 10TH ST	CITY OF OAK CREEK		
RE	BLIFFERT LUMBER& FUEL CO	CURRENT OWNER	7359998001	6826 S 13TH ST	CITY OF OAK CREEK		
RE	BLIFFERT LUMBER& FUEL CO	CURRENT OWNER	7359998002	6826 S 13TH ST	CITY OF OAK CREEK		

Legend: = owes prior year taxes Delinquent Current

Parcel
Taxes
Assessments
Documents

View Purchased Documents
View Cart (0)

Tax Year	Prop Type	Parcel Number	Property Address	Owner
2011	Real Estate	7359998001	6826 S 13TH ST	BLIFFERT LUMBER& FUEL CO

Summary

Parcel #:	7359998001
Alt. Parcel #:	
Plat:	NOT AVAILABLE
Acres:	9.224
Block:	
Lot:	

Property Addresses

Primary	Address
✓	6826 S 13TH ST OAK CREEK 53154-1425

Public Land Survey - Tracts

No Tracts were found

District

Code	Description	Category
	COUNTY SALES TAX CREDIT	OTHER DISTRICT
265	LOCAL	OTHER DISTRICT
0900	MATC-0900	TECHNICAL COLLEGE
	MILWAUKEE COUNTY	OTHER DISTRICT
	STATE OF WISCONSIN	OTHER DISTRICT
4018	SCHOOL DISTRICT-4018	REGULAR SCHOOL
5020	MMSD-5020	METRO SEWERAGE

Owners

Name	Status
BLIFFERT LUMBER& FUEL CO	CURRENT OWNER

Legal Description

COM 665.73 FT S OF NW COR SW1/4 SEC. 5-5-22 TH S 316.25 FT E 416.25 FT S 100 FT E TO W LI OF S 10TH ST. N ALG SD W LI 416.25 FT TO S LI OF CSM NO. 1333 TH W TO BEG., & W 1/2 OF VACATED S 10TH ST. ADJ. ON EAST. CONT. 9.224 ACS.

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Report-/Print engine
List & Label ® Version 16
Copyright combit® GmbH 1991 -2010

Note: Internet Explorer 7.0, Firefox or Google Chrome is required!

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Monday, September 17, 2012

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Search By: Parcel

Reset Search | Show Search

Type	Owner	Status	Parcel #	Property Address	Municipality	PLS/Tract	Alt. Parcel #
RE	BLIFFERT LUMBER & FUEL CO	CURRENT OWNER	7359998004	6826 S 10TH ST	CITY OF OAK CREEK		
RE	BLIFFERT LUMBER& FUEL CO	CURRENT OWNER	7359998001	6826 S 13TH ST	CITY OF OAK CREEK		
RE	BLIFFERT LUMBER& FUEL CO	CURRENT OWNER	7359998002	6826 S 13TH ST	CITY OF OAK CREEK		

Legend: = owes prior year taxes Delinquent Current

Parcel
Taxes
Assessments
Documents

View Purchased Documents
View Cart (0)

Tax Year	Prop Type	Parcel Number	Property Address	Owner
2012	Real Estate	7359998002	6826 S 13TH ST	BLIFFERT LUMBER& FUEL CO

Summary

Parcel #:	7359998002
Alt. Parcel #:	
Plat:	NOT AVAILABLE
Acres:	9.133
Block:	
Lot:	

Property Addresses

Primary	Address
☑	6826 S 13TH ST OAK CREEK 53154-1425

Public Land Survey - Tracts

No Tracts were found

District

Code	Description	Category
	COUNTY SALES TAX CREDIT	OTHER DISTRICT
265	LOCAL	OTHER DISTRICT
0900	MATC-0900	TECHNICAL COLLEGE
	MILWAUKEE COUNTY	OTHER DISTRICT
	STATE OF WISCONSIN	OTHER DISTRICT
4018	SCHOOL DISTRICT-4018	REGULAR SCHOOL
5020	MMSD-5020	METRO SEWERAGE

Owners

Name	Status
BLIFFERT LUMBER& FUEL CO	CURRENT OWNER

Legal Description

COM 665.73 FT S OF NW COR SW 1/4 SEC 5-5-22 TH S 316.25 FT E 416.25 FT S 100 FT E TO W LI OF S 10TH ST N ALG SD W LI 416.25 FT TO S LI OF CSM NO 1333 TH W TO BEG & W 1/2 OF VACATED S 10TH ST ADJ ON EAST & EXC PARTS CONVEYED IN DOC# 09881219 FOR S 13TH STR (9.133 ACS)

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List & Label ® Version 16
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Note: Internet Explorer 7.0, Firefox or Google Chrome is required!

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Monday, September 17, 2012

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Search By: Parcel

Reset Search | Show Search

Type	Owner	Status	Parcel #	Property Address	Municipality	PLS/Tract	Alt. Parcel #
RE	BLIFFERT LUMBER & FUEL CO	CURRENT OWNER	7359998004	6826 S 10TH ST	CITY OF OAK CREEK		
RE	BLIFFERT LUMBER& FUEL CO	CURRENT OWNER	7359998001	6826 S 13TH ST	CITY OF OAK CREEK		
RE	BLIFFERT LUMBER& FUEL CO	CURRENT OWNER	7359998002	6826 S 13TH ST	CITY OF OAK CREEK		

Legend: $ = owes prior year taxes Delinquent Current

Parcel
Taxes
Assessments
Documents

View Purchased Documents
View Cart (0)

Tax Year	Prop Type	Parcel Number	Property Address	Owner
2012	Real Estate	7359998004	6826 S 10TH ST	BLIFFERT LUMBER & FUEL CO

Summary

Parcel #:	7359998004
Alt. Parcel #:	
Plat:	NOT AVAILABLE
Acres:	7.421
Block:	
Lot:	

Property Addresses

Primary	Address
✓	6826 S 10TH ST OAK CREEK 53154

Public Land Survey - Tracts

No Tracts were found

District

Code	Description	Category
	COUNTY SALES TAX CREDIT	OTHER DISTRICT
265	LOCAL	OTHER DISTRICT
0900	MATC-0900	TECHNICAL COLLEGE
	MILWAUKEE COUNTY	OTHER DISTRICT
	STATE OF WISCONSIN	OTHER DISTRICT
4018	SCHOOL DISTRICT-4018	REGULAR SCHOOL
5020	MMSD-5020	METRO SEWERAGE

Owners

Name	Status
BLIFFERT LUMBER & FUEL CO	CURRENT OWNER

Legal Description

COM 665.73 FT S & 1100.32 FT E OF NW COR SW 1/4 SEC 5-5-22 TH S 416.25 FT E TO RR ROW NWLY ALG ROW TO S LI OF CSM NO 1333 TH W TO BEG & E 1/3 OF VACATED S 10TH ST ADJ ON WEST & INCL PT CONVEYED IN DOC # 6575569 (7.4217 ACS) MORE OR LESS

Search powered by GCS

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Report-/Print engine
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Copyright combit® GmbH 1991
-2010

Note: Internet Explorer 7.0, Firefox or Google Chrome is required!

OFF-SOURCE
A
PROPERTY
COPY

2

Document Number

WARRANTY DEED

Exempt from fee s 77 25(2r) Wis Stats
LPA 3004 (DT1560) 99

THIS DEED, made by Bliffert Lumber and Fuel Co , GRANTOR, conveys and warrants the property described below to Milwaukee County, GRANTEE, for the sum of Eight Thousand Eight Hundred Dollars and 00/100 ($8,800 00)

Any person named in this deed may make an appeal from the amount of compensation within six months after the date of recording of this deed as set forth in s 32 05(2a) Wisconsin Statutes For the purpose of any such appeal, the amount of compensation stated on the deed shall be treated as the award, and the date the deed is recorded shall be treated as the date of taking and the date of evaluation

Other persons having an interest of record in the property None

Legal Description This (is not) homestead property

LEGAL DESCRIPTION IS ATTACHED HERETO AND MADE A PART HEREOF BY REFERENCE

09881219

DOC.# 09881219

RECORDED 06/07/2010 08:00AM
JOHN LA FAVE
REGISTER OF DEEDS
Milwaukee County, WI
AMOUNT: 13.00
FEE EXEMPT 77.25 #: 2R

This space is reserved for recording data

Return to

Single Source, Inc
Attn Marc McSorley
12750 West North Avenue
Brookfield, Wisconsin 53005

Parcel Identification Number/Tax Key Number
735-9998-001

P. E. Bl
(Signature)

Bliffert Lumber and Fuel Co U.P.
(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

(Signature)

(Print Name)

NOTARY PUBLIC
MARC McSORLEY
STATE OF WISCONSIN

5/10/10
(Date)

State of Wisconsin
Milwaukee) ss
County)
On the above date, this instrument was acknowledged before me by the named person(s)

(Signature, Notary Public, State of Wisconsin)

Marc McSorley
(Print or Type Name, Notary Public, State of Wisconsin)

February 5, 2012
(Date Commission Expires)

Project ID 2505-06-20 This instrument was drafted by Marc McSorley of Single Source, Inc Parcel No 30

OFF-SOURCE
A
PROPERTY
PY

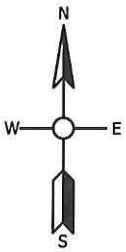
Parcel #30
Bliffert Lumber & Fuel Co.

Fee title in and to the following tract of land in the City of Oak Creek, Milwaukee County, State of Wisconsin, described as a parcel of land in the Northwest ¼ of the Southwest ¼ of Section 5, T5N, R22E. Said parcel includes all land of the owner contained within the following traverse.

Beginning at the Southwest corner of said Section 5;
Thence S 88°44'35" E, 158.40 feet along the South line of Section 5;
Thence N 1°15'24" E, 75.00 feet to the North line W. Rawson Ave.;
Thence N 72°26'16" W, 94.40 feet;
Thence N 9°27'30" W, 152.07 feet to the East line of S. 13th St.;
Thence N 0°00'15" E, 414.97 feet to point "J";
Thence continue N 0°00'15" E, 297.50 feet to the South line of W. North Branch Dr.;
Thence continue N 0°00'15" E, 70.02 feet to the North line of W. North Branch Dr.;
Thence continue N 0°00'15" E, 647.62 feet to point "K";
Thence continue N 0°00'15" E, 313.77 feet;
Thence N 88°48'07" W, 45.01 feet to the West line Section 5;
Thence S 0°00'15" W, 1994.82 feet along said West line to the point of beginning;

Said parcel contains 0.24 Acres more or less of existing right of way.
Said parcel contains 0.09 Acres more or less of new right of way.

OFF-SOURCE
A
PROPERTY



REVISIONS			
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:

Source: Google Maps
Quadrangle: Greendale, WI
Dated: 2011

EHS Support
consider it done
www.ehs-support.com

6870 S. 13th Street
OAK CREEK, WI

FIGURE 1B
SURROUNDING AREA MAP

Drawn By: MDO	Date Drawn: 05/24/2011
Reviewed By: KA	Date Reviewed: 05/2011
Scale: - NTS -	Plot Date: 05/2011
Project Name: Ashland Performance Materials Facility	

OFF-SOURCE
B
PROPERTY

Ashland Inc.
.P.O. Box 2219
Columbus, OH 43216
Tel: (614) 790-3333
www.ashland.com

ASHLAND

September 17, 2012

Ballew LLC
6881 South 10th Street
Oak Creek, WI 53154

RE: Notification of Soil Contamination
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI 53154
FID #: 241257830
BRRTS #: 02-41-548266

To Whom It May Concern:

Ashland Inc., ("Ashland"), the owner of the above-referenced facility, is sending this letter to you at the request of the Wisconsin Department of Natural Resources (WDNR) and in order to comply with the Wisconsin Administrative Code (WAC) Chapter NR 716. Ashland conducted a site investigation at the above facility which identified soil and groundwater contamination associated with regional backfill materials (regional fill) at the site. This contamination is not associated with Ashland's operations, but we are notifying you of its presence.

Ashland has conducted a site investigation as required by the state of Wisconsin. The investigation of the Ashland facility found certain compounds (specifically poly-aromatic hydrocarbons) and metals in soils at concentrations above residual cleanup levels (RCLs) and select metals (manganese, antimony, and arsenic) in groundwater above the Chapter NR 140 enforcement standards.

Soil Conditions:

Soil contamination originating from regional fill conditions has been identified at Ashland Facility located at 6870 South 13th Street, Oak Creek, Wisconsin. Ashland has installed a surface pavement cap to limit contact with soils as the final remedy at the facility. With the approved Maintenance Plan, Ashland has requested the WDNR grant case closure. Closure means that the Department will not require any further investigation or cleanup action to be taken.

The WDNR will not review Ashland's closure request for at least 30 days after the date of this letter. You have a right to contact the WDNR to provide any technical information that indicated why the closure request should not be granted. If you would like to submit any information to the WDNR that is relevant to this closure request, please mail that information to:

Mr. Eric Amadi, Hydrogeologist
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

OFF-SOURCE
B
PROPERTY

If this case is closed, all properties within the site boundaries where soils above the RCLs and groundwater above Chapter NR 140 enforcement standards were found will be listed on the WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where soils and groundwater above the referenced screening criteria were found at that time the case was closed. This GIS Registry will be available to the general public on the WDNR Internet web site.

If the WDNR grants closure to Ashland's case, you may obtain a copy of this letter granting closure by requesting a copy from Ashland or by writing to the agency at the address given above. You may also obtain a copy on-line by accessing the DNR GIS Registry of Closed Remediation Sites on the Internet at http://dnrmaps.wi.gov/imf/imf.jsp?site=brrts2. A copy of the closure letter will also be included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at the following address:

Steven Roach
Ashland, Inc., EHS-DS-4
5200 Blazer Parkway
Dublin, Ohio 43017

Sincerely
Ashland Inc.

Steven Roach
Remediation Manager

Enclosure - Legal Description, Deed, and Map for your property

OFF-SOURCE
B
PROPERTY

COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ballew LLC
6881 South 10th St.
Oak Creek, WI
53154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature]
☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery
9/19/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7012 1010 0000 5886 0531

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

OFF-SOURCE
B
PROPERTY

ASHLAND

Environmental, Health and Safety

Ashland Inc.
P.O. Box 2219
Columbus, OH 43216
Tel: 614-790-3333, Fax: 614-790-6080
www.ashland.com

September 17, 2012

Ballew LLC
6881 South 10th Street
Oak Creek, WI 53154

RE: Notification of Groundwater Contamination
Ashland Performance Materials Facility
6870 South 13th Street
Oak Creek, WI 53154
FID #: 241257830
BRRTS #: 02-41-548266

To Whom It May Concern:

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Groundwater Conditions:

Ashland has monitored groundwater conditions at the Ashland facility for five rounds (one round in 2007; one round in 2009 and three rounds in 2010). Ashland is requesting the WDNR to place the groundwater on the WDNR Geographic Information System (GIS) registry of closed remediation sites due to Chapter NR 140 enforcement standards exceeded. The placement of the groundwater on the GIS registry will help to ensure that the groundwater will not be extracted for future use.

The WDNR will not review Ashland's closure request for at least 30 days after the date of this letter. You have a right to contact the WDNR to provide any technical information that indicated why the closure request should not be granted. If you would like to submit any information to the WDNR that is relevant to this closure request, please mail that information to:

Mr. Eric Amadi, Hydrogeologist
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212-3128

If this case is closed, all properties within the site boundaries where soils above the RCLs and groundwater above Chapter NR 140 enforcement standards were found will be listed on the WDNR

OFF-SOURCE
B
PROPERTY

Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where soils and groundwater above the referenced screening criteria were found at that time the case was closed. This GIS Registry will be available to the general public on the WDNR Internet web site.

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If you need more information, you may contact me at the following address:

Steven Roach
Ashland, Inc., EHS-DS-4
5200 Blazer Parkway
Dublin, Ohio 43017

Sincerely
Ashland Inc.

Steven Roach
Remediation Manager

Enclosure - Legal Description, Deed, and Map for your property

OFF-SOURCE
B
PROPERTY

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ballew LLC
6881 South 10th St.
Oak Creek, WI
53154

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (*Printed Name*)

C. Date of Delivery 9/19/12

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☑ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7012 1010 0000 5886 0548

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

OFF-SOURCE
B
PROPERTY

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Monday, September 17, 2012

City of
Oak Creek Land Records Web Portal

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There is a software error displaying prior year delinquent taxes. For current status of these parcels contact the City Treasurer's office @ 414-768-6503 or Milw County @ 414-278-4033 or http://gcswebportal.milwaukeecounty.org/gcswebportal

Search By: Parcel

Reset Search | Show Searcl

Type	Owner	Status	Parcel #	Property Address	Municipality	PLS/Tract	Alt. Parcel #
RE	BALLEW LLC	CURRENT OWNER	7359024	6881 S 10TH ST	CITY OF OAK CREEK		
RE	BALLEW, LLC	CURRENT OWNER	7359023	6870 R S 13TH ST	CITY OF OAK CREEK		

Legend: = owes prior year taxes Delinquent Current

Parcel
Taxes
Assessments
Documents

View Purchased Documents
View Cart (0)

Tax Year	Prop Type	Parcel Number	Property Address	Owner
2012	Real Estate	7359024	6881 S 10TH ST	BALLEW LLC

Summary

Parcel #:	7359024
Alt. Parcel #:	
Plat:	NOT AVAILABLE
Acres:	1.980
Block:	
Lot:	

Property Addresses

Primary	Address
✓	6881 S 10TH ST OAK CREEK 53154

Public Land Survey - Tracts

No Tracts were found

District

Code	Description	Category
	COUNTY SALES TAX CREDIT	OTHER DISTRICT
265	LOCAL	OTHER DISTRICT
0900	MATC-0900	TECHNICAL COLLEGE
	MILWAUKEE COUNTY	OTHER DISTRICT
	STATE OF WISCONSIN	OTHER DISTRICT
4018	SCHOOL DISTRICT-4018	REGULAR SCHOOL
5020	MMSD-5020	METRO SEWERAGE

Owners

Name	Status
BALLEW LLC	CURRENT OWNER

Legal Description

CERTIFIED SURVEY MAP NO 2310 PARCEL 3 SW 1/4 SEC 5-5-22 (1.980 ACS)

Search powered by GCS

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Report-/Print engine
List & Label ® Version 16:
Copyright combit® GmbH
1991-2010

Note: Internet Explorer 7.0, Firefox or Google Chrome is required!

OFF-SOURCE
B
PROPERTY

DOCUMENT NO.

7646224

STATE BAR OF WISCONSIN FORM 1--1982
WARRANTY DEED

REEL 4451 IMAG 742

This Deed, made between E. M. Construction, Inc., , Grantor,

and Ballew, LLC , Grantee,

Witnesseth, That the said Grantor, for a valuable consideration

conveys to Grantee the following described real estate in Milwaukee County, State of Wisconsin:

1998
REGISTER'S OFFICE } SS
Milwaukee County, WI
RECORDED AT 8 00 AM
DEC - 7 1998
REEL 4451 IMAGE 742
Walter R. Bangel REGISTER OF DEEDS

RETURN TO Harold A. Loufer
Suite 1400
111 E. Kilbourn Ave.
Milwaukee, Wi. 53202

Parcel Number 735 9024

Parcel Three (3) of Certified Survey Map No. 2310, recorded in the Office of the Register of Deeds for Milwaukee County, Wisconsin on April 25, 1974, in Reel 781, Image 1237, as Document No. 4835660, being a part of the Southwest One-quarter (1/4) of Section Five (5), in Township Five (5) North, Range Twenty-two (22) East, in the City of Oak Creek, Milwaukee County, Wisconsin.

TRANSFER
$2,025.00
FFE

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

7646224
RECORD 10.00
RTX 2025.00

Together with all and singular the hereditaments and appurtenances thereunto belonging;
And E. M. Construction, Inc.
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 utility and municipal services, recorded building and use restrictions and covenants, general taxes levied in the year of closing

and will warrant and defend the same.

Dated this 24th day of November, 1998

(SEAL)

• E. M. Construction, Inc.
by Emil Meucci, Jr, President (SEAL)

•

(SEAL)

•

(SEAL)

•

AUTHENTICATION

Signature(s) of Emil Meucci, Jr as President of EM Construction, Inc
authenticated this 24th day of November, 1998

• Michael F. Crowley
TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Harvey A. Pollack/lmm

(Signatures may be authenticated or acknowledged. Both are not necessary.)

*Names of persons signing in any capacity should be typed or printed below their signatures.

ACKNOWLEDGMENT

STATE OF WISCONSIN } ss.
County.

Personally came before me this day of , 19 the above named E. M. Construction, Inc.

to me known to be the person who executed the foregoing instrument and acknowledge the same

•

Notary Public County, Wis
My Commission is permanent (If not, state expiration date , 19)

1000

OFF-SOURCE
B
PROPERTY

REEL 701 IMAGE 1231

CERTIFIED SURVEY MAP NO. 2310

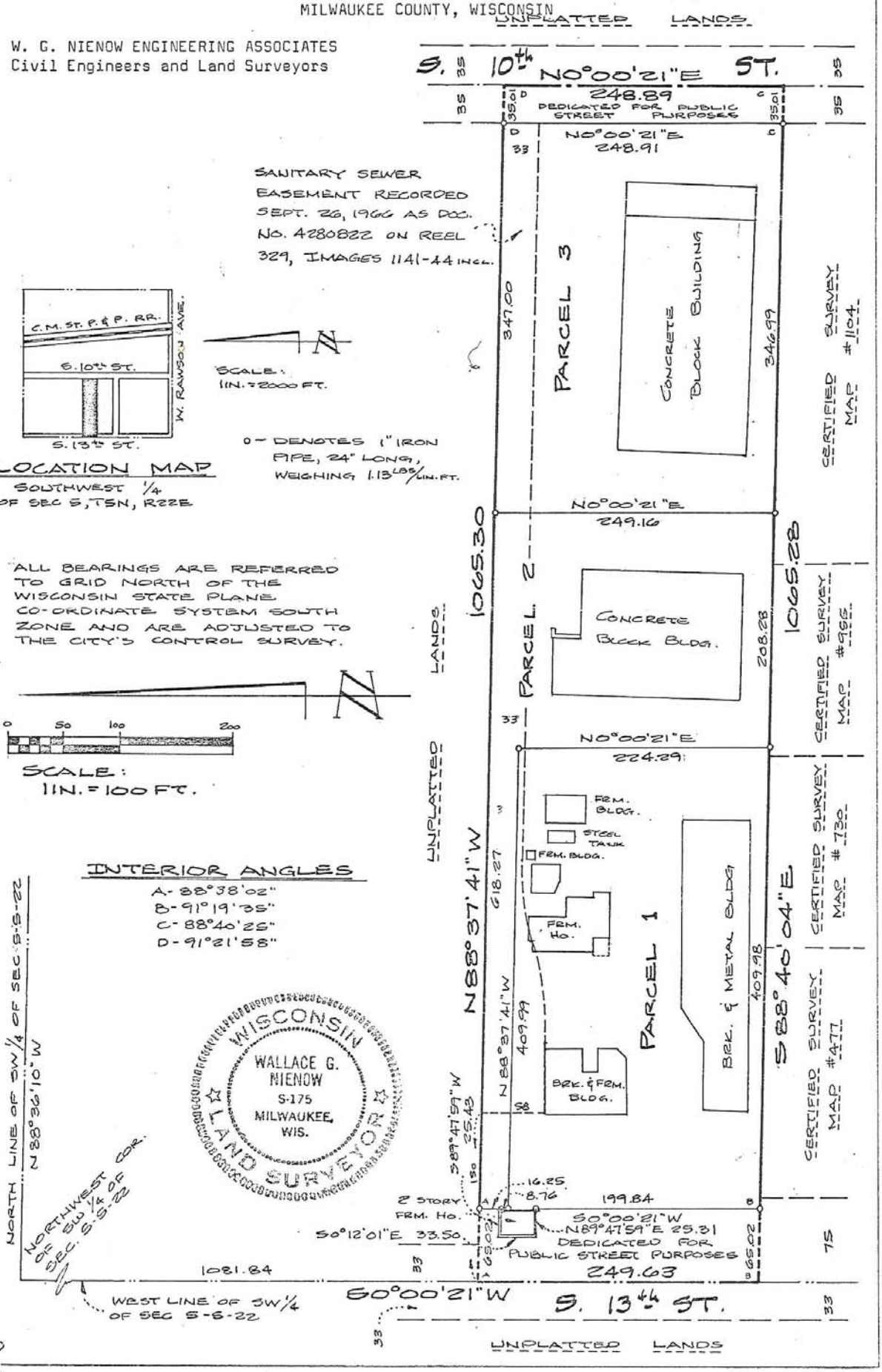
being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

W. G. NIENOW ENGINEERING ASSOCIATES
Civil Engineers and Land Surveyors



OFF-SOURCE
B
PROPERTY

CERTIFIED SURVEY MAP NO. _____

being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN (
MILWAUKEE COUNTY (SS

I, WALLACE G. NIENOW, land surveyor, do hereby certify:

THAT I have surveyed and mapped a part of the Southwest 1/4 of Section 5, Township 5 North, Range 22 East, in the City of Oak Creek, Milwaukee County, Wisconsin, bounded and described as follows:

Commencing at a point in the West line of said 1/4 Section 1081.84 feet, S 0° 00' 21" W of the Northwest corner thereof; continuing thence S 0° 00' 21" W along the West line of said 1/4 Section, 249.63 feet to a point in the South line of the North 1/2 of said 1/4 Section; thence S 88° 40' 04" E along the South line of the North 1/2 of said 1/4 Section, 1065.28 feet to a point in the centerline of S. Tenth Street; thence N 0° 00' 21" E along the centerline of S. Tenth Street and parallel to the West line of said 1/4 Section, 248.89 feet to a point; thence N 88° 37' 41" W, 1065.30 feet to the point of commencement.

THAT I have made this survey, land division and map by the direction of E. M. CONSTRUCTION, INC., owner of said land.

THAT such map is a correct representation of all the exterior boundaries of the land surveyed and the land division thereof made.

THAT I have fully complied with the provisions of Chapter 236 of the Wisconsin Statutes and Chapter 18 of the City of Oak Creek Municipal Code in surveying, dividing and mapping the same.

Date: OCTOBER 5, 1973
REV.: 6 MARCH 1974

Wallace G. Nienow
Wallace G. Nienow, Land Surveyor

CORPORATE OWNER'S CERTIFICATE

E. M. CONSTRUCTION, INC., a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner, does hereby certify that said corporation caused the lands described above to be surveyed, divided and mapped as represented on this map in accordance with the requirements of Ordinance No. 82 of the City of Oak Creek.

In Witness Whereof, the said E. M. CONSTRUCTION, INC., has caused these presents to be signed by EMIL MEUCCI, President, and countersigned by EMMA MEUCCI, Secretary, and its corporate seal to be hereunto affixed on this 11th day of OCTOBER, 1973.

IN THE PRESENCE OF:

Jo Ann Van Guilder
Jo Ann Van Guilder

Richard M. Scholl
Richard M. Scholl

Emil Meucci SEAL
Emil Meucci, President

Emma Meucci SEAL
Emma Meucci, Secretary

Vincent Yaeger Seal
Vincent yaeger

Lawrence Yaeger Seal
(Lawrence Yaeger)

STATE OF WISCONSIN (
COUNTY OF MILWAUKEE (SS

Personally came before me this 11th day of OCTOBER, 1973, EMIL MEUCCI, President and EMMA MEUCCI, Secretary of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

My Commission expires July 18, 1976

R. M. Scholl
R. M. SCHOLL
Public Notary, Milwaukee County, Wisconsin

OFF-SOURCE
B
PROPERTY

REEL 781 IMAGE 1239

CERTIFIED SURVEY MAP NO. _____

being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

CONSENT OF CORPORATE MORTGAGEE

OAK CREEK MARINE NATIONAL BANK, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, mortgagee of the foregoing described land, does hereby consent to the surveying, dividing, mapping and dedication of the land described on this map, and does hereby consent to the above certificate of E. M. CONSTRUCTION, INC., owner.

In Witness Whereof, the said OAK CREEK MARINE NATIONAL BANK has caused these presents to be signed by RICHARD M. SCHOLL, President, and countersigned by JON A. MURDOCH, Cashier, at Milwaukee, Wisconsin, and its corporate seal to be hereunto affixed this 11th day of OCTOBER, 1973.

IN THE PRESENCE OF:

Jo Ann Van Guilder

Jo Ann Van Guilder

Joseph A. Domanik

Joseph A. Domanik

OAK CREEK MARINE NATIONAL BANK

Richard M. Scholl SEAL

Richard M. Scholl, President

Countersigned:

Jon A. Murdoch SEAL

Jon A. Murdoch, Cashier

STATE OF WISCONSIN (
COUNTY OF MILWAUKEE (SS

Personally came before me this 12th day of October, 1973, the above named RICHARD M. SCHOLL, President and JON A. MURDOCH, Cashier 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 Cashier of said Corporation, and acknowledged that they executed the foregoing instrument as such officers as the deed of said Corporation, by its authority.

My Commission expires 10-26-75

Judith A. Otto

Judith A. Otto

Notary Public, Milwaukee County, Wisconsin

PLANNING COMMISSION APPROVAL

Approved by the Planning Commission of the City of Oak Creek on this 20th day of March, 1974.

Elroy C. Honadel

Chairman

Fredrick D. Fairbanks

Secretary

COMMON COUNCIL APPROVAL

Approved by the Common Council of the City of Oak Creek on this 9th day of April, 1974, by resolution no. 3098-040474.

Elroy C. Honadel

Mayor

LaVerne C. Gutknecht

City Clerk

4835660

REGISTER'S OFFICE
Milwaukee County, Wis. } SS
RECORDED AT 2 M
on APR 25 1974 in
Reel 781 Image 1237 to 1240 incl.

Walter R. Bergh

REGISTER OF DEEDS

OFF-SOURCE
B
PROPERTY

REEL 701 IMAG 1240

CERTIFIED SURVEY MAP NO. _____

being a part of the

SOUTHWEST 1/4 OF SECTION 5, TOWNSHIP 5 NORTH, RANGE 22 EAST

CITY OF OAK CREEK

MILWAUKEE COUNTY, WISCONSIN

COMMON COUNCIL ACCEPTANCE OF DEDICATION

Dedication of land as indicated above accepted by the Common Council of the City of Oak Creek, per Plan Commission recommendation, on this 4th day of April, 1974, by resolution No. 3099-040474.

Elroy C. Henadel
Mayor

LaVerne C. Gutknecht
City Clerk

This instrument was drafted by: Wallace G. Nienow

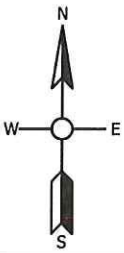
OFF-SOURCE
B
PROPERTY

STATE OF WISCONSIN
MILWAUKEE COUNTY
I, the undersigned Register of Deeds of Milwaukee County, hereby certify that this document is a true and correct copy of the original on file or record in my office. Witness my hand and official seal this

SEP 13 2011
date

John La Fave
JOHN LA FAVE
Register of Deeds

OFF-SOURCE
B
PROPERTY



REVISIONS			
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:
Rev.		By:	Date:

Source: Google Maps
Quadrangle: Greendale, WI
Dated: 2011

EHS Support
consider it done
www.ehs-support.com

6870 S. 13th Street
OAK CREEK, WI

FIGURE 1B
SURROUNDING AREA MAP

Drawn By: MDO	Date Drawn: 05/24/2011
Reviewed By: KA	Date Reviewed: 05/2011
Scale: - NTS -	Plot Date: 05/2011
Project Name: Ashland Performance Materials Facility	