

# WETLAND DELINEATION REPORT

## Liberty Business Park

### Town of Verona, Dane County, Wisconsin

NRC Project No. 009-0265-01  
December 2009

**PREPARED FOR:**

Ruedebsch Development  
4605 Dovetail Drive  
Madison, WI 53704

**PREPARED BY:**

Natural Resources Consulting, Inc.  
PO Box 128 □ 209 Commerce Parkway  
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# **WETLAND DELINEATION REPORT**

## **LIBERTY BUSINESS PARK TOWN OF VERONA, DANE COUNTY, WISCONSIN**

**DECEMBER 2, 2009**

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**NRC Project #: 009-0265-01**



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## INTRODUCTION

Natural Resources Consulting, Inc. (NRC) performed a wetland determination and delineation of the Liberty Business Park study area (the “Study Area”) on behalf of Ruedebusch Development and Construction. The Study Area is approximately 138 acres in size and located in Sections 23 and 24, Township 6 North, Range 8 East, Town of Verona, Dane County, Wisconsin. Specifically, the Study Area is located between Whalen Road and CTH M, with CTH PB and USH 18 to the west (Figure 1). One portion of the study area is located at the northeast corner of the intersection of Whalen Road and USH 18.

The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area. The wetland delineation was completed by Jeff Kraemer of NRC on November 3 and 6, 2009. Three wetland areas were identified in the Study Area.

The remainder of the property, including the farm fields, woodland, and shrubland immediately adjacent to CTH PB and USH 18, was delineated by Neil Molstad of NRC on May 1 and 21, 2007 (please see figures provided in Appendix 3). No wetlands were identified on that portion of the Study Area. The wetland determination letter and concurrence from the United States Army Corps of Engineers (USACE) for that previous delineation work is found in Appendix 3. Additionally, the Wisconsin Department of Natural Resources (WDNR) completed a navigability determination of a waterway mapped on the USGS topoquads; this determination is also found in Appendix 3.

Wetlands that are considered waters of the U.S. are subject to regulation under Section 404 of the Clean Water Act (CWA) and the jurisdictional regulatory authority lies with the USACE. Additionally, the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and Wisconsin Administrative Code NR 103. NRC recommends this report be submitted to the WDNR and USACE for final jurisdictional review and concurrence.



## METHODS

Wetland determinations were based on the criteria and methods outlined in the *United States Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1 (1987) and subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), and the *Basic Guide to Wisconsin's Wetlands and their Boundaries* (Wisconsin Department of Administration Coastal Management Program 1995).

The wetland determination involved the use of available resources to assist in the assessment such as USGS topographic maps, Natural Resources Conservation Service (NRCS) soil survey, Wisconsin Wetland Inventory (WWI) mapping and aerial photography.

On-site wetland determinations were made using the three criteria (vegetation, soil and hydrology) and technical approach defined in the USACE 1987 Manual. According to procedures described in the 1987 Manual, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands.

The uppermost wetland boundary was identified with consecutively numbered delineation flagging. The wetland boundary was surveyed and is identified on a site survey map (Figure 5). Subject to weathering, the flagging will remain in the field for use during a USACE / WDNR site review and as a guide during construction.

## RESULTS

### Site Description

The Study Area is comprised of active agricultural fields, a few small wetlands, and an oak/hickory upland forest. The Study Area also includes a commercial/farming operation. The agricultural fields were under soybean production in 2009. The Study Area is landscaped with well defined glacial kettle and moraine features and is gently rolling, with topographic highs of approximately 1080 feet msl in the southeastern corner of the Study Area to topographic lows of 1020 in the center of the Study Area. The Study Area is bordered by residential development to the southeast; agricultural lands to the north and east; and CTH PB/USH 18 to the west. The lands south of the Study Area are under development.

Soils mapped on the Study Area by the *NRCS Soil Survey of Jefferson County* include Dodge silt loams (DnB, DnC2), Dodge and Kidder soils (DoC2), Kidder soils (KdD2), McHenry silt loams (MdC2), St. Charles silt loams (ScA, ScB), and Troxel silt loams (TrB) (Figure 2). According to the NRCS List of Hydric Soils for Dane County, the Troxel series may contain hydric inclusions.

The Wisconsin Wetland Inventory (WWI) map does not identify any wetlands within the Study Area nor on adjacent properties. The WWI shows two waterbodies which correspond with the field-delineated Wetlands 1 and 2 (Figure 3). The field delineated northern wetland (W-3) is not identified on the WWI map (Figure 4).

### Wetlands

Three wetlands were identified and delineated within the Study Area. USACE data sheets were completed for 17 sample points along transects through the wetlands and adjacent uplands and are contained in Appendix A. Photographs of the wetlands and adjacent lands are contained in Appendix B. The wetland boundary and sample point locations are shown on Figure 4. The wetlands are summarized in Table 1 and described in detail in the following sections.

**Table 1. Summary of Wetlands Identified within the Study Area.**

Wetland	Wetland Type	Adjacent Surface Waters	Acreage (on-site)
Wetland 1 (W-1a and W1b)	Ephemeral wetland in forested setting / T3K	No inlets or outlets observed	0.092 acres (W-1a) 0.069 acres (W-1b)  (Note: total wetland acreage, on- and off-site, is 0.718 acres)
Wetland 2 (W-2)	Open water pond / W3H	No inlets or outlets observed	0.136 acres
Wetland 3 (W-3)	Farmed Wetland / E2Kf	No inlets or outlets observed	1.092 acres

### **Wetland 1(W-1a and W-1b)**

Wetland 1 is an ephemeral wetland in the southeastern corner of the Study Area. The wetland on-site is divided into two sections, Wetland 1a and 1b, represented by sample points P-03 and P-04. The wetland continues off-site to the east and has an approximate total size of <2 acres. Wetland 1 does not appear to be connected to any tributaries or waterways (Figure 1).

#### *Vegetation*

Dominant plant species identified at sample points completed within the ephemeral wetland consist of American elm (*Ulmus americana*) and box-elder (*Acer negundo*) in the canopy, elderberry (*Sambucus canadensis*) in the shrub layer, and white avens (*Geum canadense*) in the herbaceous layer. The herbaceous and shrub layers were very sparse due to seasonal ponding. Other common species identified in the wetland are listed on the data forms contained in Appendix A. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

#### *Hydrology*

The wetland appears to have a seasonally inundated/saturated hydroperiod. Drainage patterns within the wetland were the primary indicators of wetland hydrology, while secondary indicators included water stained leaves, oxidized rhizospheres, and a positive FAC-neutral test. The wetland hydrology criterion was met.

#### *Soils*

Soils within the wetland are mapped by the NRCS as Dodge and Kidder soils (Figure 2). The Dodge series consists of very deep well-drained soils formed in loess and in the underlying till on ground moraines, end moraines, and drumlins. The Kidder series consists of very deep, well drained soils formed in thin loess and in loamy till or just in loamy till on moraines and drumlins. Field indicators of hydric soil identified consisted of low chroma colors with redoximorphic features. Therefore, the hydric soil criterion was satisfied.

#### *Wetland Boundary*

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from a dearth of herbaceous and shrub vegetation due to seasonal flooding to a mesic woodland upland community dominated by red oak (*Quercus rubra*), chokecherry (*Prunus virginiana*) and containing a richer shrub community; and 2) Transition from drainage patterns and other evidence of ponding within the wetland to lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils with hydric indicators to brighter non-hydric soils in the uplands. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

### **Wetland 2 (W-2)**

Wetland 2 is an open water pond formed within a natural kettle although may have been historically dredged. Wetland 2 is found within the woodland in the southeastern corner of the Study Area. Wetland

2 does not appear to be connected to any tributaries or waterways (Figure 1).

#### *Vegetation*

There was no vegetation present in Wetland 2 due to flooded conditions. There was no aquatic vegetation within the pond, nor any fringe of wetland species along the margin.

#### *Hydrology*

The wetland appears to have a permanently inundated/saturated hydroperiod. At the sample point, the soils were saturated to the surface, and there was free water in the pit at four inches, a primary indicator of wetland hydrology. The pond contained an estimated three feet of water at its deepest point. The wetland hydrology criterion was met.

#### *Soils*

Soils within the wetland are mapped by the NRCS as Kidder loam (Figure 2). The Kidder series consists of very deep, well drained soils formed in thin loess and in loamy till or just in loamy till on moraines and drumlins. The soils observed in the field did not match the mapped series. Field indicators of hydric soil identified consisted of low chroma colors with redoximorphic features. Therefore, the hydric soil criterion was satisfied.

#### *Wetland Boundary*

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from an open water community to a mesic woodland upland community dominated by red oak (*Quercus rubra*), common buckhorn (*Rhamnus cathartica*), and white avens (*Geum canadense*), and 2) Transition from saturated and inundated soils to lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from hydric soils to brighter non-hydric soils in the uplands. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

### **Wetland 3 (W-3)**

Wetland 3 is a farmed wetland along the northern boundary of the Study Area. It does not appear to be connected to any tributaries or waterways (Figure 1). The farmed wetland was not farmed in 2009. A cursory review of Farm Service Agency aerial photos from recent years shows that this area has consistent wetland signatures that are consistent with the extent of the wetland identified.

#### *Vegetation*

The wetland was comprised of a near monoculture of knee-grass (*Panicum dichotomiflorum*, FACW-). Less common species included pink weed (*Polygonum pensylvanicum*). The vegetation is dominated by hydrophytic vegetation, and therefore the wetland meets the hydrophytic vegetation criterion.

#### *Hydrology*

The wetland appears to have a seasonally inundated/saturated hydroperiod. A primary indicator of

wetland hydrology included saturated soils near the surface. A positive FAC-neutral test and consistent wetland signatures on previous years' aerial photos provide two secondary indicators of wetland hydrology. Other parts of the wetland (beyond the sample point) show evidence of recent ponding. The wetland hydrology criterion was met.

### *Soils*

Soils within the wetland are mapped by the NRCS as Troxel silt loam and St. Charles silt loam (Figure 2). The Troxel series consists of very deep, well drained soils formed in silty colluvium and in the underlying loamy drift. They are in slight depressions on outwash plains, stream terraces, and till plains. The St. Charles series consists of very deep, well drained soils on outwash plains, till plains, or stream terraces. Field indicators of hydric soil identified consisted of low chroma colors with redoximorphic features. Therefore, the hydric soil criterion was satisfied.

### *Wetland Boundary*

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from a wet meadow dominated by knee-grass to an agricultural field with no apparent crop damage; 2) Transition from an area with a positive FAC-neutral test and consistent wetland signatures on aerial photos to a lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils with hydric indicators to brighter non-hydric soils in the uplands. The transition from wetland to upland characteristics generally correlated with a gentle topographic break.

## **Uplands**

Uplands on the Study Area consist of mostly agricultural lands and a small area of mesic woods. The wooded area is located in the southeastern corner of the Study Area. This area (sample points P-01, P-02, P-05, P-06, and P-08) is a well defined kettle/drumlin complex containing Wetlands 1 and 2. The woodland also extends as a substantial field row across the Study Area. The woodland is dominated by red oak, shrubs such as chokecherry and blackberry (*Rubus occidentalis*), and white avens (*Geum canadense*). Soils in this area are mapped by NRCS as Kidder loam and Dodge silt loam, both well drained soils. Field observations confirmed that the soils were well drained.

The agricultural fields were under soybean and corn production during the growing season. Most of the soils in these areas are mapped as St. Charles silt loam, Dodge silt loam, McHenry silt loam, and Troxel silt loam soils, all well drained map units, except for Troxel, which is moderately well drained. Field observations confirmed that these soils are well drained. The agricultural fields (apart from Wetland 3) support successful crop growth.

## **Other Environmental Considerations**

This report is limited to the identification of state and/or federally regulated wetlands within the Study Area. However, there may be other regulated environmental features within the Study Area, including but not limited to, historical or archeological features, endangered or threatened species, and/or floodplains, etc. Federal, state, and local units of government and regional planning organizations may have regulatory authority to control or restrict land uses within or in close proximity to these features.



NRC can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

Specifically, in the state of Wisconsin, Wis. Adm. Code NR 151.12 requires that a “protective area” or buffer be determined from the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands. In accordance with NR 151.12, the width of the “protective buffer” for less susceptible wetlands are determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. Lakes, perennial and intermittent streams, and highly susceptible wetlands and wetlands in areas of special natural resource interest may require buffers of 50 and 75 feet, respectively. Wetlands 1 and 2 lack invasive plant species, and would be considered highly susceptible wetlands. Wetland 1 and 2 would require buffers of 50 feet. Wetland 3 is dominated by weedy species and is frequently disturbed by farming activities. Therefore, based on the “protective buffer” standards provided by NR 151.12, it is NRC’s professional opinion that Wetland 3 meets the criteria for less susceptible wetlands and the buffer from the wetland boundary would be 27.5 feet. However, the jurisdictional authority on wetland buffers rests with the WDNR. The local unit of government and/or regional planning organization may have more restrictive buffers from wetlands than that imposed under NR 151.

A navigability determination was completed by the WDNR on the mapped waterway that traverses through the northwest portion of the property in 2007. Following a field visit by Cami Peterson (WDNR), the drainageway was determined to be non-navigable per state of Wisconsin definition (Appendix 3 – WDNR Determination Letter). Note that the watercourse is not defined in the agricultural field, and only becomes defined at the woodland, though it remains non-navigable. NRC recommends that the Client coordinates with Dane County and/or Verona to be sure that the surrounding 300 feet is not designated as shoreland zone. If it is, you can request that it is removed (this is an administrative process not a rezoning process) since the waterway is not navigable.

Dane County requires setbacks from shoreland and inland wetlands greater than two acres. The wetlands identified with the Study Area are inland wetlands; however they are less than 2 acres in size (including off-site portions). Therefore, it is our understanding that Dane County wetland setbacks do not apply.

## CONCLUSION

NRC performed a wetland determination and delineation of the Liberty Business Park Study Area on behalf of Ruedebsch Development and Construction. The Study Area is located in Sections 23 and 24, Township 6 North, Range 8 East, Town of Verona, Dane County, Wisconsin. The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area.

Three wetlands were identified and delineated on the Study Area in accordance with state and federal guidelines. These three wetlands are ephemeral, open water, and farmed wetland communities. Adjacent uplands are composed of agricultural lands and mesic woods. A combined total of approximately 1.389 acres of wetlands were identified with the 138 acre Study Area. Wetlands and their boundaries were flagged, surveyed and mapped.

The USACE has regulatory authority over waters of the U.S. including adjacent wetlands, and the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and NR 103 Wisconsin Administrative Code. Local jurisdictions may have additional regulatory authority through shoreland or wetland zoning ordinances.

Prior to beginning work at this site or disturbing or altering wetlands, waterways, or adjacent lands in any way, NRC recommends that the owner obtain the necessary permits or other agency regulatory review and concurrence with regard to the proposed work to comply with applicable regulations. NRC can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

The information provided by NRC regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present on the site at the time of the fieldwork. The delineation was performed by an assured wetland delineator, Jeff Kraemer, who has been assured through the *Wisconsin Department of Natural Resources – Wetland Delineation Professional Assurance Program* (Appendix D – Delineation Assurance Letter). Therefore, concurrence from the WDNR is not required for purpose of waterway and wetland permit applications and/or other state-mandated local wetland programs. However, assurance does not change the need for or decisions about wetland fill permits from the appropriate regulatory agencies. Wetland delineations conducted by an assured delineator does not eliminate the need to obtain concurrence and jurisdiction determinations from the USACE. The ultimate decision on wetland boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site.

## REFERENCES

Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

SW Software, Formation - Wetland Edition, 2006.

U.S. Army Corps of Engineers (USACE) "*Clarification of the Phrase "Normal Circumstances" as it pertains to Cropped Wetlands*," Regulatory Guidance Letter (RGL) 90-7 dated 26 September 1990.

USACE "*Implementation of the 1987 Corps Wetland Delineation Manual*," memorandum from John P. Elmore dated 27 August 1991.

USACE "*Questions & Answers on the 1987 Manual*," memorandum from John F. Studt dated 7 October 1991.

USACE "*Clarification and Interpretation of the 1987 Manual*," memorandum from Major General Arthur E. Williams dated 6 March 1992.

USACE "*Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers*", Public Notice from Ben Wopat dated 22 May 1996.

USACE "*NRCS Field Indicators of Hydric Soils*," memorandum from John F. Studt dated 21 March 1997.

United States Department of Agriculture (USDA), Natural Resource Conservation Service (NRCS), *Dane County Hydric Soil List*.

USDA, NRCS. 2006. *Field Indicators of Hydric Soils in the United States*, Version 6.0. G.W. Hurt, P.M. Whited, and R.F. Pringle (eds.). USDA, NRCS in cooperation with the National Technical Committee for Hydric Soils, Fort Worth, TX.

USDA, Soil Conservation Service, *Dane County Soil Survey*.

United States Geological Survey, *Wisconsin 7.5 Minute Series (Topographic) Maps*

Wetland Training Institute, Inc. 1995. *Field Guide for Wetland Delineation; 1987 Corps of Engineers Manual*, Glenwood, NM.

Wisconsin Department of Administration and Wisconsin Coastal Management Program. 1995. *Basic Guide to Wisconsin's Wetlands and Their Boundaries*.

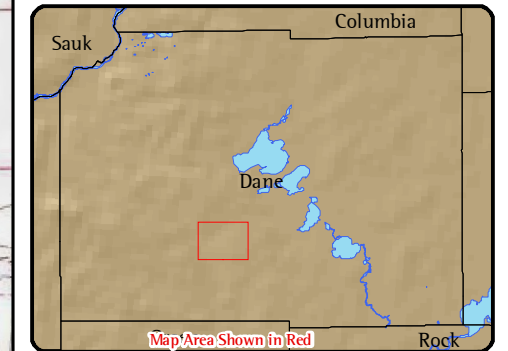
Wisconsin Department of Natural Resources, *Wisconsin Wetlands Inventory*.

Wisconsin State Herbarium, *Checklist of the Vascular Plants of Wisconsin*, Presented by the University of Wisconsin – Madison, 2005.

## **FIGURES**



Figure 1.  
Project Location  
and Topography  
Liberty Business Park



**Location**  
T6N, R8E, S23 and S24;  
Town of Verona, Dane Co., WI

0 1,000 2,000 Feet

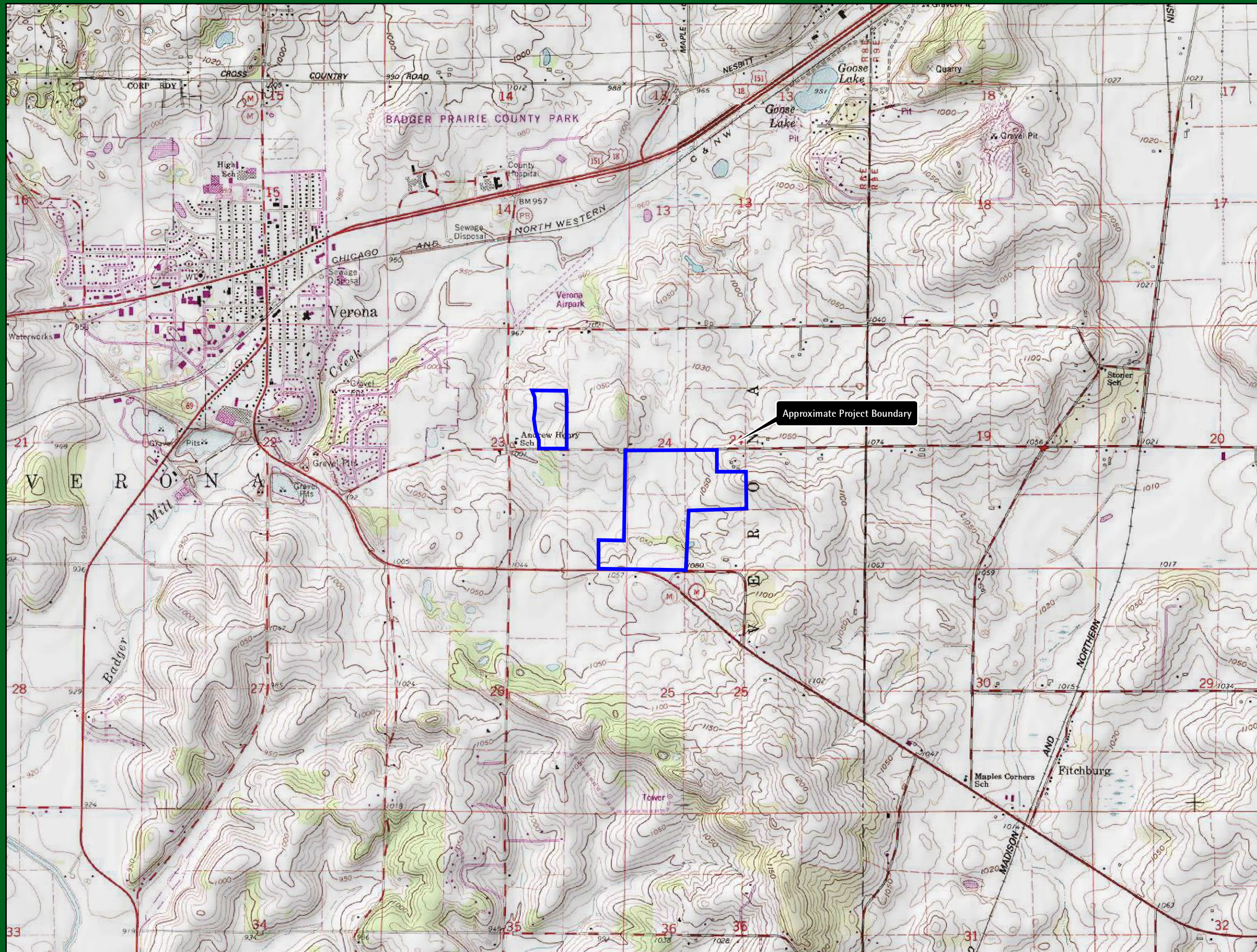
**Project Information**  
Project Number : 009-0265-01  
Modified November 16, 2009

**Legend**  
Approximate Study Area

Data Sources include USGS 7.5' Topographic Quadrangles.



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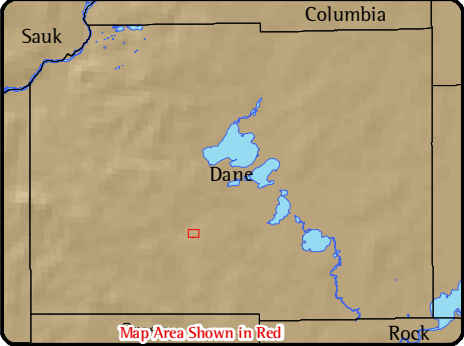


The information presented in this map document is advisory and is intended for reference purposes only.



Figure 2.  
NRCS Soils  
Survey Data

Liberty Business Park



Location

T6N, R8E, S23 and S24;  
Town of Verona, Dane Co., WI

0 200 400 Feet

Project Information

Project Number : 009-0265-01  
Modified November 16, 2009

Legend

- Approximate Study Area
- County Boundary
- Township Line
- Section Line

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- Waterbody

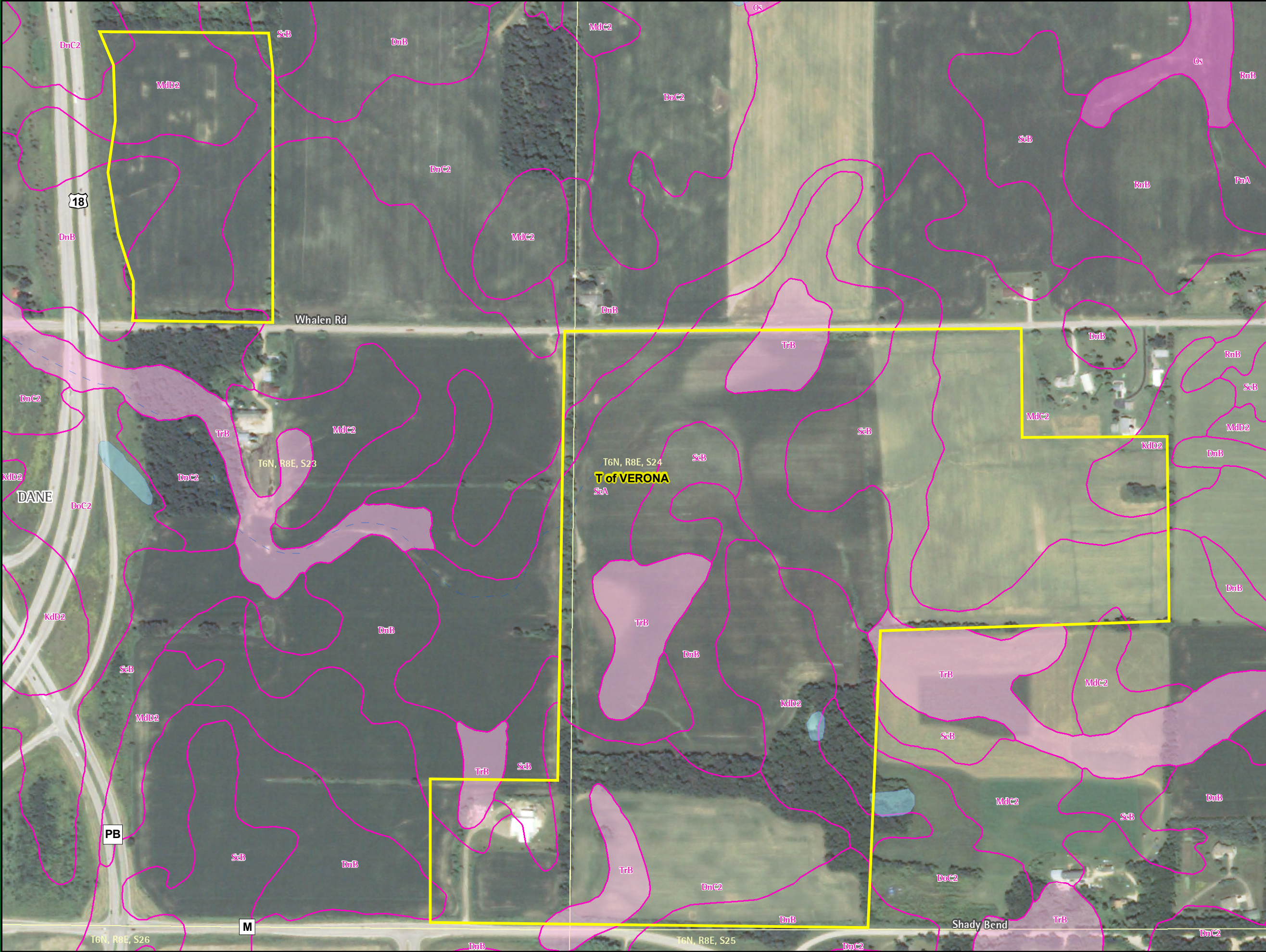
NRCS Soils Survey

- Hydric Soils
- Possible Hydric Inclusions
- Non-Hydric Soils

Data Sources include WDNr, WDOA, WDOT, NRCS, 2008 NAIP Orthophotography.



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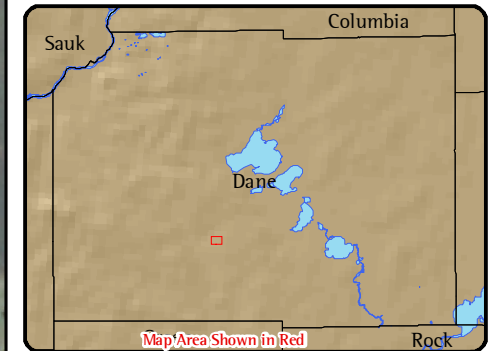


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# Figure 3. Wisconsin Wetlands Inventory

## Liberty Business Park



### Location

T6N, R8E, S23 and S24;  
Town of Verona, Dane Co., WI

0 200 400 Feet

### Project Information

Project Number : 009-0265-01  
Modified November 16, 2009

### Legend

- Approximate Study Area
- County Boundary
- Township Line
- Section Line
- Wisconsin Wetlands Inventory\*

### DNR 24k Hydrography

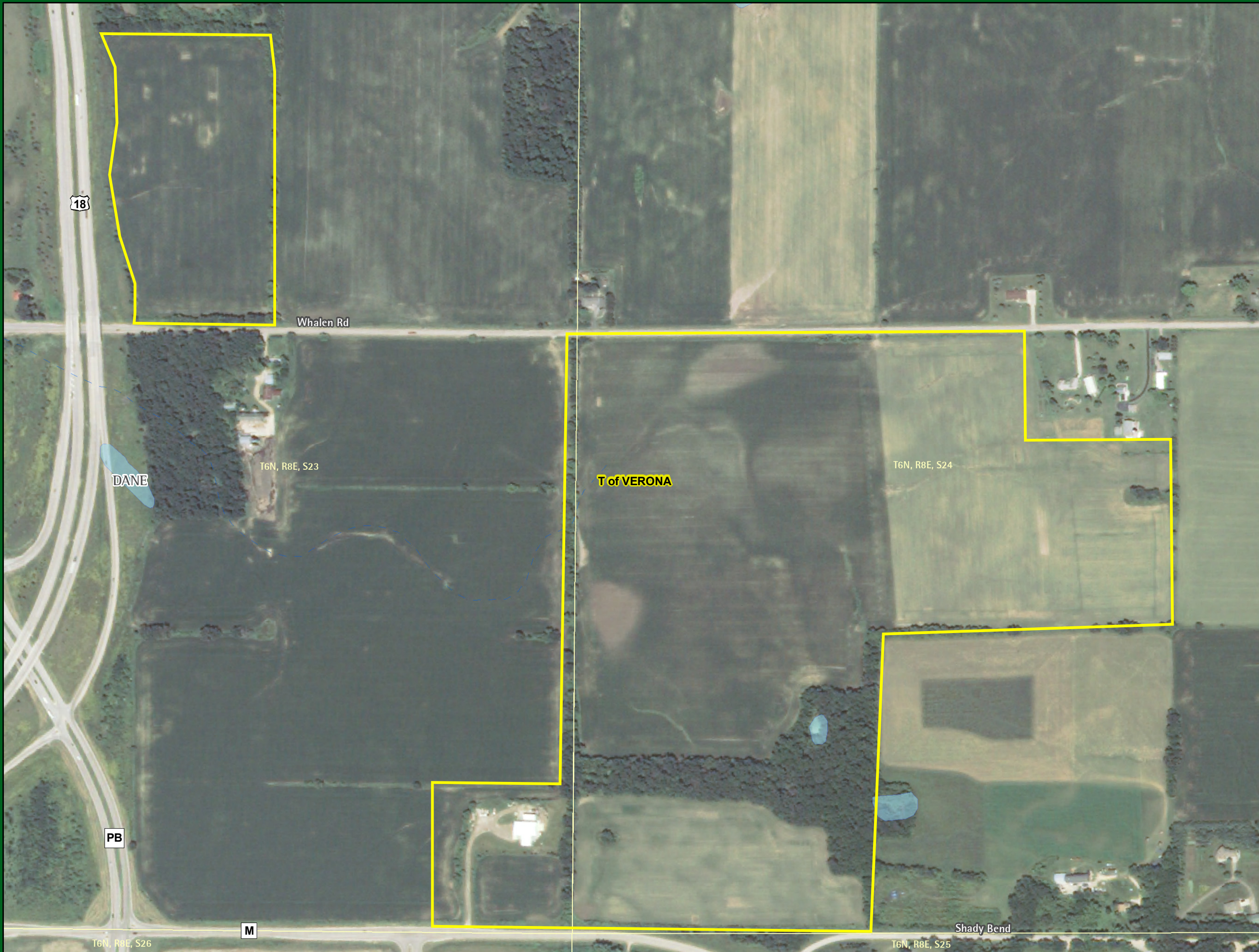
- Perennial Stream
- Intermittent Stream
- Waterbody

\*No WI Wetlands Inventory wetlands in map extent.

Data Sources include WDNr, WDOA, WDOT, 2008 NAIP Orthophotography.



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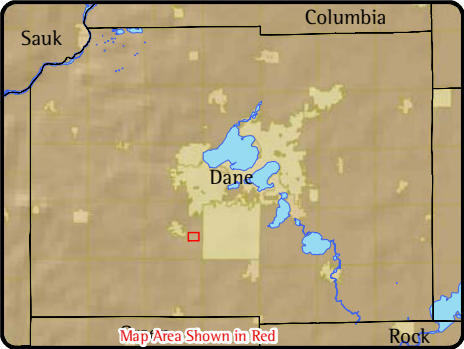


The information presented in this map document is advisory and is intended for reference purposes only.



Figure 4.  
Field Delineated  
Wetland Data

Liberty Business Park



Location

T6N, R8E, S23 and S24;  
Town of Verona, Dane Co., WI

0 200 400 Feet

Project Information

Project Number : 009-0265-01  
Modified November 20, 2009

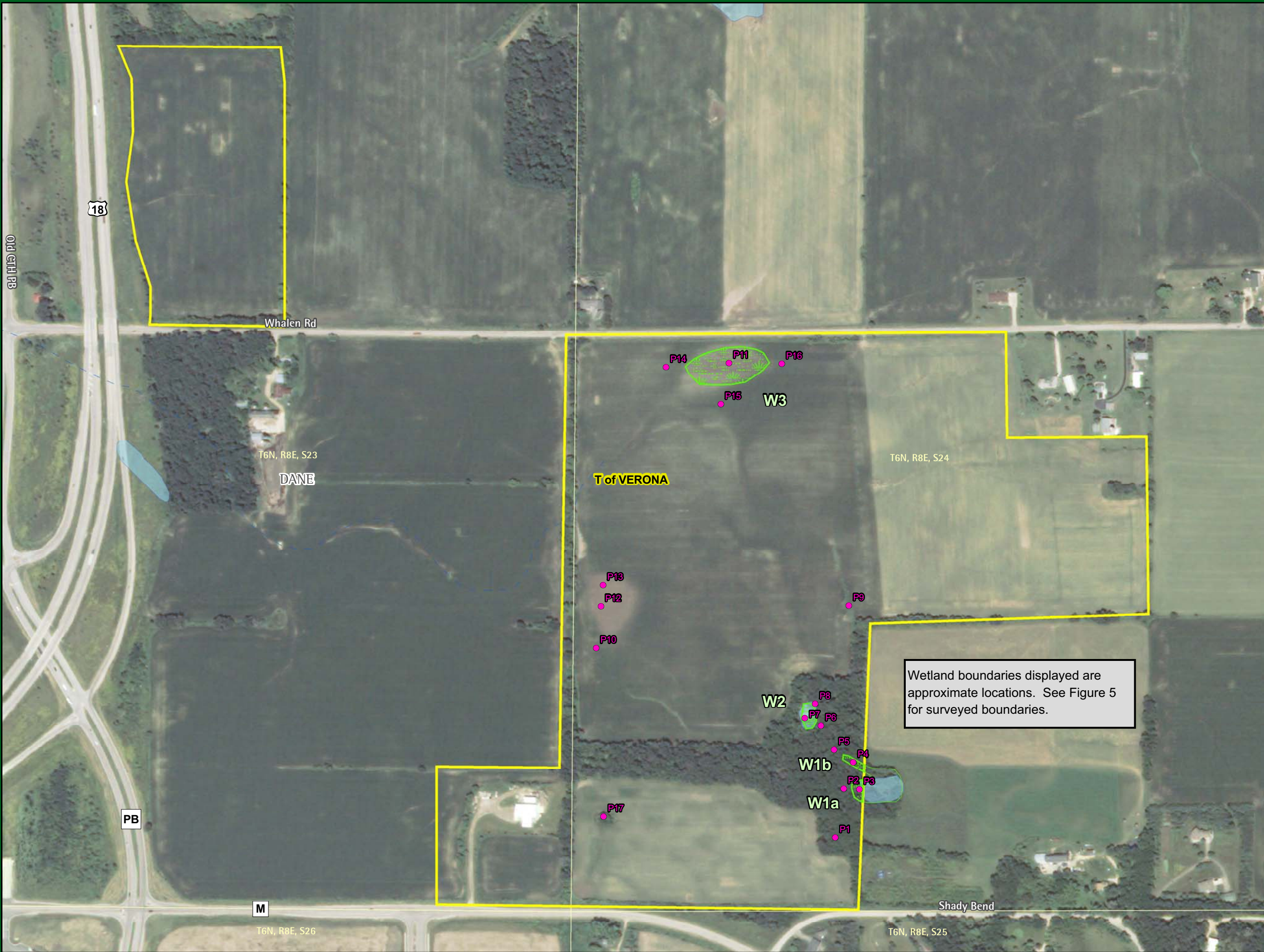
Legend

- Approximate Study Area
- Field Delineated Wetland
- Off-Site Wetland
- Sample Points
- County Boundary
- Township Line
- Section Line
- DNR 24k Hydrography
  - Perennial Stream
  - Intermittent Stream
  - Waterbody

Data Sources include WDNR, WDOA, WDOT, 2008 NAIP Orthophotography.



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NE 1/4 - SW 1/4

SE 1/4 - SW 1/4

NW 1/4 - SW 1/4

SW 1/4

SW 1/4

NW 1/4 - SE 1/4

SECTION 23

SW 1/4 - SE 1/4

SECTION 23

**LEGEND**

- △ = GAS VALVE
- ▣ = UTILITY PEDESTAL/VAULT
- = POWER POLE
- = LIGHT POLE
- = SET 3/4" REBAR
- = FOUND 3/4" REBAR
- = FOUND 1" IRON PIPE
- = FOUND MONUMENT
- T—T—T— = UNDERGROUND TELEPHONE LINE
- E—E—E— = UNDERGROUND ELECTRIC LINE
- G—G—G— = UNDERGROUND GAS LINE
- FO—FO—FO— = UNDERGROUND FIBER OPTIC LINE
- OHU—OHU— = OVERHEAD UTILITIES
- X—X—X—X— = FENCE LINE

**NOTES:**

- 1.) BEARINGS ARE BASED ON THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY.
- 2.) ELEVATIONS ARE BASE ON NGVD(29).
- 3.) THIS PARCEL IS SUBJECT TO ANY AND ALL EASEMENTS AND AGREEMENTS RECORDED AND UNRECORDED.
- 4.) UTILITIES SHOWN FROM MARKINGS IN THE FIELD. SURVEYOR NOT RESPONSIBLE FOR INCORRECT OR INCOMPLETE MARKINGS. CALL DIGGERS HOTLINE FOR EXACT LOCATION OF UNDERGROUND UTILITIES. 1-800-242-8511
- 5.) WETLANDS DELINEATED BY N.R.C. IN NOVEMBER 2009. THE SURVEYOR CAN ONLY CERTIFY TO THE LOCATION OF MARKINGS PLACED IN THE FIELD BY OTHERS.
- 6.) AREA INCL. R/W = 78.50 ACRES OR 3,419,511 SQ.FT.  
AREA EXCL. R/W = 76.30 ACRES OR 3,323,573 SQ.FT.
- 7.) BENCHMARKS ARE SHOWN ON MAP AT THE W 1/4 CORNER AND SW CORNER OF SECTION 24, ( MONUMENT)

**PREPARED FOR:**

RUDEBUSCH DEVELOPMENT AND CONSTRUCTION  
4805 DOWETAL DRIVE  
MADISON, W. 53704

SURVEYORS SEAL

Figure 5.  
Field Delineated  
Wetland Survey Map

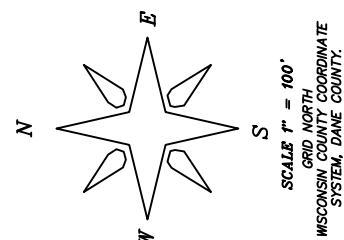


**WILLIAMSON SURVEYING & ASSOCIATES, LLC**  
104 A WEST MAIN STREET, WAUNAKEE, WISCONSIN, 53597.  
NOA T. PRIEVE & CHRIS W. ADAMS  
REGISTERED LAND SURVEYORS  
PHONE: 608-255-5705 FAX: 608-849-9280 E-MAIL: WILLSURV@TDS.NET

**TOPOGRAPHIC SURVEY**

S.W. 1/4 and N.W. 1/4 of the S.W. 1/4 of Section 24,  
T2N, R2E, City of Verona, Dane County, Wisconsin.

DATE	NOVEMBER 25, 2009	REVISION DATE:	CHECK BY	C.W.A.
SCALE	1" = 100'		DRAWING NO.	09W-218
DRAWN BY	NOA PRIEVE		SHEET	1 OF 1



**APPENDIX A**  
**US ARMY CORPS OF ENGINEERS DATA SHEETS**





## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-01**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-01**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b>Herbaceous</b>				
X	<i>Geum canadense</i>	white avens / 2	5	FAC
<b>Shrub</b>				
	<i>LONICERA X BELLA</i>	Bell's honeysuckle	10	[FACU]
	<i>Sambucus canadensis</i>	elderberry / 3	2	FACW-
X	<i>Rubus occidentalis</i>	black raspberry / 2	80	[UPL]
<b>Tree</b>				
	<i>Prunus serotina</i>	wild black cherry / 3	10	FACU
	<i>Carya ovata</i>	shagbark hickory / 5	5	FACU
X	<i>Quercus rubra</i>	northern red oak / 5	60	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **33**

NOTE: Species in capital letters denote non-native species.

### Remarks

This sample point is not dominated by hydrophytic species.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;18</b>		
Depth to Saturated Soils(in.): <b>&gt;18</b>		

### Remarks

There were no wetland hydrology indicators observed at this point.

### Soils

Unit Name: **Dodge silt loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **well**

☐ Field Observations match map

Depth (in.)	Hor. Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-14	10YR 2/2				Silt Loam
14-18	10YR 5/4	10YR 4/4	few	faint	Silt Loam

#### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This depression is a glacial kettle. However, it is not a wetland.



## Data Form Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-02**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-02**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b><u>Herbaceous</u></b>				
X	<i>Geum canadense</i>	white avens / 2	2	FAC
<b><u>Shrub</u></b>				
	<i>Rubus occidentalis</i>	black raspberry / 2	2	[UPL]
	<i>LONICERA X BELLA</i>	Bell's honeysuckle	2	[FACU]
X	<i>Ribes cynosbati</i>	dogberry / 3	20	[UPL]
X	<i>Prunus virginiana</i>	chokecherry / 3	5	FAC-
<b><u>Tree</u></b>				
	<i>Acer negundo</i>	box elder / 0	5	FACW-
	<i>Ulmus americana</i>	American elm / 3	5	FACW-
	<i>Carya ovata</i>	shagbark hickory / 5	5	FACU
X	<i>Quercus rubra</i>	northern red oak / 5	75	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **25**

NOTE: Species in capital letters denote non-native species.

### Remarks

The vegetation at this sample point is not dominated by hydrophytic species.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;18</b>		
Depth to Saturated Soils(in.): <b>&gt;18</b>		

### Remarks

There were no observed indicators of wetland hydrology.

### Soils

Unit Name: **Kidder loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **moderately well**

☒ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10		10YR 3/2				Silt Loam
10-18		10YR 5/4				Silt Loam

#### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This is an upland point along the margin of an off-site wetland.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**

Town/Village/City: **Verona**

Wetland Data Point: **P-03**

Project/Site: **Liberty Business Park**

Applicant/Owner:

Investigator: **Jeff Kraemer**

Date: **November 03, 2009**

County: **Dane**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Wetland 1a**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[Yes] Is the area a potential problem area?

Plot ID: **P-03**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b>Herbaceous</b>				
X	<i>Geum canadense</i>	white avens / 2	2	FAC
<b>Tree</b>				
X	<i>Ulmus americana</i>	American elm / 3	20	FACW-
X	<i>Acer negundo</i>	box elder / 0	5	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **100**

NOTE: Species in capital letters denote non-native species.

### Remarks

Hydrophytic species dominate the vegetation here.

### Hydrology

- [ ] Recorded Data (describe in remarks)  
[ ] Stream, Lake, or Tide Gage  
[ ] Aerial Photograph  
[ ] Other (describe in remarks)

Field Observations:

Depth of Surface Water(in.): **0**  
Depth to Free Water in Pit(in.): **>18**  
Depth to Saturated Soils(in.): **>18**

#### Primary Wetland Hydrology Indicators

- [ ] Inundated  
[ ] Saturated in upper 12 inches  
[X] Water marks  
[ ] Drift lines  
[ ] Sediment deposits  
[ ] Drainage patterns in wetlands

#### Secondary Hydrology Indicators

- [X] Oxidized root channels  
[X] Water-stained leaves  
[ ] Local soil survey data  
[X] FAC-Neutral test  
[ ] Other (explain in remarks)

### Remarks

Identified as a problem area due to seasonal occurrence of wetland hydrology.

### Soils

Unit Name: **Dodge and Kidder soils**

Taxonomy: **NA**

Drainage Class: **well**

[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-4		10YR 3/2				Silt Loam
4-11		10YR 3/2	10YR 5/6	common	prominent	Silt Loam
11-18		10YR 4/1	10YR 5/6	common	prominent	Silt Loam

#### Hydric Soils Indicators

- [ ] Histosol  
[ ] Histic Epipedon  
[ ] Sulfidic Odor  
[ ] Probable Aquatic Moist Regime  
[ ] Reducing Conditions  
[X] Gleyed or Low-Chroma Colors
- [ ] Concretions  
[ ] High Organic % in Surface Layer in Sandy Soils  
[ ] Organic Streaking in Sandy Soils  
[ ] Listed on Local Hydric Soils List  
[ ] Listed on National Hydric Soils List  
[ ] Other (explain in remarks)

### Remarks

F6. Redox Dark Surface.

### Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] This Data Point is a Wetland

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

### Remarks

This is the edge of an ephemeral wetland - Wetland 1a.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-04**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Wetland 1b**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[Yes] Is the area a potential problem area?

Plot ID: **P-04**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b>Herbaceous</b>				
X	<i>Geum canadense</i>	white avens / 2	2	FAC
<b>Shrub</b>				
	<i>RHAMNUS CATHARTICA</i>	common buckthorn	2	FACU
X	<i>Sambucus canadensis</i>	elderberry / 3	15	FACW-
<b>Tree</b>				
	<i>Carya ovata</i>	shagbark hickory / 5	5	FACU
X	<i>Acer negundo</i>	box elder / 0	10	FACW-
X	<i>Ulmus americana</i>	American elm / 3	10	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **100**

NOTE: Species in capital letters denote non-native species.

### Remarks

This point is dominated by hydrophytic species.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input checked="" type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input checked="" type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;18</b>		
Depth to Saturated Soils(in.): <b>&gt;18</b>		

### Remarks

This point was identified as a problem area due to the seasonal occurrence of wetland hydrology.

### Soils

Unit Name: **Dodge and Kidder soils**

Taxonomy: **NA**

Drainage Class: **well**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-3		10YR 2/2				Silt Loam
3-8		10YR 3/2	10YR 5/6	common	prominent	Silt Loam
8-18		10YR 5/1	10YR 5/6	many	prominent	Silt Loam

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input checked="" type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

F3. Depleted Matrix and F6. Redox Dark Surface

### Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] This Data Point is a Wetland

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

### Remarks

This point is within a depressional draw, a glacial feature.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-05**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-05**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b><u>Herbaceous</u></b>				
X	<i>Geum canadense</i>	white avens / 2	2	FAC
<b><u>Shrub</u></b>				
X	<i>Prunus virginiana</i>	chokecherry / 3	5	FAC-
X	<i>Rubus occidentalis</i>	black raspberry / 2	15	[UPL]
<b><u>Tree</u></b>				
	<i>Celtis occidentalis</i>	northern hackberry / 4	10	FAC-
	<i>Prunus serotina</i>	wild black cherry / 3	5	FACU
	<i>Carya ovata</i>	shagbark hickory / 5	5	FACU
X	<i>Quercus rubra</i>	northern red oak / 5	70	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **25**

NOTE: Species in capital letters denote non-native species.

### Remarks

The vegetation is not dominated by hydrophytic species.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;18</b>		
Depth to Saturated Soils(in.): <b>&gt;18</b>		

### Remarks

There were no hydrology indicators observed.

### Soils

Unit Name: **Kidder loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **well**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-11		10YR 3/2				Silt Loam
11-18		10YR 4/4				Silty Clay Loam

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

There were no hydric soil indicators observed.

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is not in a wetland.





## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-06**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-06**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b>Herbaceous</b>				
X	<i>Geum canadense</i>	white avens / 2	2	FAC
<b>Shrub</b>				
	<i>RHAMNUS CATHARTICA</i>	common buckthorn	5	FACU
X	<i>Prunus virginiana</i>	chokecherry / 3	10	FAC-
X	<i>Sambucus canadensis</i>	elderberry / 3	15	FACW-
X	<i>Zanthoxylum americanum</i>	common prickly-ash / 3	10	UPL
<b>Tree</b>				
	<i>Acer negundo</i>	box elder / 0	10	FACW-
	<i>Quercus alba</i>	white oak / 7	5	FACU
	<i>Prunus serotina</i>	wild black cherry / 3	2	FACU
X	<i>Quercus rubra</i>	northern red oak / 5	70	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **40**

NOTE: Species in capital letters denote non-native species.

### Remarks

The vegetation is not dominated by hydrophytic species.

### Hydrology

- [ ] Recorded Data (describe in remarks)  
[ ] Stream, Lake, or Tide Gage  
[ ] Aerial Photograph  
[ ] Other (describe in remarks)

Field Observations:

Depth of Surface Water(in.): **0**  
Depth to Free Water in Pit(in.): **>10**  
Depth to Saturated Soils(in.): **>10**

#### Primary Wetland Hydrology Indicators

- [ ] Inundated  
[ ] Saturated in upper 12 inches  
[ ] Water marks  
[ ] Drift lines  
[ ] Sediment deposits  
[ ] Drainage patterns in wetlands

#### Secondary Hydrology Indicators

- [ ] Oxidized root channels  
[ ] Water-stained leaves  
[ ] Local soil survey data  
[ ] FAC-Neutral test  
[ ] Other (explain in remarks)

### Remarks

There were no hydrologic indicators observed.

### Soils

Unit Name: **Dodge and Kidder soils**

Taxonomy: **NA**

Drainage Class: **well**

[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-9		10YR 2/2				Silt Loam
9-10		2.5Y 5/3				Silt Loam

#### Hydric Soils Indicators

- |                                   |  |
|-----------------------------------|--|
| [ ] Histosol                      | [ ] Concretions                                    |
| [ ] Histic Epipedon               | [ ] High Organic % in Surface Layer in Sandy Soils |
| [ ] Sulfidic Odor                 | [ ] Organic Streaking in Sandy Soils               |
| [ ] Probable Aquatic Moist Regime | [ ] Listed on Local Hydric Soils List              |
| [ ] Reducing Conditions           | [ ] Listed on National Hydric Soils List           |
| [ ] Gleyed or Low-Chroma Colors   | [ ] Other (explain in remarks)                     |

### Remarks

There were no hydric soil indicators observed.

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is a low lying upland near a culvert.



**Data Form**  
**Routine Wetland Determination**

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-07**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Wetland 2**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-07**

**Vegetation**

Dominant	Species	Common Name / CofC	% Cover	Indicator
	X			

% Species that are OBL, FACW, or FAC (except FAC-):

NOTE: Species in capital letters denote non-native species.

**Remarks**

There was no vegetation adjacent to or within the pond.

**Hydrology**

- [X] Recorded Data (describe in remarks)  
[ ] Stream, Lake, or Tide Gage  
[X] Aerial Photograph  
[ ] Other (describe in remarks)

*Primary Wetland Hydrology Indicators*

- [ ] Inundated  
[X] Saturated in upper 12 inches  
[ ] Water marks  
[ ] Drift lines  
[ ] Sediment deposits  
[ ] Drainage patterns in wetlands

*Secondary Hydrology Indicators*

- [ ] Oxidized root channels  
[ ] Water-stained leaves  
[ ] Local soil survey data  
[ ] FAC-Neutral test  
[ ] Other (explain in remarks)

Field Observations:

Depth of Surface Water(in.): **0**

Depth to Free Water in Pit(in.): **4**

Depth to Saturated Soils(in.): **0**

**Remarks**

Sample point is at the pond margin. The pond contains open water with depths estimated to 3 feet.

**Soils**

Unit Name: **Kidder loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **well**

[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle			Texture, Structure, etc.
			Color	Abundance	Contrast	
0-16		10YR 5/1	10YR 5/6	common	prominent	Silty Clay Loam

*Hydric Soils Indicators*

- |                                   |  |
|-----------------------------------|--|
| [ ] Histosol                      | [ ] Concretions                                    |
| [ ] Histic Epipedon               | [ ] High Organic % in Surface Layer in Sandy Soils |
| [ ] Sulfidic Odor                 | [ ] Organic Streaking in Sandy Soils               |
| [ ] Probable Aquatic Moist Regime | [ ] Listed on Local Hydric Soils List              |
| [ ] Reducing Conditions           | [ ] Listed on National Hydric Soils List           |
| [X] Gleyed or Low-Chroma Colors   | [ ] Other (explain in remarks)                     |

**Remarks**

F3 Depleted Matrix

**Wetland Determination**

[No] Hydrophytic Vegetation Present

[Yes] This Data Point is a Wetland

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

**Remarks**

This data point is adjacent to a pond which contained an estimated three feet of water. Vegetation was not present.



## Data Form Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-08**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-08**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b><u>Herbaceous</u></b>				
X	<i>Geum canadense</i>	white avens / 2	5	FAC
<b><u>Shrub</u></b>				
	<i>Prunus virginiana</i>	chokecherry / 3	2	FAC-
X	<i>RHAMNUS CATHARTICA</i>	common buckthorn	10	FACU
<b><u>Tree</u></b>				
	<i>Prunus serotina</i>	wild black cherry / 3	10	FACU
	<i>Acer negundo</i>	box elder / 0	2	FACW-
	<i>Carya ovata</i>	shagbark hickory / 5	5	FACU
X	<i>Quercus rubra</i>	northern red oak / 5	70	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **33**

NOTE: Species in capital letters denote non-native species.

### Remarks

The vegetation was not dominated by hydrophytic species.

### Hydrology

- [ ] Recorded Data (describe in remarks)  
[ ] Stream, Lake, or Tide Gage  
[ ] Aerial Photograph  
[ ] Other (describe in remarks)

#### Primary Wetland Hydrology Indicators

- [ ] Inundated  
[ ] Saturated in upper 12 inches  
[ ] Water marks  
[ ] Drift lines  
[ ] Sediment deposits  
[ ] Drainage patterns in wetlands

#### Secondary Hydrology Indicators

- [ ] Oxidized root channels  
[ ] Water-stained leaves  
[ ] Local soil survey data  
[ ] FAC-Neutral test  
[ ] Other (explain in remarks)

#### Field Observations:

Depth of Surface Water(in.): **0**  
Depth to Free Water in Pit(in.): **>16**  
Depth to Saturated Soils(in.): **>16**

### Remarks

There were no wetland hydrology indicators observed.

### Soils

Unit Name: **Dodge and Kidder soils**

Taxonomy: **NA**

Drainage Class: **well**

[ ] Field Observations match map

Depth (in.)	Hor. Color	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16		10YR 2/2				Silt Loam
16-20		10YR 4/4				Silty Clay Loam

#### Hydric Soils Indicators

- |                                   |  |
|-----------------------------------|--|
| [ ] Histosol                      | [ ] Concretions                                    |
| [ ] Histic Epipedon               | [ ] High Organic % in Surface Layer in Sandy Soils |
| [ ] Sulfidic Odor                 | [ ] Organic Streaking in Sandy Soils               |
| [ ] Probable Aquatic Moist Regime | [ ] Listed on Local Hydric Soils List              |
| [ ] Reducing Conditions           | [ ] Listed on National Hydric Soils List           |
| [ ] Gleyed or Low-Chroma Colors   | [ ] Other (explain in remarks)                     |

### Remarks

There were no hydric soil indicators observed.

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This data point is in upland woods.



## Data Form Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-09**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-09**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b>Herbaceous</b>				
	ARCTIUM MINUS	common burdock	5	UPL
	TARAXACUM OFFICINALE	common dandelion	2	FACU
	CHENOPODIUM ALBUM	lamb's-quarters	5	FAC-
	ABUTILON THEOPHRASTI	Piemarker	2	FACU-
X	SETARIA ITALICA	foxtail millet	70	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

The vegetation was not dominated by hydrophytic species.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;36</b>		
Depth to Saturated Soils(in.): <b>&gt;36</b>		

### Remarks

There were no wetland hydrology indicators observed.

### Soils

Unit Name: **McHenry silt loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **well**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-32		10YR 2/2				Silt Loam
32-34		10YR 3/2				Silt Loam
34-36		10YR 4/3	10YR 4/6	common	distinct	Silt Loam 2% gravel

#### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is in an upland draw in a soybean field.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-10**

Project/Site: **Liberty Business Park**

Date: **November 03, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-10**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b><u>Herbaceous</u></b>				
X	ABUTILON THEOPHRASTI GLYCINE MAX	Piemarker soybean	2 80	FACU- [UPL]

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

There were no hydrophytic species observed at this point.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;20</b>		
Depth to Saturated Soils(in.): <b>&gt;20</b>		

### Remarks

There were no wetland hydrology indicators observed.

### Soils

Unit Name: **Troxel silt loam**

Taxonomy: **Pachic Argiudolls**

Drainage Class: **Moderately Well Drained**

☐ Field Observations match map

Depth (in.)	Hor. Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16	10YR 2/2				Silt Loam
16-20	10YR 4/4				Silt Loam

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is at a low spot in a soybean field. Wetland indicators were not observed.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-11**

Project/Site: **Liberty Business Park**

Applicant/Owner:

Investigator: **Jeff Kraemer**

Date: **November 03, 2009**

County: **Dane**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Wetland 3**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-11**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b><u>Herbaceous</u></b>				
X	<i>ABUTILON THEOPHRASTI</i> <i>Panicum dichotomiflorum</i>	Piemarker knee grass / 0	2 90	FACU- FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **100**

NOTE: Species in capital letters denote non-native species.

### Remarks

The vegetation at this point was dominated by hydrophytic species.

### Hydrology

[X] Recorded Data (describe in remarks)

[ ] Stream, Lake, or Tide Gage

[X] Aerial Photograph

[ ] Other (describe in remarks)

#### Primary Wetland Hydrology Indicators

[ ] Inundated

[ ] Saturated in upper 12 inches

[ ] Water marks

[ ] Drift lines

[ ] Sediment deposits

[ ] Drainage patterns in wetlands

#### Secondary Hydrology Indicators

[ ] Oxidized root channels

[ ] Water-stained leaves

[ ] Local soil survey data

[X] FAC-Neutral test

[X] Other (explain in remarks)

Field Observations:

Depth of Surface Water(in.): **0**

Depth to Free Water in Pit(in.): **>20**

Depth to Saturated Soils(in.): **14**

### Remarks

This is a depression in an agricultural field. Aerial photos show wetland signatures consistent with the wetland location and extent identified in the field.

### Soils

Unit Name: **St. Charles silt loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **moderately well to well**

[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-9		10YR 3/2				Silt Loam
9-14		10YR 3/2	10YR 4/6	common	distinct	Silt Loam
14-20		2.5Y 4/2	2.5Y 5/6	common	distinct	Silt Loam

#### Hydric Soils Indicators

[ ] Histosol

[ ] Histic Epipedon

[ ] Sulfidic Odor

[ ] Probable Aquatic Moist Regime

[ ] Reducing Conditions

[X] Gleyed or Low-Chroma Colors

[ ] Concretions

[ ] High Organic % in Surface Layer in Sandy Soils

[ ] Organic Streaking in Sandy Soils

[ ] Listed on Local Hydric Soils List

[ ] Listed on National Hydric Soils List

[ ] Other (explain in remarks)

### Remarks

F6. Redox Dark Surface.

### Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] This Data Point is a Wetland

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

### Remarks

This area was a depression in a farm field that was not farmed this year.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-12**

Project/Site: **Liberty Business Park**

Date: **November 06, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-12**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<u>Herbaceous</u>				
X	GLYCINE MAX	soybean	80	[UPL]

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

There was no apparent crop damage at this point.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;27</b>		
Depth to Saturated Soils(in.): <b>&gt;27</b>		

### Remarks

No indicators of wetland hydrology were observed at this point.

### Soils

Unit Name: **Troxel silt loam**

Taxonomy: **Pachic Argiudolls**

Drainage Class: **moderately well**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-13		10YR 3/3				Silt Loam
13-15		10YR 3/3	10YR 4/3	few	faint	Silt Loam
15-22		10YR 3/2	10YR 5/6	common	distinct	Silt Loam
22-27		2.5Y 5/2	2.5Y 5/6	few	distinct	Clay Loam

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This area is a depression in a soybean field.





## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-13**

Project/Site: **Liberty Business Park**

Date: **November 06, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-13**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<u>Herbaceous</u>				
X	GLYCINE MAX	soybean	80	[UPL]

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

This point is in a soybean field where there is no apparent crop damage.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;30</b>		
Depth to Saturated Soils(in.): <b>&gt;30</b>		

### Remarks

There were no indicators of wetland hydrology observed at this point.

### Soils

Unit Name: **Troxel silt loam**

Taxonomy: **Pachic Argiudolls**

Drainage Class: **Moderately Well Drained**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-15		10YR 3/3				Silt Loam
15-20		10YR 3/2	10YR 5/6	common	distinct	Silt Loam
20-26		10YR 3/2	10YR 5/6	common	distinct	Silt Loam
			10YR 4/2	common	distinct	
26-30		10YR 2/1	10YR 5/6	common	faint	Silt Loam mottles of 10YR 3/2 silt loam

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is in a depression in a soybean field. There was no apparent crop damage.



## Data Form Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-14**

Project/Site: **Liberty Business Park**

Applicant/Owner:

Investigator: **Jeff Kraemer**

Date: **November 06, 2009**

County: **Dane**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-14**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<u>Herbaceous</u>				
X	GLYCINE MAX	soybean	80	[UPL]

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

This point is in a soybean field with no apparent crop damage in this location.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;23</b>		
Depth to Saturated Soils(in.): <b>&gt;23</b>		

### Remarks

There were no wetland hydrology indicators observed at this point.

### Soils

Unit Name: **St. Charles silt loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **moderately well to well**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16		10YR 3/3				Silt Loam
16-19		10YR 3/2				Silt Loam
19-23		10YR 3/2	10YR 4/4	common	faint	Silt Loam

### Hydric Soils Indicators

- |  |   |
|--|---|
| <input type="checkbox"/> Histosol                      | <input type="checkbox"/> Concretions                                    |
| <input type="checkbox"/> Histic Epipedon               | <input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor                 | <input type="checkbox"/> Organic Streaking in Sandy Soils               |
| <input type="checkbox"/> Probable Aquatic Moist Regime | <input type="checkbox"/> Listed on Local Hydric Soils List              |
| <input type="checkbox"/> Reducing Conditions           | <input type="checkbox"/> Listed on National Hydric Soils List           |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors   | <input type="checkbox"/> Other (explain in remarks)                     |

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This data point is at the margin of a farmed wetland.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-15**

Project/Site: **Liberty Business Park**

Date: **November 06, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-15**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<u>Herbaceous</u>				
X	GLYCINE MAX	soybean	80	[UPL]

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

This point is in a soybean field with no apparent crop damage at this location.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;25</b>		
Depth to Saturated Soils(in.): <b>&gt;25</b>		

### Remarks

There were no indicators of wetland hydrology observed at this point.

### Soils

Unit Name: **St. Charles silt loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **Moderately Well Drained**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-20		10YR 3/2				Silt Loam
20-25		10YR 3/2	10YR 4/4	common	distinct	Silt Loam
			10YR 4/2	common	faint	

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydropytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is on the margin of a farmed wetland, but is not wetland. There is no apparent crop damage here.



## Data Form Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-16**

Project/Site: **Liberty Business Park**

Applicant/Owner:

Investigator: **Jeff Kraemer**

Date: **November 06, 2009**

County: **Dane**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-16**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<u>Herbaceous</u>				
X	GLYCINE MAX	soybean	80	[UPL]

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

### Remarks

This point is in a soybean field with no apparent crop damage.

### Hydrology

	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
<input type="checkbox"/> Recorded Data (describe in remarks)	<input type="checkbox"/> Inundated	<input type="checkbox"/> Oxidized root channels
<input type="checkbox"/> Stream, Lake, or Tide Gage	<input type="checkbox"/> Saturated in upper 12 inches	<input type="checkbox"/> Water-stained leaves
<input type="checkbox"/> Aerial Photograph	<input type="checkbox"/> Water marks	<input type="checkbox"/> Local soil survey data
<input type="checkbox"/> Other (describe in remarks)	<input type="checkbox"/> Drift lines	<input type="checkbox"/> FAC-Neutral test
Field Observations:	<input type="checkbox"/> Sediment deposits	<input type="checkbox"/> Other (explain in remarks)
Depth of Surface Water(in.): <b>0</b>	<input type="checkbox"/> Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): <b>&gt;23</b>		
Depth to Saturated Soils(in.): <b>&gt;23</b>		

### Remarks

There were no indicators of wetland hydrology observed here.

### Soils

Unit Name: **Troxel silt loam**

Taxonomy: **Pachic Argiudolls**

Drainage Class: **moderately well**

☐ Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-13		10YR 3/2				Silt Loam
13-15		10YR 3/3				Silt Loam
15-23		10YR 2/1				Silt Loam

### Hydric Soils Indicators

<input type="checkbox"/> Histosol	<input type="checkbox"/> Concretions
<input type="checkbox"/> Histic Epipedon	<input type="checkbox"/> High Organic % in Surface Layer in Sandy Soils
<input type="checkbox"/> Sulfidic Odor	<input type="checkbox"/> Organic Streaking in Sandy Soils
<input type="checkbox"/> Probable Aquatic Moist Regime	<input type="checkbox"/> Listed on Local Hydric Soils List
<input type="checkbox"/> Reducing Conditions	<input type="checkbox"/> Listed on National Hydric Soils List
<input type="checkbox"/> Gleyed or Low-Chroma Colors	<input type="checkbox"/> Other (explain in remarks)

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This point is at the margin of a farmed wetland. There was no apparent crop damage in the soybeans here.



## Data Form

### Routine Wetland Determination

Job Number: **009-0265-01**  
Town/Village/City: **Verona**  
Wetland Data Point: **P-17**

Project/Site: **Liberty Business Park**

Date: **November 06, 2009**

Applicant/Owner:

County: **Dane**

Investigator: **Jeff Kraemer**

State: **WI**

[Yes] Do normal circumstances exist on the site?

Community ID: **Upland**

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID:

[No] Is the area a potential problem area?

Plot ID: **P-17**

### Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<b><u>Herbaceous</u></b>				
	<i>BROMUS INERMIS</i>	smooth brome	15	UPL
	<i>Urtica dioica</i>	stinging nettle / 1	5	FAC+
	<i>Ambrosia trifida</i>	giant ragweed / 0	5	FAC+
	<i>SETARIA FABERI</i>	giant foxtail	5	FACU+
X	<i>ARCTIUM MINUS</i>	common burdock	50	UPL
<b><u>Tree</u></b>				
X	<i>Acer negundo</i>	box elder / 0	10	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **50**

NOTE: Species in capital letters denote non-native species.

### Remarks

Not more than 50% of the dominant species are hydrophytic.

### Hydrology

- [ ] Recorded Data (describe in remarks)  
[ ] Stream, Lake, or Tide Gage  
[ ] Aerial Photograph  
[ ] Other (describe in remarks)

#### Primary Wetland Hydrology Indicators

- [ ] Inundated  
[ ] Saturated in upper 12 inches  
[ ] Water marks  
[ ] Drift lines  
[ ] Sediment deposits  
[ ] Drainage patterns in wetlands

#### Secondary Hydrology Indicators

- [ ] Oxidized root channels  
[ ] Water-stained leaves  
[ ] Local soil survey data  
[ ] FAC-Neutral test  
[ ] Other (explain in remarks)

Field Observations:

Depth of Surface Water(in.): **0**  
Depth to Free Water in Pit(in.): **>24**  
Depth to Saturated Soils(in.): **>24**

### Remarks

There were no indicators of wetland hydrology observed here.

### Soils

Unit Name: **Dodge silt loam**

Taxonomy: **Typic Hapludalfs**

Drainage Class: **well**

[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-17		10YR 3/2				Silt Loam
17-19		2.5Y 5/3	2.5Y 5/4	few	faint	Silt Loam
19-24		2.5Y 5/4				Silty Clay Loam

#### Hydric Soils Indicators

- |                                   |  |
|-----------------------------------|--|
| [ ] Histosol                      | [ ] Concretions                                    |
| [ ] Histic Epipedon               | [ ] High Organic % in Surface Layer in Sandy Soils |
| [ ] Sulfidic Odor                 | [ ] Organic Streaking in Sandy Soils               |
| [ ] Probable Aquatic Moist Regime | [ ] Listed on Local Hydric Soils List              |
| [ ] Reducing Conditions           | [ ] Listed on National Hydric Soils List           |
| [ ] Gleyed or Low-Chroma Colors   | [ ] Other (explain in remarks)                     |

### Remarks

### Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present

[No] Wetland Hydrology Present

### Remarks

This area is a depression in a corn field. The farmer plants around this area of box elder trees.

## **APPENDIX B**

### **SITE PHOTOGRAPHS**





Photo 01. Upland kettle in the southeastern corner of the property; view near Sample Point P-01.



Photo 02. Portion of Wetland 1a/1b that is offsite, view near Sample Points P-02 and P-03.





Photo 03. Wetland 1b, view southeast towards property boundary, including Sample Point P-04.



Photo 04. Culvert near Wetland 2, near Sample Point P-08.



Photo 05. Wetland 2, view north-northeast from southern wetland boundary.

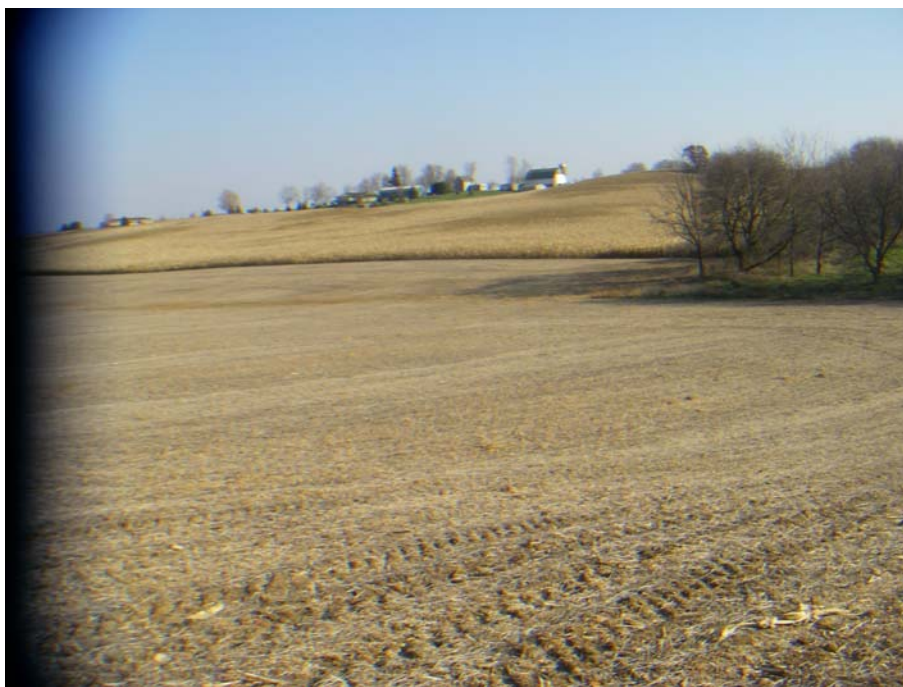


Photo 06. Soybean field, view east toward Sample Point P-09.





Photo 07. Soybean field, view west.



Photo 08. Soybean field, view south towards Sample Point 10.



Photo 09. Soybean field, view north toward Sample Point P-13.



Photo 10. Wetland 3, view north-northeast from near western wetland boundary.





Photo 11. Soybean field, view southwest from western boundary of Wetland 3.



Photo 12. Wetland 3, view west-southwest towards wetland boundary. Sample Point P-16 indicated by pink flagging.



Photo 13. Wetland 3, view west across northern wetland boundary.



Photo 14. View east along northern property boundary near Wetland 3.





Photo 15. Cornfield off-site to the west.



Photo 16. Sample Point P-17, unfarmed pocket in farm field.



Photo 17. View north-northwest of farm field north of Whalen Road.



Photo 18. View northeast of farm field north of Whalen Road.



## **APPENDIX C**

### **PREVIOUS REGULATORY DETERMINATIONS ON PROPERTY**



119 South Main Street | PO Box 128 | Cottage Grove, Wisconsin 53527-0128  
Ph: 608.839.1998 | Fax: 608.839.1995

[www.nrc-inc.net](http://www.nrc-inc.net)

May 31, 2007

Mr. Andrew Stein  
Clark Street Development  
980 North Michigan Avenue Suite 1280  
Chicago, IL 60611

**RE: Wetland Determination at the Verona Commercial Development Site in the Town of Verona, Dane County, Wisconsin.**

Dear Mr. Stein:

Natural Resources Consulting (NRC) performed a wetland determination at the Verona Commercial Development Site, located to the east of U.S. Highways 18/151 and CTH PB, north of CTH M, and south of Whalen Road in the Town of Verona, Dane County, Wisconsin ("the Property"). A small portion of the Property is also located to the west of CTH PB. Specifically, the Property is located in the Southeast ¼ of Section 23, Township 6 North, Range 8 East (Figure 1). Wetlands or areas that meet wetland criteria do not exist on the Property.

The objective of the wetland determination was to verify the extent and spatial arrangement of wetlands if they exist on the Property. Wetland determinations are made using the criteria and methods outlined in the U.S. Army Corps of Engineers (USACE) Manual (USACE 1987), subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), and the Basic Guide to Wisconsin's Wetlands and their Boundaries (Wisconsin Department of Administration Coastal Management Program 1995).

The initial steps in the wetland determination included a review of the following documents:

1. U.S. Geological Survey Topographic Map (Figure 1);
2. Natural Resources Conservation Service (NRCS), formerly the Soil Conservation Service (SCS), excerpts from *Soil Survey of Dane County, Wisconsin* (Figure 2); and
3. The Wisconsin Wetland Inventory (WWI) map (Figure 3) for the area.

Results

Vegetation on the Property consists primarily of active agricultural fields. The northwestern corner of the Property contains upland woodland, while the southwestern corner of the Property along with the small portion of the Property west of CTH PB contains a ruderal, old field plant community with scattered shrubs and trees. The Property is gently to moderately sloping with topographic highs in the southern portions of approximately 1150 feet above mean sea level (msl). Topographic lows of about 1000 feet msl exist in the northwestern corner of the Property (Figure 1). The Property is bordered by a mix of agricultural fields, woodland, and low density residential housing to the north, east, and south, and by the Highway 18/151 bypass to the west.

The soil survey map identifies St. Charles (ScA, ScB), Dodge (DnB, DnC2), McHenry (MdC2, MdD2), and Troxel (TrB) soils on the Property (Figure 2). The St. Charles series consists of well drained silty and loamy soils that formed in glacial till or glacial outwash covered by a thick cap of wind blown loess. The Dodge series consists of well drained silty and loamy soils that formed in glacial till covered with a moderately thick cap of wind blown loess. The McHenry series consists of well drained silty and loamy soils that formed in glacial till covered with a thin cap of wind blown loess. The Troxel series consists of well drained silty soils that formed in localized colluvial sediments overlying glacial till or glacial outwash. According to the hydric soils list for Dane County, Troxel soils can contain inclusions of poorly drained soils, while none of the other soil map units on the Property are hydric.

The Wisconsin Wetland Inventory (WWI) map does not identify wetlands on or adjacent to the Property (Figure 3). The topographic map of the Property does show an intermittent stream in the central and northern portions of the Property (Figures 1 and 3), which was not in evidence during the field visit. The topographic map also indicated a small area of open water just off of the Property to the west, which like the intermittent stream was not in evidence during the site visit.

Field observations were made on May 1 and May 21, 2007 by Neil Molstad of NRC. Little to no vegetation was present within the active agricultural fields on the Property, as the fields had been tilled and cultivated in preparation for planting. The woodland in the northwestern portion of the Property was dominated by bur oak trees (*Quercus macrocarpa*, FAC-) with an understory consisting primarily of garlic mustard (*Alliaria petiolata*, FAC). The old field area west of CTH PB was dominated by Kentucky bluegrass (*Poa pratensis*, FAC-), quaking aspen (*Populus tremuloides*, FAC), Canada goldenrod (*Solidago canadensis*, FACU), box elder (*Acer negundo*, FACW-), and honeysuckle (*Lonicera x bella*, NI).

The drainageway depicted in Figures 1 and 3 does not exist throughout most of the Property. No evidence of any sort of stream channel was observed on the active agricultural fields in or around the area where the stream is mapped, including off of the Property to the east. A narrow drainageway was observed within the southeastern portion of the wooded portion of the Property, extending for approximately 200 feet. No water was present within this channel, and it was not clear in which direction, if any, this ditch conveys water. No defined bed and banks were observed within the rest of the woodland. A navigability determination for the mapped intermittent drainageway has been submitted to Cami Peterson of the WDNR.

Seven sample points were taken on and around the Property, in representative landscape positions and in questionable areas (Figure 3). While some of the sample points were dominated by hydrophytic vegetation and/or exhibited hydric soil field indicators, no location satisfied all three wetland criteria.

In summary, at least one of the three wetland criteria was not satisfied for the entirety of the Property. Therefore, it was determined that no wetland areas are present on the Property.

The information provided by NRC regarding wetland boundaries and determinations presented are the best estimates of the conditions at the time the site is viewed. The ultimate decision on wetland boundaries and determinations rests with the U.S. Army Corps of Engineers and, in some cases, the Wisconsin Department of Natural Resources, or a local unit of government. As a result, there may be adjustments to determinations based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to, recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change with time, depending on the weather, vegetation patterns, drainage, activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site. It is recommended the Client obtain an opinion and authority from regulating government agencies before proceeding with any development or utilization of the property. If the Client proceeds to change, modify or utilize the

property in question without obtaining authorization from the regulating governmental agency, it will be done at the Client's own risk and NRC will not be responsible or liable for any resulting damages.

If you have any questions, or require any additional information, please call me at (608) 839-1998.

Sincerely,  
***Natural Resources Consulting, Inc.***

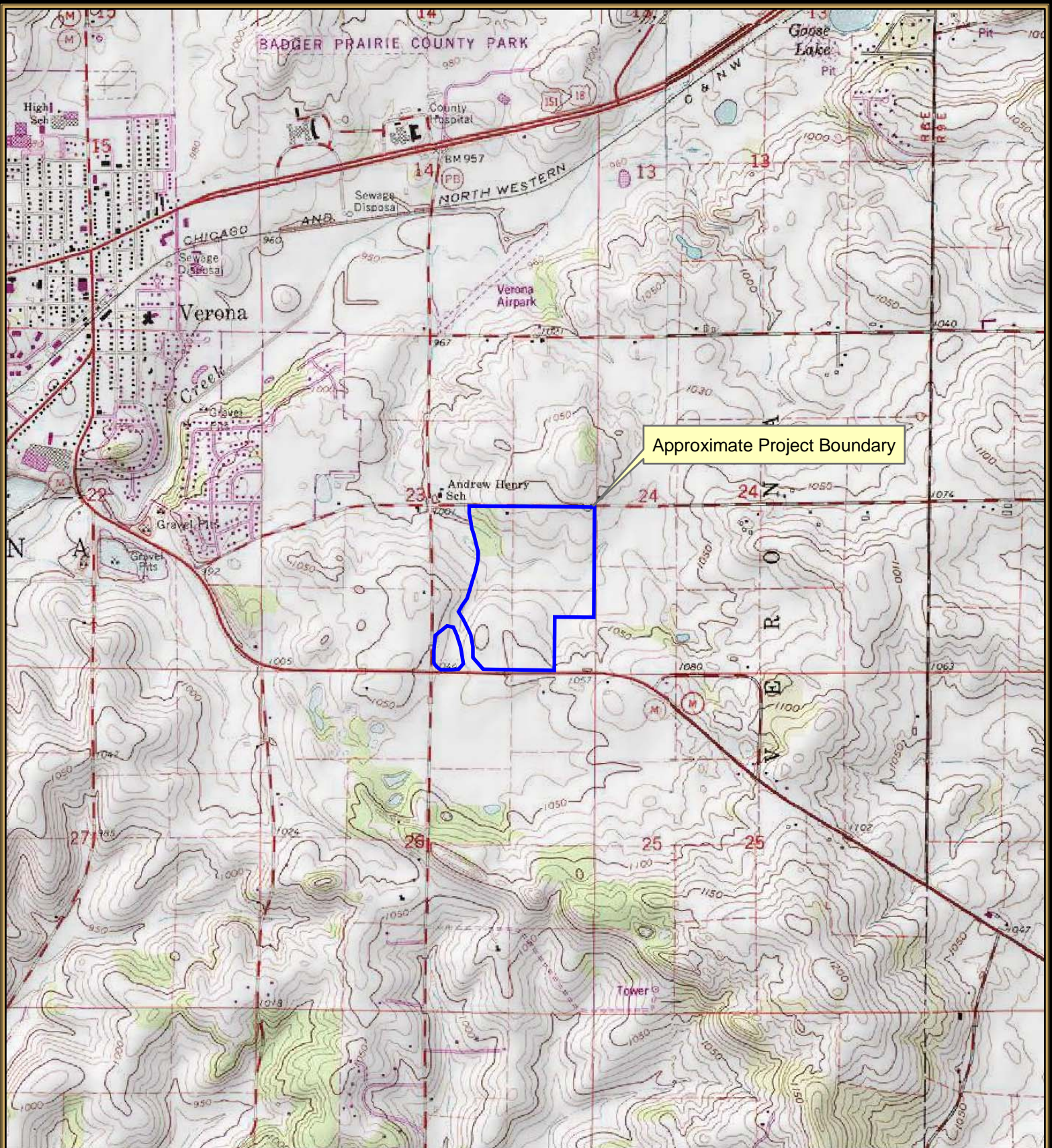
Neil Molstad, CPSS/PSS  
Environmental Scientist/Soils

Attachments:

Figure 1: USGS Map  
Figure 2: Soil Survey Map  
Figure 3: WWI Map with sample point locations

ACOE Data Sheets  
Photographs





**FIGURE 1. PROJECT LOCATION AND USGS TOPOGRAPHY**  
**Verona Commercial Development Site**



**Location**

SEQ of Section 23, T6N, R8E,  
 Town of Verona, Dane County, WI

**Project Information**

NRC Project Number : 007-0061-01  
 Modified April 30, 2007

0 1,000 2,000 Feet

**Legend**

Approximate Project Boundary



119 South Main Street  
 P.O. Box 128  
 Cottage Grove, WI 53527-0128  
 phone: 608-839-1998  
 fax: 608-839-1995

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**FIGURE 2. NRCS SOIL SURVEY DATA**  
**Verona Commercial Development Site**



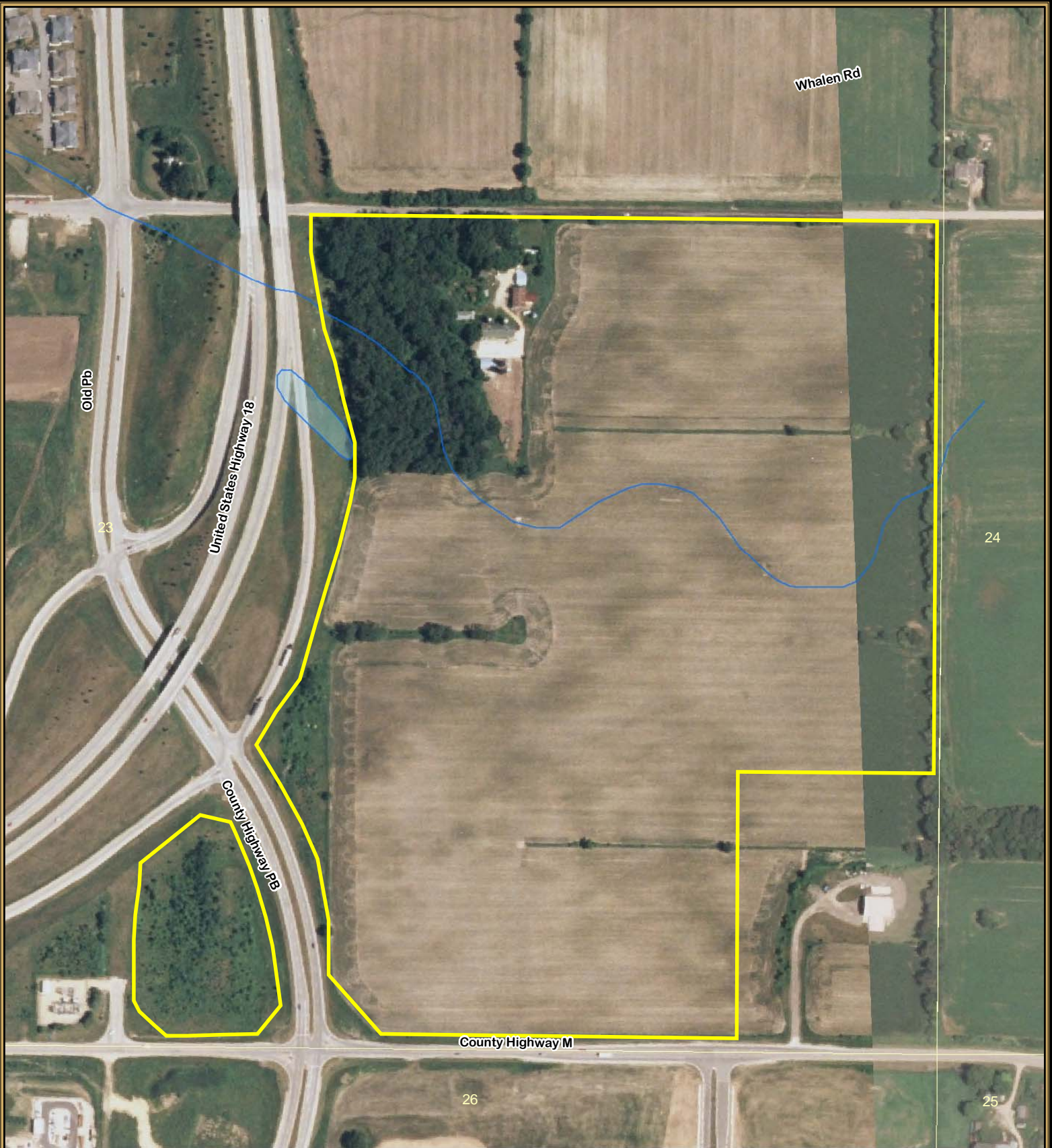
<p><b>Location</b></p> <p>SEQ of Section 23, T6N, R8E, Town of Verona, Dane County, WI</p> <p><b>Project Information</b></p> <p>NRC Project Number : 007-0061-01 Modified April 30, 2007</p>	<p>0 200 400 Feet</p>
--	-----------------------

<p><b>Legend</b></p> <p>Approximate Project Boundary</p> <p>24K Hydro Layer</p> <p>Section Line</p>	<p><b>NRCS Soil Survey Data</b></p> <p>Hydic Soils</p> <p>Poss. Hydic Inclusions</p> <p>Non-Hydic Soils</p>
---	---

**NRC**  
Natural Resources Consulting, Inc.

119 South Main Street  
P.O. Box 128  
Cottage Grove, WI 53527-0128  
phone: 608-839-1998  
fax: 608-839-1995  
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**FIGURE 3. WI WETLAND INVENTORY**  
**Verona Commercial Development Site**



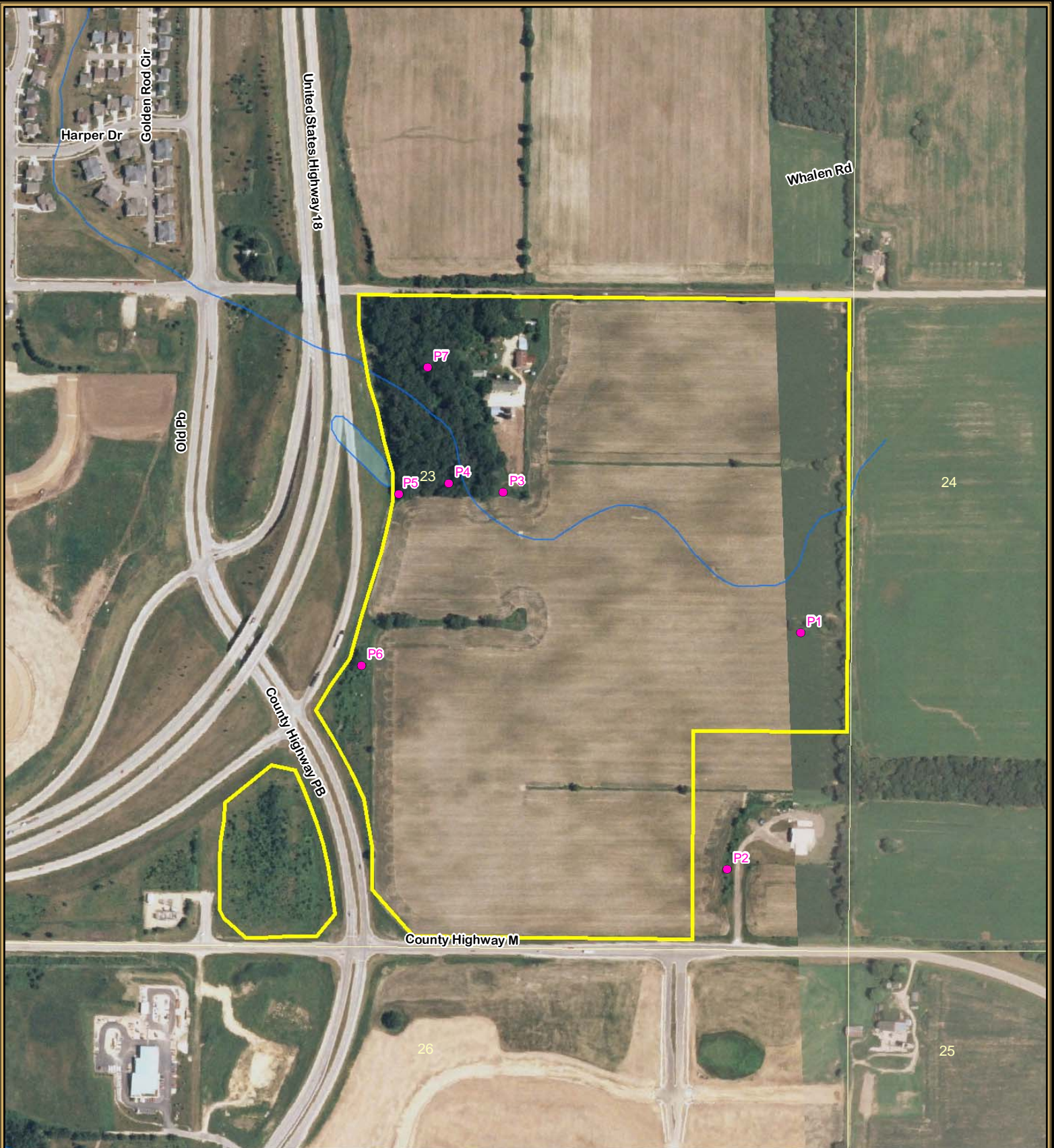
<p><b>Location</b></p> <p>SEQ of Section 23, T6N, R8E, Town of Verona, Dane County, WI</p> <p><b>Project Information</b></p> <p>NRC Project Number : 007-0061-01 Modified April 30, 2007</p>	<p>0 200 400 Feet</p>
--	-----------------------

<p><b>Legend</b></p> <p>Approximate Project Boundary</p> <p>WWI Dane County</p> <p>24K Hydro Layer</p> <p>Section Line</p> <p>No Data In Frame</p>
--

**NRC**  
 Natural Resources Consulting, Inc.

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 Cottage Grove, WI 53527-0128  
 phone: 608-839-1998  
 fax: 608-839-1995  
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**FIGURE 4. FIELD DELINEATED WETLANDS**  
**Verona Commercial Development Site**



**Location**

SEQ of Section 23, T6N, R8E,  
 Town of Verona, Dane County, WI

**Project Information**

NRC Project Number : 007-0061-01  
 Modified April 30, 2007

0 200 400 Feet

**Legend**

- Approximate Project Boundary
- Sample Point
- Field Delineated Wetland \*
- 24K Hydro Layer
- Section Line

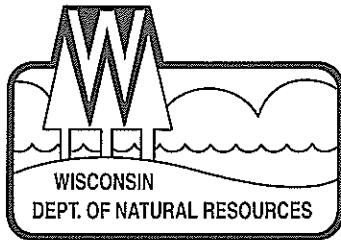
\* No Data In Frame



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## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Lloyd L. Eagan, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Rd  
Fitchburg, Wisconsin 53711  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY 608-275-3231

September 4, 2007

INF-SC-2007-13-6116LR

Neil Molstad  
Natural Resources Consulting, Inc.  
119 South Main St.  
Cottage Grove, WI 55016

RE: Request for Navigability Determination, located in the NE1/4 SE1/4 S23, T6N R8E, City of Verona, Dane County.

Dear Mr. Molstad:

The Department visited the site referenced above to make a navigability determination on an intermittent waterway that flows through the property. In Wisconsin, the Supreme Court has defined a navigable waterway as one which has a defined bed and banks and carries enough water to float a canoe or other watercraft during the spring high water periods. Based on this definition and the conditions observed at your site, the stream on your property has been determined to be not navigable for chapter 30, Wisconsin Statutes purposes.

Please keep in mind that you may require permits from local or federal agencies and from the DNR's stormwater program for work proposed at the site and you should contact the appropriate staff before beginning any construction at this site.

.If you have any questions, please call me at 608-275-3208.

Sincerely,

Cami Peterson  
Water Management Specialist

cc: Stacy Marshall, Project Manager, (262)547-4171, Waukesha, WI U.S. Army Corps of Engineers  
Dane County Zoning Administrator  
Dane County Land and Water Resources  
Kamran Mesbah, Dane County Planning



REPLY TO  
ATTENTION OF  
September 19, 2007

DEPARTMENT OF THE ARMY  
ST. PAUL DISTRICT, CORPS OF ENGINEERS  
SIBLEY SQUARE AT MEARS PARK  
190 FIFTH STREET EAST, SUITE 401  
ST. PAUL MN 55101-1638

Operations  
Regulatory (2007-02956-SLM)

Mr. Andrew Stein  
Clark Street Development  
980 North Michigan Ave., Suite 1280  
Chicago, IL 60611

Dear Mr. Stein:

This is in response to a letter dated May 31, 2007 that we received from NRC, Inc. requesting Corps concurrence with the wetland delineation they completed on your property. The project site is located in the Section 23, T. 6N., R. 8E., City of Verona, Dane County, Wisconsin.

We have reviewed the wetland delineation report you provided and concur that the wetland boundary on the property has been established in accordance with the *Corps of Engineers Wetland Delineation Manual* (1987 Manual) and is adequate to establish the limits of Corps of Engineers Clean Water Act jurisdiction. This wetland delineation shall remain valid for a period of five years from the date of this letter, unless new information warrants revision of the delineation before the expiration date.

We have determined that the subject property does not include any surface water resources that are waters of the United States.

This letter is valid only for the project referenced above. If any change in design, location, or purpose is contemplated, contact this office to avoid doing work that may be in violation of Federal law. PLEASE NOTE THAT THIS CONFIRMATION LETTER DOES NOT ELIMINATE THE NEED FOR STATE, LOCAL, OR OTHER AUTHORIZATIONS, SUCH AS THOSE OF THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES OR DANE COUNTY.

This letter contains an approved jurisdictional determination for your subject site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination, you must submit a completed RFA form to the Mississippi Valley Division Office at the following address:

James B. Wiseman, Jr.  
Administrative Appeals Review Officer  
Mississippi Valley Division  
P.O. Box 80 (1400 Walnut Street)  
Vicksburg, MS 39181-0080  
(601) 634-5820  
(601) 634-5816 (fax)

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 C.F.R. part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by November 19, 2007.

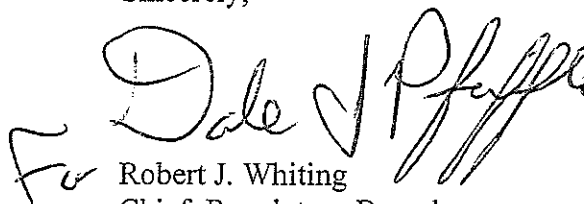
It is not necessary to submit an RFA form to the division office if you do not object to the determination in this letter

***IF YOU DID NOT MAKE A JURISDICTIONAL DETERMINATION, CONTINUE HERE  
AND DO NOT INCLUDE THE APPEALS AND BASIS FOR JD FORMS.***

This review did **not** include a jurisdictional determination as to whether the waterbody/wetlands that were identified in this report would come under the Corps of Engineers regulatory authority pursuant to Section 404 of the Clean Water Act.

Thank you for your cooperation with the U.S. Army Corps of Engineers regulatory program. If you have any questions, contact Stacy Marshall in our Waukesha office at (262) 547-3064. In any correspondence or inquiries, please refer to the Regulatory number shown above.

Sincerely,

  
For Robert J. Whiting  
Chief, Regulatory Branch

Copy furnished: WDNR – Cami Peterson

Neil Molstad, NRC, Inc., 119 South Main St., Cottage Grove, WI 55016



# NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: Mr. Andrew Stein	File Number: 2007-02956-SLM	Date: September 19, 2007
Attached is:		See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)	A
	PROFFERED PERMIT (Standard Permit or Letter of Permission)	B
	PERMIT DENIAL	C
X	APPROVED JURISDICTIONAL DETERMINATION	D
	PRELIMINARY JURISDICTIONAL DETERMINATION	E

**SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.**

**A. INITIAL PROFFERED PERMIT:** You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approve jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B. PROFFERED PERMIT:** You may accept or appeal the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C. PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D. APPROVED JURISDICTIONAL DETERMINATION:** You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E. PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION**

If you have questions regarding this decision and/or the appeal process you may contact:

Ms. Stacy Marshall  
U. S. Army Corps of Engineers, Regulatory Branch  
1617 E. Racine Ave., Suite 101  
Waukesha, WI 53186

Telephone (262) 547-3064

If you only have questions regarding the appeal process you may also contact:

James B. Wiseman, Jr.  
Administrative Appeals Review Officer  
Mississippi Valley Division  
P.O. Box 80 (1400 Walnut Street)  
Vicksburg, MS 39181-0080  
(601) 634-5820  
(601) 634-5816 (fax)

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent.	Date:	Telephone number:
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**APPENDIX D**  
**DELINEATION ASSURANCE LETTER**





## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
Lloyd L. Eagan, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY Access via relay - 711

December 4, 2008

Jeff Kraemer  
Natural Resources Consulting, Inc.  
PO BOX 128  
Cottage Grove, WI 53527-0128

Dear Mr. Kraemer:

As the active field season draws to a close, we send our appreciation for your work as an assured wetland delineator. We hope you've found some benefits of assurance for your company and your clients.

Over the last year we have learned even more about the challenges you face in the field as well as identified some issues that still need improvement to ensure a successful, well-rounded program. We'd like to take this opportunity to inform you of some program changes that will be implemented beginning the winter of 2008-2009.

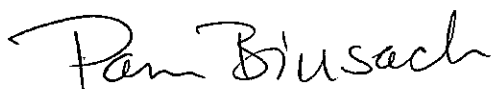
Historically, we've given the option to either send delineation reports to Ms. Roberta Lund in our Central Office either as they've been completed through the year or all at once by the end of the calendar year. We've also relied upon reviews of three randomly selected wetland delineation reports to evaluate continued performance. Most importantly, despite the talent of those applying we've been disappointed at the inability to add to our assured wetland delineator list. Based on what we've learned to date, the program will be seeing the following changes:

1. All delineation reports conducted during the 2008 calendar year must be submitted by January 15, 2009. Please send reports to Ms. Roberta Lund, DNR-WT/4, P.O. Box 7921, Madison, WI 53707-7921.
2. Starting in 2009, all delineation reports must be submitted to the above address as they are completed during the year.
3. One to two delineations will be randomly selected during the growing season as the reports are received in order to document consistency between the site conditions at the field boundary and those described in the delineation report.
4. Documentation of continuing education must be provided no later than December 31 of any calendar year. Relevant continuing education courses include those related to wetland identification, plants, hydrology, soils, or ecology. Please also remember that the advanced wetland delineation course should be retaken every 5 years – which is particularly important considering the new supplements to the 1987 COE Wetlands Delineation Manual.
5. The delineation courses provided through UW-LaCrosse will soon include a specific component to both teach and/or reinforce the importance of slide reviews for atypical and problem areas. Because of the significant information these slide reviews provide, the failure to perform, describe or document these reviews have resulted in enough errors to prevent otherwise qualified delineators from being accepted into the assurance program.
6. DNR staff will be receiving specific training in the area of slide reviews to ensure proper review of wetland delineations, as well.

If you have questions or would like further information, please contact me at 608-275-3282 or [pamela.biersach@wisconsin.gov](mailto:pamela.biersach@wisconsin.gov) or Pat Trochlell at 608-267-2453 or [patricia.trochlell@wisconsin.gov](mailto:patricia.trochlell@wisconsin.gov).

Thank you for your participation in the wetland delineation professional assurance system.

Sincerely,

A handwritten signature in cursive script that reads "Pam Biersach". The signature is written in black ink and is positioned above the printed name and title.

Pam Biersach  
Aquatic Habitat Protection Coordinator  
Southcentral Region