



# COUNTY OF KENOSHA

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## Department of Planning & Development

### KENOSHA COUNTY REZONING PROCEDURES

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1. Contact the Department of Public Works & Development Services and check with staff to determine if your proposed zoning change meets the requirements for the Kenosha County General Zoning and Shoreland/Floodplain Zoning Ordinance and the Kenosha County Subdivision Control Ordinance. Note: If the proposed rezoning is part of a proposed land division see the Certified Survey Map Information and Procedures.

2. Contact the Department of Public Works & Development Services and schedule a pre-conference meeting, which is required for all rezoning requests.

Meeting Date: \_\_\_\_\_

3. Contact your local Town to determine if your rezoning petition requires preliminary approval.
4. Complete and submit the Kenosha County Rezoning Application by the filing deadline (see Planning, Development & Extension Education Committee Schedule handout).
6. Submit a copy of the date-stamped application to your local township for placement on the agenda of the Town Planning Commission and Town Board, which recommends action to the County Planning, Development & Extension Education Committee. Keep a copy for your records.
7. Attend the Town Planning Commission and the Town Board meetings. **NOTE:** You must attend or the Town will not be able to act on your request.

Town Planning Commission meeting date (tentative): \_\_\_\_\_

Town Board meeting date (tentative): \_\_\_\_\_

8. Attend the Planning, Development & Extension Education Committee public hearing. **NOTE:** You must attend or the Planning, Development & Extension Education Committee will not be able to act on your request. At this meeting you will be asked to brief the Committee on your request.

Kenosha County Planning, Development & Extension Education Committee meeting date: \_\_\_\_\_  
(tentative)

9. Planning, Development & Extension Education Committee recommends either approval and adopts a resolution or denial and transmits recommendation to the Kenosha County Board of Supervisors. No action is required from the applicant at this time.

If approved, County Board of Supervisors either approves or denies the amendment.

If denied by the Kenosha County Board of Supervisors you have thirty (30) days to file an appeal with circuit court if you so choose.

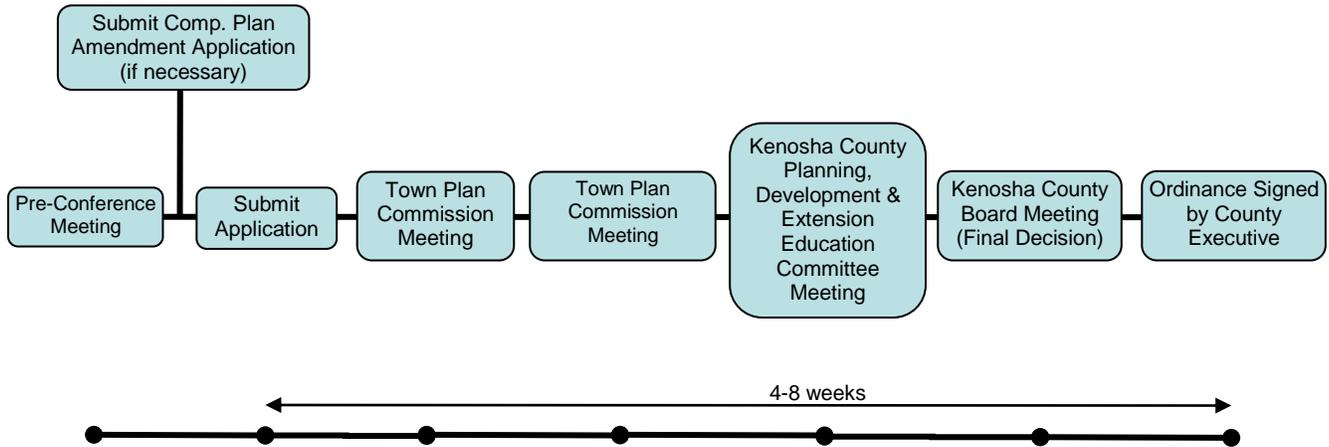
10. After the County Executive has signed the official ordinance document amending the Kenosha County Zoning Map, you will be notified of your approval in writing. Upon notification of approval, you may proceed with recording any necessary deeds.

**IMPORTANT TELEPHONE NUMBERS**

Kenosha County Center  
 Department of Public Works & Development Services  
 19600 - 75<sup>th</sup> Street, Suite 185-3  
 Bristol, Wisconsin 53104-9772

Division of Planning & Development (including Sanitation & Land Conservation).....	<b>857-1895</b>
Facsimile #.....	857-1920
Public Works Division of Highways .....	857-1870
Administration Building	
Division of Land Information.....	653-2622
Brighton, Town of .....	878-2218
Paris, Town of .....	859-3006
Randall, Town of.....	877-2165
Salem, Town of .....	843-2313
Utility District.....	862-2371
Somers Town of .....	859-2822
Wheatland, Town of.....	537-4340
Wisconsin Department of Natural Resources - Sturtevant Office .....	884-2300
Wisconsin Department of Transportation - Waukesha Office .....	548-8722

**Rezoning Procedure Timeline**



For Reference Purposes



# COUNTY OF KENOSHA

## Department of Planning and Development

RECEIVED

REZONING APPLICATION

JUN - 1 2017

JUN - 1 2017

(a) Property Owner's Name:

Arthur A. Naber & Paul J. Naber

Kenosha County  
Deputy County Clerk

Kenosha County  
Planning and Development

Print Name: Arthur A. Naber

Signature:

Mailing Address: 3405 S. Brown Lakes Drive, #3

City: Burlington

State: WI

Zip: 53105

Phone Number: 262-206-9910

E-mail (optional):

Note: Unless the property owner's signature can be obtained in the above space, a letter of agent status **signed** by the legal property owner **must** be submitted if you are a tenant, leaseholder, or authorized agent representing the legal owner, allowing you to act on their behalf.

(b) Agent's Name (if applicable):

Print Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Business Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: \_\_\_\_\_ E-mail (optional): \_\_\_\_\_

(c) Tax key number(s) of property to be rezoned:

95-4-119-024-0300

Property Address of property to be rezoned:

33202 73rd Street

(d) Proposed use (a statement of the type, extent, area, etc. of any development project):

To subdivide the appx. 29.3-acre property into (1) 10.07-acre lot, (1) 40,784 sq. ft. lot, (1) 40,024 sq. ft. lot and (1) 16.16-acre lot.

**REZONING APPLICATION**

**(e)** Check the box next to any and all of the **existing** zoning district classifications present on the subject property:

A-1 Agricultural Preservation District	TCO Town Center Overlay District
A-2 General Agricultural District	B-1 Neighborhood Business District
A-3 Agricultural Related Manufacturing, Warehousing and Marketing District	B-2 Community Business District
A-4 Agricultural Land Holding District	B-3 Highway Business District
AE-1 Agricultural Equestrian Cluster Single-Family District	B-4 Planned Business District
R-1 Rural Residential District	B-5 Wholesale Trade and Warehousing District
R-2 Suburban Single-Family Residential District	BP-1 Business Park District
R-3 Urban Single-Family Residential District	B-94 Interstate Highway 94 Special Use Business District
R-4 Urban Single-Family Residential District	M-1 Limited Manufacturing District
R-5 Urban Single-Family Residential District	M-2 Heavy Manufacturing District
R-6 Urban Single-Family Residential District	M-3 Mineral Extraction District
R-7 Suburban Two-Family and Three-Family Residential District	M-4 Sanitary Landfill and Hazardous Waste Disposal District
R-8 Urban Two-Family Residential District	I-1 Institutional District
R-9 Multiple-Family Residential District	PR-1 Park-Recreational District
R-10 Multiple-Family Residential District	C-1 Lowland Resource Conservancy District
R-11 Multiple-Family Residential District	C-2 Upland Resource Conservancy District
R-12 Mobile Home/Manufactured Home Park-Subdivision District	FPO Floodplain Overlay District
HO Historical Overlay District	FWO Camp Lake/Center Lake Floodway Overlay District
PUD Planned Unit Development Overlay District	FFO Camp Lake/Center Lake Floodplain Fringe Overlay District
AO Airport Overlay District	
RC Rural Cluster Development Overlay District	

**(f)** Check the box next to any and all of the **proposed** zoning district classifications proposed for the subject property:

A-1 Agricultural Preservation District	TCO Town Center Overlay District
A-2 General Agricultural District	B-1 Neighborhood Business District
A-3 Agricultural Related Manufacturing, Warehousing and Marketing District	B-2 Community Business District
A-4 Agricultural Land Holding District	B-3 Highway Business District
AE-1 Agricultural Equestrian Cluster Single-Family District	B-4 Planned Business District
R-1 Rural Residential District	B-5 Wholesale Trade and Warehousing District
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PUD Planned Unit Development Overlay District	FFO Camp Lake/Center Lake Floodplain Fringe Overlay District
AO Airport Overlay District	
RC Rural Cluster Development Overlay District	

**REZONING APPLICATION**

**(g)** Your request must be consistent with the existing planned land use category as shown on Map 65 of the adopted "[Multi-Jurisdictional Comprehensive Plan for Kenosha County: 2035](#)".

The existing planned land use category for the subject property is:

Farmland Protection	Governmental and Institutional
General Agricultural and Open Land	Park and Recreational
Rural-Density Residential	Street and Highway Right-of-Way
Agricultural and Rural Density Residential	Other Transportation, Communication, and Utility
Suburban-Density Residential	Extractive
Medium-Density Residential	Landfill
High-Density Residential	Primary Environmental Corridor
Mixed Use	Secondary Environmental Corridor
Commercial	Isolated Natural Resource Area
Office/Professional Services	Other Conservancy Land to be Preserved
Industrial	Nonfarmed Wetland
Business/Industrial Park	Surface Water

**(h)** Attach a plot plan or survey plat of property to be rezoned (showing location, dimensions, zoning of adjacent properties, existing uses and buildings of adjacent properties, floodways and floodplains)—drawn to scale.

**(i)** The Kenosha County Department of Planning and Development may ask for additional information.

(1) Is this property located within the shoreland area?

Shoreland area is defined as the following: All land, water and air located within the following distances from the ordinary high water mark of navigable waters as defined in section 144.26(2)(d) of the Wisconsin Statutes: 1,000 feet from a lake, pond or flowage; 300 feet from a river or stream or to the landward side of the floodplain, whichever distance is greater. If the navigable water is a glacial pothole lake, the distance shall be measured from the high water mark thereof.

Yes No

(2) Is this property located within the City of Kenosha Airport affected area as defined in s. 62.23 (6) (am) 1. b.?

Yes No

**(j)** The name of the County Supervisor of the district wherein the property is located ([District Map](#)):

Supervisory District Number: \_\_\_\_\_ County Board Supervisor: \_\_\_\_\_

**(k)** The fee specified in Section 12.05-8 of this ordinance.

Request for Rezoning Petition .....\$750.00

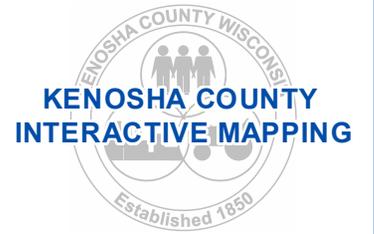
(For other fees see the [Fee Schedule](#))

**Note: Agricultural Use Conversion Charge**

The use value assessment system values agricultural land based on the income that would be generated from its rental for agricultural use rather than its fair market value. When a person converts agricultural land to a non-agricultural use (e.g. residential or commercial development), that person may owe a conversion charge. To obtain more information about the use value law or conversion charge, contact the Wisconsin Department of Revenue's Equalization Section at 608-266-2149 or visit <http://www.revenue.wi.gov/faqs/slf/useassmt.html>.

Note that the act of rezoning property from an agricultural zoning district to a non-agricultural zoning district does not necessarily trigger the agricultural use conversion charge. It is when the use of the property changes from agricultural that the conversion charge is assessed.

# Subject Property



### Legend

- Street Centerlines
- Right-of-Ways
- Water Features
- Parcels
- Certified Survey Maps
- Condominiums
- Municipal Boundaries
- Special Flood Hazard Area**
  - A; AE; AO
  - Zoning (Unincorporated Areas)

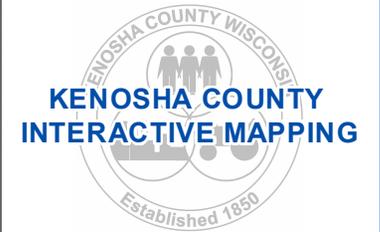


1 inch = 300 feet

**DISCLAIMER** This map is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, data and information located in various state, county and municipal offices and other sources affecting the area shown and is to be used for reference purposes only. Kenosha County is not responsible for any inaccuracies herein contained. If discrepancies are found, please contact Kenosha County.

Date Printed: 6/1/2017

# Current Zoning Classifications



## Legend

- Street Centerlines
- Right-of-Ways
- Water Features
- Parcels
- Certified Survey Maps
- Condominiums
- Municipal Boundaries
- Special Flood Hazard Area**
- A; AE; AO
- Zoning (Unincorporated Areas)

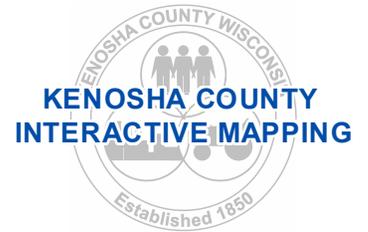


1 inch = 300 feet

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Date Printed: 6/1/2017

# Proposed Zoning Classifications



## Legend

- Street Centerlines
- Right-of-Ways
- Water Features
- Parcels
- Certified Survey Maps
- Condominiums
- Municipal Boundaries
- Special Flood Hazard Area**
  - A; AE; AO
  - Zoning (Unincorporated Areas)



1 inch = 300 feet

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Date Printed: 6/1/2017

# WETLAND DELINEATION REPORT

**Naber Property  
33202 73<sup>rd</sup> Street  
Wheatland, Wisconsin**

**September 2015**

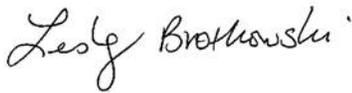
TRC Project No: 243428

Prepared For:

Lynch & Associates  
5482 S Westridge Dr.  
New Berlin, WI 53151

Prepared By

TRC Environmental Corporation  
150 N. Patrick Blvd, Suite 180  
Brookfield, WI 53045



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**Reviewer: Lesley Brotkowski**  
Senior Ecologist



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**Document Preparer: Kara Kikkert**  
Scientist



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## 1.0 INTRODUCTION

On behalf of Lynch & Associates, TRC Environmental Corporation (TRC) conducted a partial site wetland delineation within two designated Study Areas (A and B) at the Naber property (Appendix A, Figure 1). Study Area A was approximately 6.50 acres. Study Area B was approximately 1.25 acres. The Naber property is located in Section 2 Township 1N Range 19E in the town of Wheatland, Kenosha County, Wisconsin.

The purpose of this wetland delineation was to determine the current location and extent of wetlands located within the designated Study Areas for the purpose of land development. Our study is presented here in terms of methodology, results, and conclusions.

The wetland delineation field investigation was conducted by TRC scientists Amanda Larsen and Kara Kikkert on September 9, 2015.

### 1.1 Statement of Qualifications

TRC has extensive experience managing and conducting wetland delineations and assessments across the United States. TRC's biologists and ecologists have been trained to properly and consistently apply the methods set forth in the 1987 Corps of Engineers Wetland Delineation Manual and applicable regional supplements. They have direct experience identifying and documenting indicators of hydrophytic vegetation, wetland hydrology, and hydric soil and are experienced in dealing with naturally problematic and disturbed conditions.

TRC has conducted many hundreds of wetland delineations and assessments for our clients. TRC's large natural resources staff have the capability to coordinate wetland survey teams to meet fast-track project schedules and satisfy the challenges of complex or controversial projects.

**Ms. Amanda Larsen**, is an Environmental Scientist with TRC who specializes in conducting biological surveys, water quality monitoring, wetland delineations, habitat restoration, and invasive species control. She received her B.S. in Conservation and Environmental Science from the University of Wisconsin- Milwaukee in 2010. Ms. Larsen has several years of experience delineating wetlands and has served as a lead wetland delineator on multiple proposed pipeline projects, including Federal Energy Regulatory Commission (FERC) -regulated projects. Her delineation and biological habitat assessment work has been conducted in Illinois, Indiana, Louisiana, Michigan, New York, North Dakota, Ohio, West Virginia, and Wisconsin.

**Ms. Kara Kikkert** is an Environmental Technician with TRC. She earned her bachelor's degree in Conservation and Environmental Science from the University of Wisconsin- Milwaukee in 2014. The focus of her academic studies was natural resource management planning and geography. She has delineated hundreds of wetlands on FERC permitted energy projects in Illinois and Ohio and has delineation experience throughout the state of Wisconsin. She has attended wetland delineation technical training workshops provided by UW-La Crosse, including Critical Methods in Wetland Delineation and Basic Wetland Delineation training and UW-Milwaukee field station's Plant Identification class in 2015.

## **1.2 Agency Regulatory Authority**

Under Section 404 of the Clean Water Act (CWA), wetlands and waterways that are considered Waters of the U.S. are subject to regulation. The jurisdictional regulatory authority under Section 404 of the Clean Water Act (CWA) lies with the U.S. Army Corps of Engineers (USACE). Under Chapters 30 and 281 Wisconsin State Statutes, and Wisconsin Administrative Code NR 103, 151, 299, 350, and 353 wetlands are subject to regulation. The jurisdictional regulatory authority under the Wisconsin State Statutes and Administrative Code lies with the Wisconsin Department of Natural Resources. Municipalities, townships and counties may also have local zoning authority over certain areas or types of wetlands and waterways. The determination that a wetland or waterway is subject to regulatory jurisdiction is made independently by the agencies.

## **2.0 METHODS**

This wetland delineation was conducted in accordance with the guidelines of the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0, 2012 and in general accordance with Wisconsin Department of Natural Resources guidelines (WI Department of Administration, WI Coastal Management Program, 1995). National Wetland Indicator status and taxonomic nomenclature is referenced from The National Wetland Plant List (Lichvar 2014). National Wetland Indicator status is based on the Northcentral and Northeast Region, LRR K sub-region.

This report has been prepared in accordance with the guidelines set forth in the “Guidance for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources” document issued March 4, 2015.

### **2.1 Off-Site Review**

Prior to conducting fieldwork, TRC scientists Amanda Larsen and Kara Kikkert reviewed maps including the United States Geological Survey (USGS) 7.5’ Quadrangle maps, Wisconsin Wetland Inventory Map, Natural Resource Conservation Service (NRCS) Soil Survey Map, and aerial photographs. These sources were used to identify areas likely to contain wetlands.

Precipitation data from approximately 90 days prior to the field investigation were obtained from a weather station near the Study Areas. These data were compared with 30-year average precipitation data obtained from a NRCS WETS Table for the County where the Study Area was located to determine if antecedent hydrologic conditions at the time of the site visit were normal, wetter, or drier than the normal range.

### **2.2 On-Site Field Investigation**

Areas having wetland indicators within the Study Areas were evaluated in the field by TRC wetland scientists Amanda Larsen and Kara Kikkert on September 9, 2015. Sample points were

located in areas exhibiting wetland and upland characteristics to document the presence and/or absence of wetlands and to provide support for the delineated wetland boundaries. At each sample point, data were collected to document the vegetation and hydrophytic vegetation indicators, soil profiles and hydric soil indicators, and wetland hydrology indicators.

Plant species were identified at each sample point and their wetland indicator status; obligate wetland (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU), or upland (UPL); was determined by referencing The National Wetland Plant List (Lichvar 2014). Soil pits were dug to a minimum of 24 inches, where there was no restrictive layer, and soil profiles were evaluated for presence of hydric soil indicators. Soil color was determined using a Munsell soil color chart. The sample point plots and soil pits were evaluated for presence of wetland hydrology indicators.

The wetland boundaries were delineated and staked using wire pin flags and when needed flagging tape. Wetland boundaries were generally determined by distinct to subtle differences in the abundance of hydrophytic vegetation and non-hydrophytic vegetation, presence versus absence of hydric soil indicators, and presence versus absence of wetland hydrology indicators.

### 3.0 RESULTS

#### 3.1 Off-Site Review

The two-Foot Contour Map (Appendix A, Figure 2) showed elevations ranging from 752 to 784 feet above sea level. Wetland hydrology appeared to be sustained by surface water. Based on this map, it appears that surface water would flow to the central portion of Area A and the northwest portion of Area B.

According to the NRCS Soil Survey map (Appendix A, Figure 3) seven mapped soil units are located within the Study Areas. The soils mapped within the Study Areas are listed on Table 1 below.

**Table 1 – Mapped Soils**

Map Unit Symbol	Taxonomic Classification	Hydric Classification
CeC2	Casco loam	Not hydric
CeD2	Casco loam	Not hydric
CrD2	Casco-Rodman complex	Not hydric
FoB	Fox loam	Partially hydric
FsB	Fox silt loam	Not hydric
Ht	Houghton much	All hydric
RaA	Radford silt loam	Not hydric

The Wisconsin Wetland Inventory (WWI) map (Appendix A, Figure 4) depicted three wetlands within the Study Areas. The types of wetland shown on the WWI map are listed in Table 2 below.

**Table 2 – Mapped WWI Wetland Types**

Map Unit Symbol	Description
WOHx	Open water; Subclass unknown; Standing water, Palustrine; Excavated.
T3/WOH	Forested, broad-leaved deciduous wetland/Open Water Class; Subclass unknown; Standing water, Palustrine.
T1/S3K	Forested; Deciduous/Scrub-shrub; Broad-leaved deciduous; Wet soil, Palustrine.

A review of aerial imagery from 2000, 2005, 2008, 2013, and 2015 (Appendix A, Figures 5 - 9) shows Study Area A is comprised of a mosaic of open grassy areas, shrubby areas, scattered mature trees, and open water. Study Area B is comprised of hardwood deciduous forest habitat. There did not appear to be any land use changes during this period.

The SEWRPC Environmental Corridor Map (Appendix A, Figure 10) depicts the majority of both Study Areas (A and B) as Primary Environmental Corridor with Surface Water inside Area A.

The SEWRPC Land Use Map (Appendix A, Figure 11) depicts Agricultural and Other Open Lands, Surface Water, Wetlands, and Woodlands as the existing land use types.

Prior to conducting the field visit, antecedent precipitation data were analyzed. Data were obtained from a nearby weather station (Paddock Lake USC00476380) and compared to data from a nearby WETS station (Kenosha, WI4174). The Paddock Lake station is located less than 8.5 miles east of the Study Areas. The most recent rainfall event prior to the site visit was 0.25 inches, which occurred on August 30, 2015. Precipitation for the 14 days prior to the site visit was 1.19 inches. The precipitation data for the 90 day period prior to the field visit (Appendix D, Table 1, WETS table 2) were entered into a WETS analysis worksheet (Appendix D, Table 2) to weight the information from each preceding month to analyze hydrologic conditions. Based on this analysis, the antecedent hydrologic conditions were considered to be within a normal range, suggesting that climatic/hydrologic conditions were normal for this time of year.

## **3.2 On-Site Field Investigation**

### **3.2.1 Site Description**

Study Area A is located in the eastern portion of the Naber property. This 6.5 acre Study Area was comprised mostly of wetland communities including fresh (wet) meadow and hardwood swamp communities with areas of open water. Upland forest, upland meadow, and turf grass areas surround the delineated wetland within the Study Area.

Study Area B is located in the northwestern portion of the Naber Property. This 1.25 acre area is comprised of upland hardwood forest habitat with a predominantly black cherry canopy and hickory and box elder understory.

### 3.2.2 Uplands

Upland plant communities observed in the Study Areas included deciduous forest (Study Area B) dominated by *Prunus serotina* (black cherry), and upland meadows dominated by *Solidago canadensis* (Canada goldenrod) (Study Area A). Sample points DP-1, DP-3, DP-5, and DP-7 were located in uplands.

### 3.2.3 Wetlands

One wetland (WL-1) was delineated. The delineated wetland boundary and sample points are shown on the Wetland Delineation Map (Exhibit A) in Appendix C. Photographs were taken at sample points and other notable locations (Appendix D). Data were collected and recorded on Wetland Determination Data Forms at seven sample points to document wetland and upland locations (Appendix E).

#### Wetland 1

Wetland 1 (WL-1) was approximately 2.72 acres within Study Area A and consisted of two distinct plant communities; fresh (wet) meadow and hardwood swamp habitats surrounded by shallow open water. WL-1 extends beyond Study Area A to the east.

Three wetland sample points (DP-2, DP-4, and DP-6) were taken within WL-1. Dominant vegetation at DP-2 consisted of *Elymus virginicus* (Virginia wild rye) and *Phalaris arundinacea* (reed canary grass) in the herb stratum. Dominant vegetation at DP-4 consisted of *Acer saccharinum* (silver maple) in the tree stratum and *Phalaris arundinacea* and *Bidens tripartita* (three-lobed baggarticks) in the herb stratum. Dominant vegetation at DP-6 included *Acer saccharinum* in the tree stratum, *Lonicera tatarica* (tatarian honeysuckle) in the shrub stratum, and *Bidens tripartita*, *Laportea canadensis* (Canadian wood-nettle), and *Leersia oryzoides* (rice cutgrass) in the herb stratum. Hydrology generally appeared to be sustained by two surface water and a high groundwater table. Indicators of wetland hydrology at the sample points included High Water Table (A2), Saturation (A3), Water Marks (B1), Oxidized Rhizospheres along Living Roots (C3), Dry Season Water Table (C2), Geomorphic Position (D2), and a positive FAC-neutral Test (D5). Soils observed at the sample points displayed strong indicators of hydric soil including: Depleted Below Dark Surface (A11), Loamy Gleyed Matrix (F2), Redox Dark Surface (F6), Depleted Matrix (F3), and Redox Depressions (F8) soil indicators.

The boundary of WL-1 was based on subtle to distinct topographic breaks, the boundary between hydrophytic and non-hydrophytic vegetation, the presence and absence of wetland hydrology indicators, and the boundary between hydric and non-hydric soil.

## **4.0 CONCLUSIONS**

The wetland delineation completed by TRC resulted in one delineated wetland (WL-1) totaling 2.72 acres within the 7.75 acre Study Areas. No other aquatic resources were observed within the Study Areas.

The results of this field study are based on site conditions at the time of the field study, which was conducted in accordance with current regulatory policy and methods. Unknown and future conditions that affect observations of field indicators, and change in interpretation of regulatory policy or methods, may modify future findings.

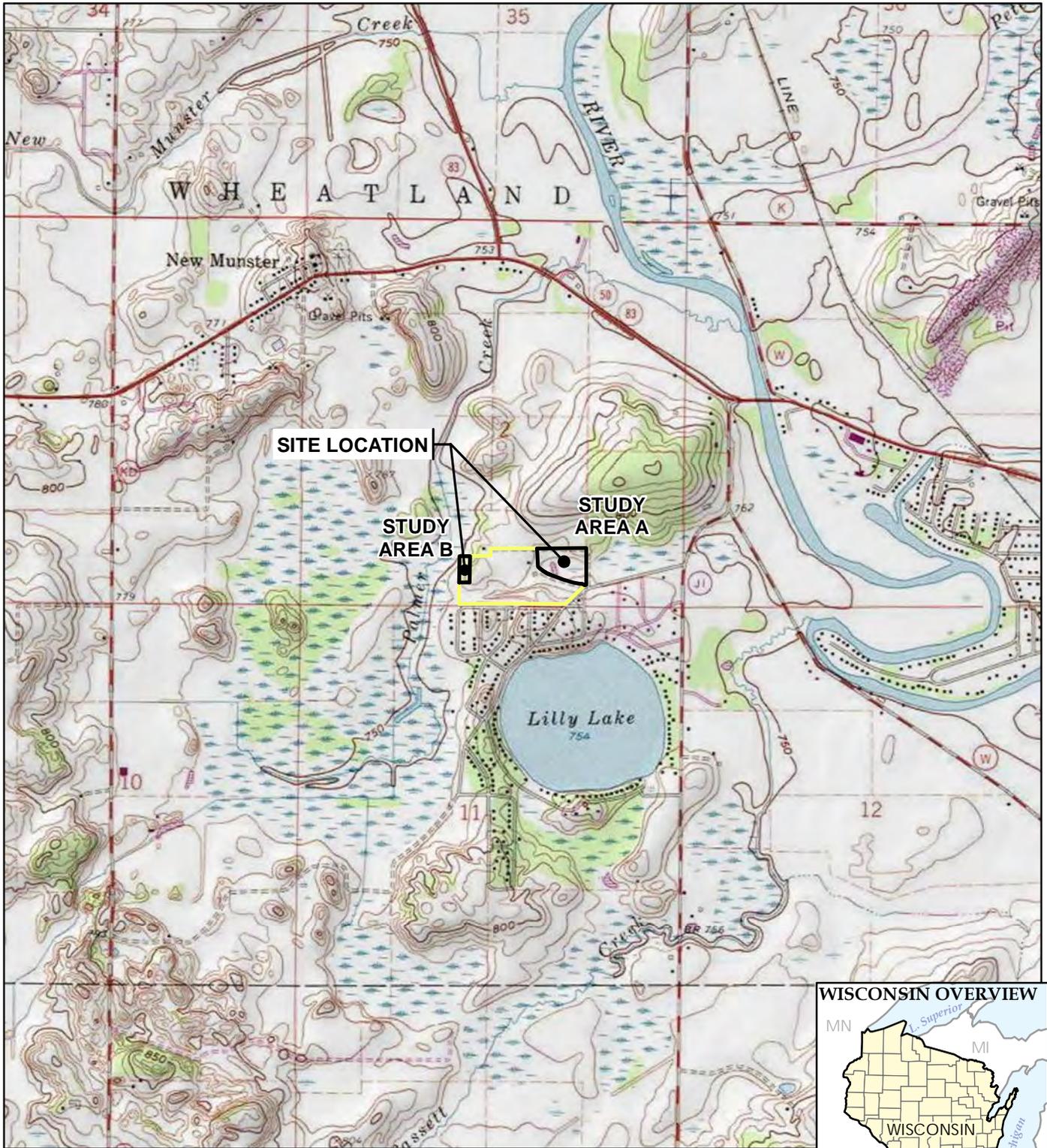
The ultimate authority to determine the location of the wetland boundary and jurisdictional authority over the wetlands and waterways identified in this report resides with the USACE and WDNR. Decisions made by staff of these regulatory agencies may result in modifications to the location of the wetland and/or waterway boundaries shown in this report.

TRC recommends that coordination with the USACE, the WDNR, and local governments be conducted prior to implementing any activity that is in near proximity or is within wetlands or waterways to determine if a permit would be needed to perform the activity.

## 5.0 REFERENCES

- Charts, Munsell Soil Color. "Munsell color." *Macbeth Division of Kollmorgen Instruments Corporation, New Windsor, NY 12553* (1994).
- Eggers, Steve D. and Donald M. Reed. 1997. *Wetland Plants and Plant Communities of Minnesota and Wisconsin*. 2<sup>nd</sup> Ed. U.S. Army Corps of Engineers, St. Paul District.
- Environmental Laboratory. 1987. *Corps of Engineers Wetlands Delineation Manual*. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Lichvar, R.W., M. Butterwick, N.C. Melvin, and W.N. Kirchner. 2014. The National Wetland Plant List: 2014 Update of Wetland Ratings. *Phytoneuron* 2014-41: 1-42.
- Midwestern Regional Climate Center cli-MATE Database  
<http://mrcc.isws.illinois.edu/CLIMATE/>
- Southeastern Wisconsin Regional Planning Commission (SEWRPC) Southeastern Wisconsin Regional Land Information: Regional Map Server  
<http://maps.sewrpc.org/regionallandinfo/regionalmapping/RegionalMaps/viewer.htm>
- Swink, Floyd, and Gerould Wilhelm. 1994. "Plants of the Chicago region." Indianapolis: Indiana Academy of Science.
- U.S. Army Corps of Engineers. 2011. *Regional Supplement to the Corps of Engineers Wetland Delineation Training Manual: Northcentral and Northeast Region (Version 2.0)*, ed. J.S. Wakeley, R. W. Lichvar, C.V. Noble, and J.F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Army Corps of Engineers. St. Paul District Regulatory. Special Public Notice. Issued: March 4, 2015. Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources.
- USDA Natural Resources Conservation Service Web Soil Survey  
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- USDA NRCS Climate Analysis by County Web Site (WETS). (Web Address: <http://www.wcc.nrcs.usda.gov/climate/wetlands.html> )

**APPENDIX A:  
FIGURES**



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.



150 North Patrick Blvd.  
Suite 180  
Brookfield, WI 53045  
Phone: 262.879.1212

TRC - GIS

PROJECT:

**NABER PROPERTY WETLAND DELINEATION  
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

TITLE:

**SITE LOCATION MAP**

DRAWN BY:

SUEMNICHT R

CHECKED BY:

BROTKOWSKI L

APPROVED BY:

LONDRE R

DATE:

SEPTEMBER 2015

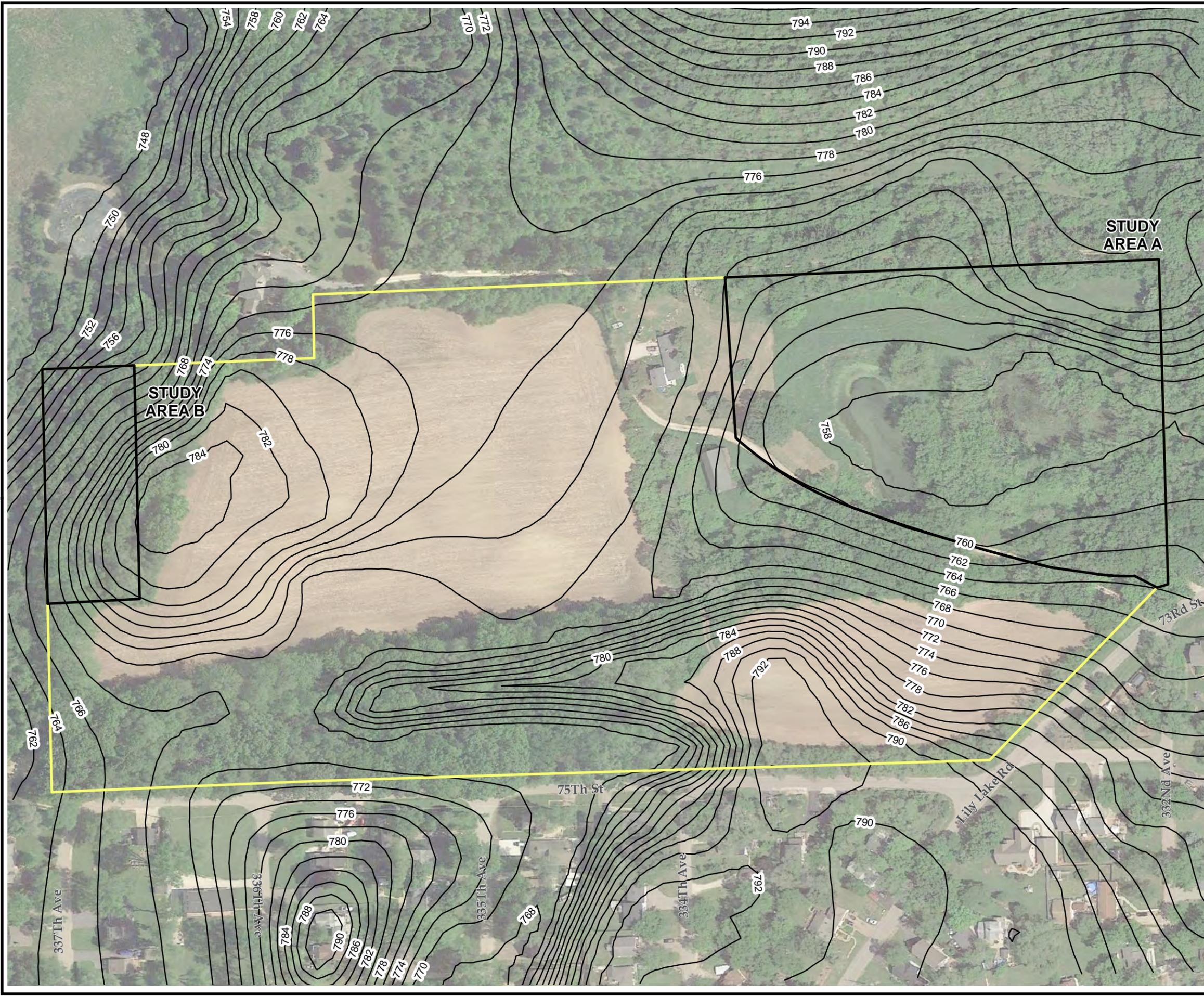
PROJ. NO.:

243428

FILE:

243428-001slm.mxd

**FIGURE 1**



**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY
- 2' CONTOUR INTERVAL

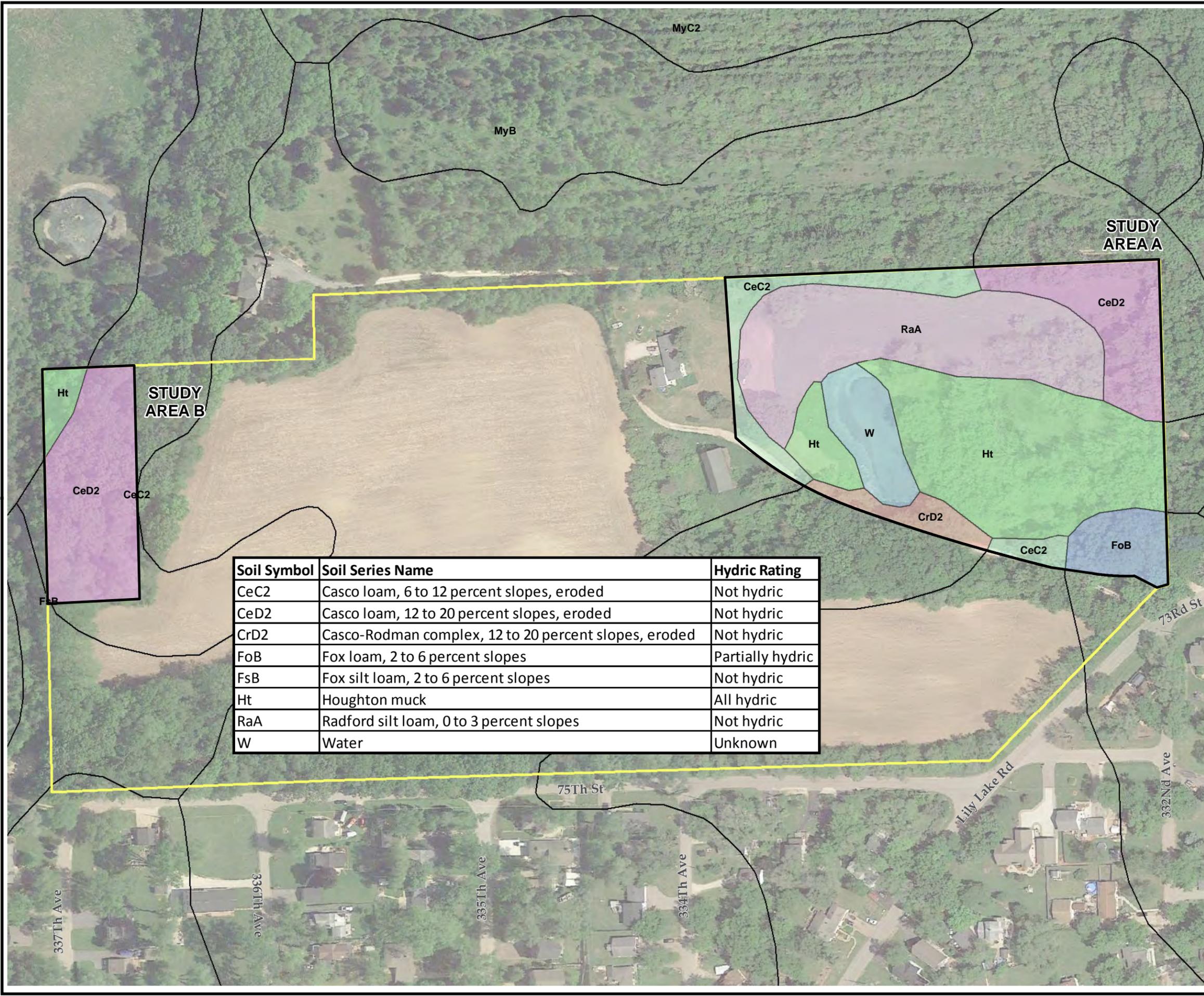
- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.
  2. CONTOURS DERIVED FROM USGS, NATIONAL ELEVATION DATASET, 1/3<sup>RD</sup> ARCSECOND RESOLUTION.

N

0 150 300  
Feet

1" = 150'  
1:1,800

<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>CONTOUR MAP</b>	
<b>DRAWN BY:</b> SUEMNICHT R	<b>PROJ NO.:</b> 243428
<b>CHECKED BY:</b> BROTKOWSKI L	
<b>APPROVED BY:</b> LONDRE R	<b>FIGURE 2</b>
<b>DATE:</b> SEPTEMBER 2015	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
<b>FILE NO.:</b> 243428-002.mxd	



Soil Symbol	Soil Series Name	Hydric Rating
CeC2	Casco loam, 6 to 12 percent slopes, eroded	Not hydric
CeD2	Casco loam, 12 to 20 percent slopes, eroded	Not hydric
CrD2	Casco-Rodman complex, 12 to 20 percent slopes, eroded	Not hydric
FoB	Fox loam, 2 to 6 percent slopes	Partially hydric
FsB	Fox silt loam, 2 to 6 percent slopes	Not hydric
Ht	Houghton muck	All hydric
RaA	Radford silt loam, 0 to 3 percent slopes	Not hydric
W	Water	Unknown

**LEGEND**

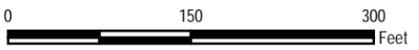
- STUDY AREAS
- PROPERTY BOUNDARY

**SOIL CLASSIFICATION**

- CASCO LOAM, 6 TO 12 PERCENT SLOPES, ERODED
- CASCO LOAM, 12 TO 20 PERCENT SLOPES, ERODED
- CASCO-RODMAN COMPLEX, 12 TO 20 PERCENT SLOPES, ERODED
- FOX LOAM, 2 TO 6 PERCENT SLOPES
- FOX SILT LOAM, 2 TO 6 PERCENT SLOPES
- HOUGHTON MUCK
- RADFORD SILT LOAM, 0 TO 3 PERCENT SLOPES
- WATER

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.
  2. SOILS DATA FROM USDS/NRCS SSURGO DATABASE.

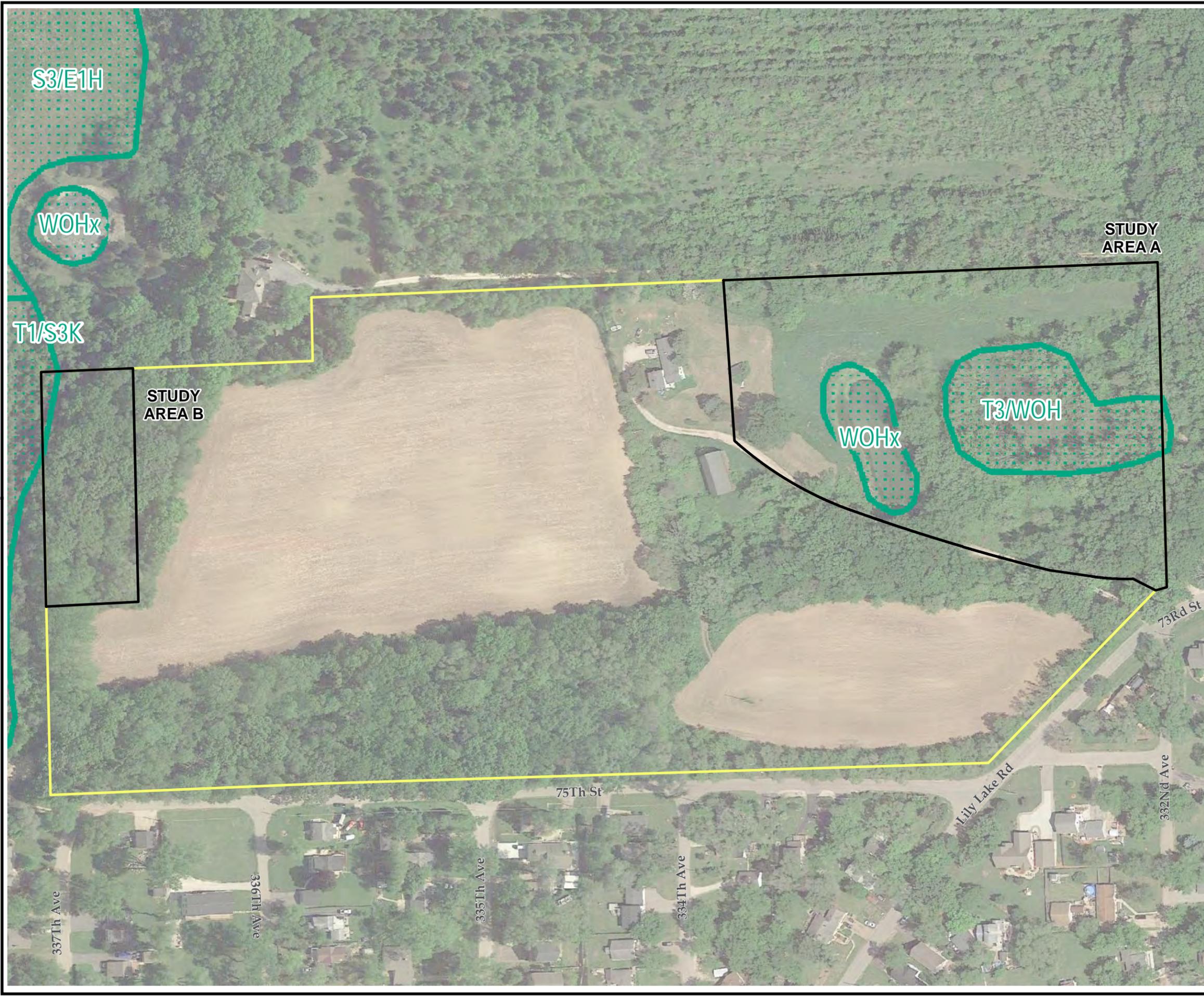




1" = 150'  
1:1,800

<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>NRCS SOILS MAP</b>	
<b>DRAWN BY:</b> SUENNICHT R	<b>PROJ NO.:</b> 243428
<b>CHECKED BY:</b> BROTKOWSKI L	
<b>APPROVED BY:</b> LONDRE R	<b>FIGURE 3</b>
<b>DATE:</b> SEPTEMBER 2015	
	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
<b>FILE NO.:</b>	243428-003.mxd

TRC - GIS  
 Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)  
 Map Rotation: 0  
 Plot Date: 9/28/2015, 10:28:24 AM by RSUEMNICHT -- LAYOUT: ANS1 B(11"x17")  
 Path: E:\Wetlands\General\Naber\Property\2015\_243428\243428-004.mxd



**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY
- WDNR WWI WETLANDS

**NOTES**

1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.
2. WDNR WWI WETLANDS ACQUIRED FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

0 150 300  
 Feet  
 1" = 150'  
 1:1,800

PROJECT:		<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
TITLE:		<b>DNR WWI MAP</b>	
DRAWN BY:	SUEMNICHT R	PROJ NO.:	243428
CHECKED BY:	BROTKOWSKI L	<b>FIGURE 4</b>	
APPROVED BY:	LONDRE R		
DATE:	SEPTEMBER 2015		

TRC

150 North Patrick Blvd., Suite 180  
 Brookfield, WI 53045  
 Phone: 262.879.1212  
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FILE NO.: 243428-004.mxd

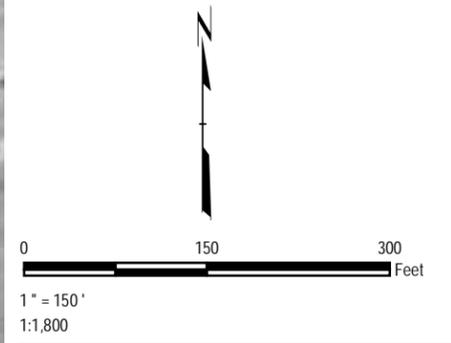


**LEGEND**

STUDY AREAS

PROPERTY BOUNDARY

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, APRIL 2000 .



PROJECT:		<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
TITLE:		<b>2000 AERIAL IMAGE</b>	
DRAWN BY:	SUEMNICHT R	PROJ NO.:	243428
CHECKED BY:	BROTKOWSKI L	<b>FIGURE 5</b>	
APPROVED BY:	LONDRE R		
DATE:	SEPTEMBER 2015		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:		243428-005.mxd	

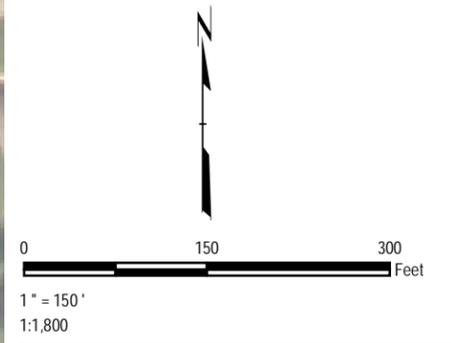


**LEGEND**

STUDY AREAS

PROPERTY BOUNDARY

- NOTES**
1. BASE MAP IMAGERY FROM NATIONAL AGRICULTURE INVENTORY PROGRAM (NAIP), 2005.



PROJECT:		<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
TITLE:		<b>2005 AERIAL IMAGE</b>	
DRAWN BY:	SUEMNICHT R	PROJ NO.:	243428
CHECKED BY:	BROTKOWSKI L	<b>FIGURE 6</b>	
APPROVED BY:	LONDRE R		
DATE:	SEPTEMBER 2015		
		150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:		243428-006.mxd	

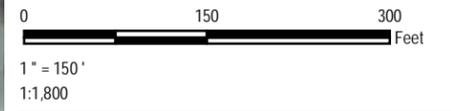


**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY

**NOTES**

1. BASE MAP IMAGERY FROM NATIONAL AGRICULTURE INVENTORY PROGRAM (NAIP), 2008 .



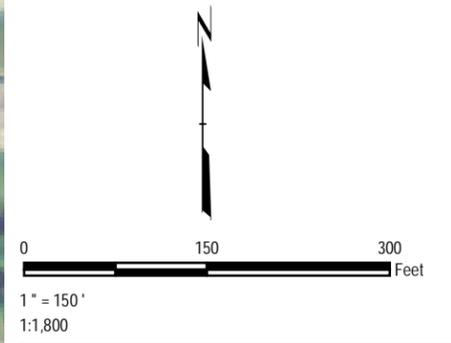
<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>2008 AERIAL IMAGE</b>	
<b>DRAWN BY:</b> SUEMNICHT R	<b>PROJ NO.:</b> 243428
<b>CHECKED BY:</b> BROTKOWSKI L	<b>FIGURE 7</b>
<b>APPROVED BY:</b> LONDRE R	
<b>DATE:</b> SEPTEMBER 2015	
<span style="float: right; font-size: small;">150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com</span>	
<b>FILE NO.:</b> 243428-007.mxd	



**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY

- NOTES**
- BASE MAP IMAGERY FROM NATIONAL AGRICULTURE INVENTORY PROGRAM (NAIP), 20 13.



<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>2013 AERIAL IMAGE</b>	
<b>DRAWN BY:</b> SUEMNICHT R	<b>PROJ NO.:</b> 243428
<b>CHECKED BY:</b> BROTKOWSKI L	<b>FIGURE 8</b>
<b>APPROVED BY:</b> LONDRE R	
<b>DATE:</b> SEPTEMBER 2015	
<span style="float: right; font-size: small;">150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com</span>	
<b>FILE NO.:</b> 243428-008.mxd	



**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY

**NOTES**

- BASE MAP IMAGERY FROM GOOGLE EARTH PRO AND PARTNERS, JUNE 2015.

0 150 300  
Feet

1" = 150'  
1:1,800

PROJECT:  
**NABER PROPERTY WETLAND DELINEATION  
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

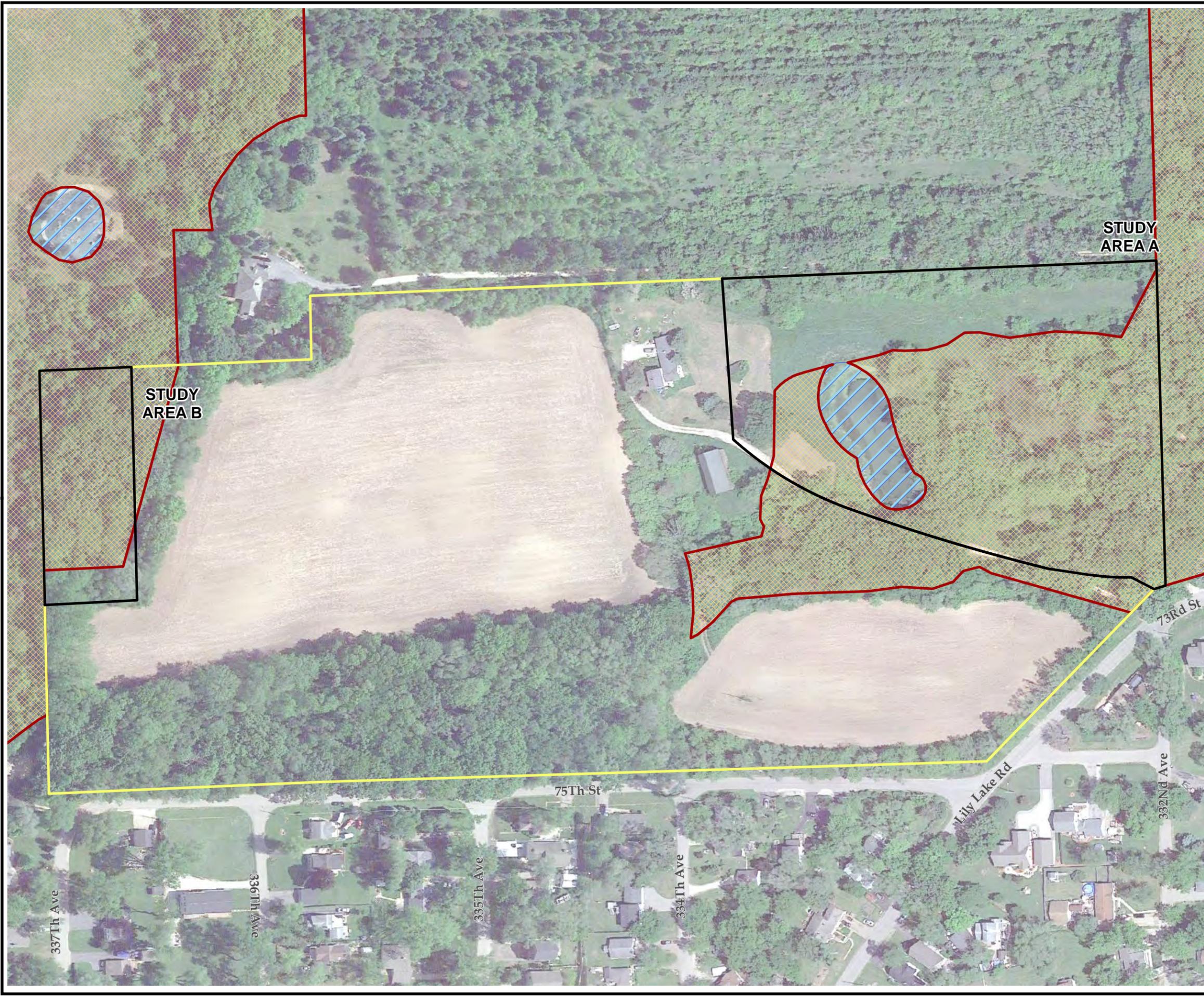
TITLE:  
**2015 AERIAL IMAGE**

DRAWN BY:	SUEMNICHT R	PROJ NO.:	243428
CHECKED BY:	BROTKOWSKI L	<b>FIGURE 9</b>	
APPROVED BY:	LONDRE R		
DATE:	SEPTEMBER 2015		

**TRC**

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Phone: 262.879.1212  
www.trcsolutions.com

FILE NO.: 243428-009.mxd



**LEGEND**

-  STUDY AREAS
-  PROPERTY BOUNDARY
-  PRIMARY ENVIRONMENTAL CORRIDOR
-  SURFACE WATER INSIDE PEC

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.
  2. ENVIRONMENTAL CORRIDOR INFORMATION FROM SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC).

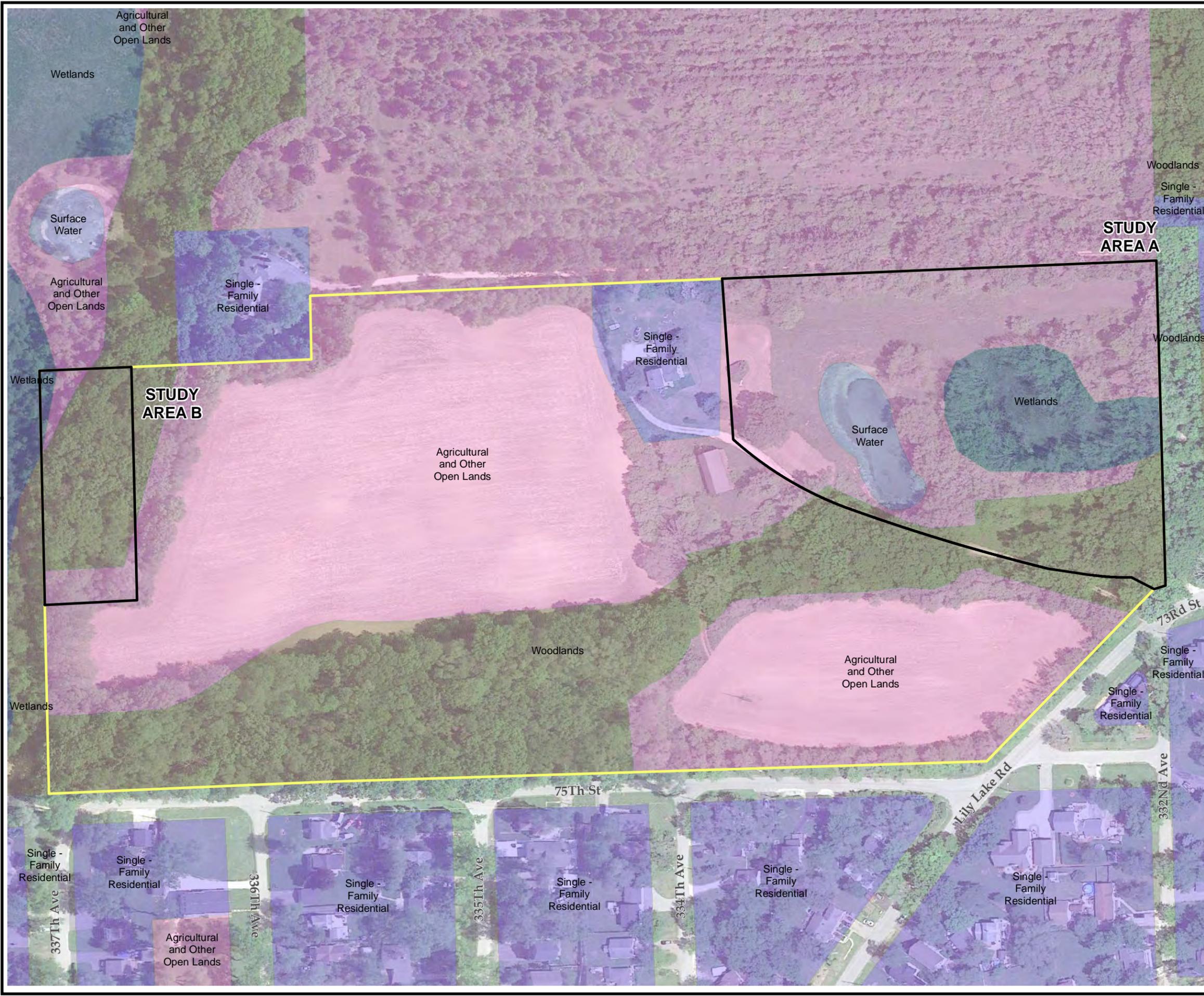
N



0      150      300  
Feet

1" = 150'  
1:1,800

<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>SEWRPC ENVIRONMENTAL CORRIDOR MAP</b>	
DRAWN BY: SUENICHT R	PROJ NO.: 243428
CHECKED BY: BROTKOWSKI L	<b>FIGURE 10</b>
APPROVED BY: LONDRE R	
DATE: SEPTEMBER 2015	
	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:	243428-010.mxd



**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY
- AGRICULTURAL AND OTHER OPEN LANDS
- SINGLE - FAMILY RESIDENTIAL
- SURFACE WATER
- WETLANDS
- WOODLANDS

- NOTES**
1. BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.
  2. LAND USE INFORMATION FROM SOUTHEAST WISCONSIN REGIONAL PLANNING COMMISSION (SEWRPC).

N

0      150      300  
Feet

1" = 150'  
1:1,800

<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>SEWRPC LAND USE MAP</b>	
DRAWN BY: SUEMNICHT R	PROJ NO.: 243428
CHECKED BY: BROTKOWSKI L	<b>FIGURE 11</b>
APPROVED BY: LONDRE R	
DATE: SEPTEMBER 2015	
<b>TRC</b>	
150 North Patrick Blvd., Suite 180 Brookfield, WI 53045 Phone: 262.879.1212 www.trcsolutions.com	
FILE NO.:	243428-011.mxd



**LEGEND**

-  STUDY AREAS
-  PROPERTY BOUNDARY
-  UPLAND SAMPLE LOCATION
-  WETLAND SAMPLE LOCATION
-  TRC DELINEATED WETLAND

**NOTES**

- BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

N



0      150      300  
Feet

1" = 150'  
1:1,800

<b>PROJECT:</b>	
<b>NABER PROPERTY WETLAND DELINEATION 33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN</b>	
<b>TITLE:</b>	
<b>WETLAND DELINEATION MAP</b>	
DRAWN BY: SUENICHT R	PROJ NO.: 243428
CHECKED BY: BROTKOWSKI L	<b>EXHIBIT A</b>
APPROVED BY: LONDRE R	
DATE: SEPTEMBER 2015	
	
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FILE NO.: 243428-012.mxd	

**APPENDIX B:  
ANTECEDENT PRECIPITATION DATA / WETS ANALYSIS**

<b>Table 1: Antecedent Precipitation Data</b>					
June 10, 2015 - September 7, 2015					
<b>3rd Month Prior</b>		<b>2nd Month Prior</b>		<b>1st Month Prior</b>	
<b>Date</b>	<b>PPT</b>	<b>Date</b>	<b>PPT</b>	<b>Date</b>	<b>PPT</b>
6/10/2015	0	7/10/2015	0	8/9/2015	0
6/11/2015	0	7/11/2015	0	8/10/2015	0
6/12/2015	0.92	7/12/2015	0.06	8/11/2015	0.03
6/13/2015	0.09	7/13/2015	0.47	8/12/2015	0
6/14/2015	0.72	7/14/2015	0.03	8/13/2015	0
6/15/2015	0.32	7/15/2015	0	8/14/2015	0
6/16/2015	1.13	7/16/2015	0	8/15/2015	0.3
6/17/2015	0	7/17/2015	0.8	8/16/2015	0.06
6/18/2015	0	7/18/2015	0.01	8/17/2015	0
6/19/2015	0	7/19/2015	1.21	8/18/2015	0.95
6/20/2015	0.04	7/20/2015	0	8/19/2015	0.31
6/21/2015	0.04	7/21/2015	0	8/20/2015	0
6/22/2015	0	7/22/2015	0	8/21/2015	0
6/23/2015	0.4	7/23/2015	0	8/22/2015	0
6/24/2015	0	7/24/2015	0	8/23/2015	0
6/25/2015	0.1	7/25/2015	0	8/24/2015	0
6/26/2015	0	7/26/2015	0	8/25/2015	0
6/27/2015	0	7/27/2015	0	8/26/2015	0
6/28/2015	0	7/28/2015	0	8/27/2015	0
6/29/2015	0.13	7/29/2015	0	8/28/2015	0
6/30/2015	0.05	7/30/2015	0	8/29/2015	0.94
7/1/2015	0	7/31/2015	0	8/30/2015	0.25
7/2/2015	0	8/1/2015	0	8/31/2015	0
7/3/2015	0	8/2/2015	0	9/1/2015	0
7/4/2015	0	8/3/2015	0.74	9/2/2015	0
7/5/2015	0	8/4/2015	0	9/3/2015	0
7/6/2015	0	8/5/2015	0	9/4/2015	0
7/7/2015	0.45	8/6/2015	0	9/5/2015	0
7/8/2015	0	8/7/2015	0	9/6/2015	0
7/9/2015	0	8/8/2015	0.1	9/7/2015	0
<b>Total =</b>	<b>4.39</b>	<b>Total =</b>	<b>3.42</b>	<b>Total =</b>	<b>2.84</b>

\*No data available for 9/8/15 at time of report preparation.



**Table 2: WETS Analysis**

Project Site: Naber Property  
 Period of interest: June-August 2015  
 County: Kenosha

**Long-term rainfall records (from WETS table)**

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	AUG	2.43	4.19	5.04
2nd month prior:	JUL	2.43	3.68	4.41
3rd month prior:	JUN	2.28	3.59	4.33
		Sum =	<b>11.46</b>	

**Site determination**

Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
2.84	Normal	2	3	6
3.42	Normal	2	2	4
4.39	Wet	3	1	3
Sum =	<b>10.65</b>		Sum*** =	<b>13</b>

\*Normal precipitation with 30% to 70% probability of occurrence

Determination:           Wet  
                                   Dry  
                                   x   Normal

\*\*Condition value:

\*\*\*If sum is:

Dry = 1                                   6 to 9   then period has been drier than normal  
 Normal = 2                               10 to 14 then period has been normal  
 Wet = 3                                   15 to 18 then period has been wetter than normal

Precipitation data source: Paddock Lake Weather station USC00476380

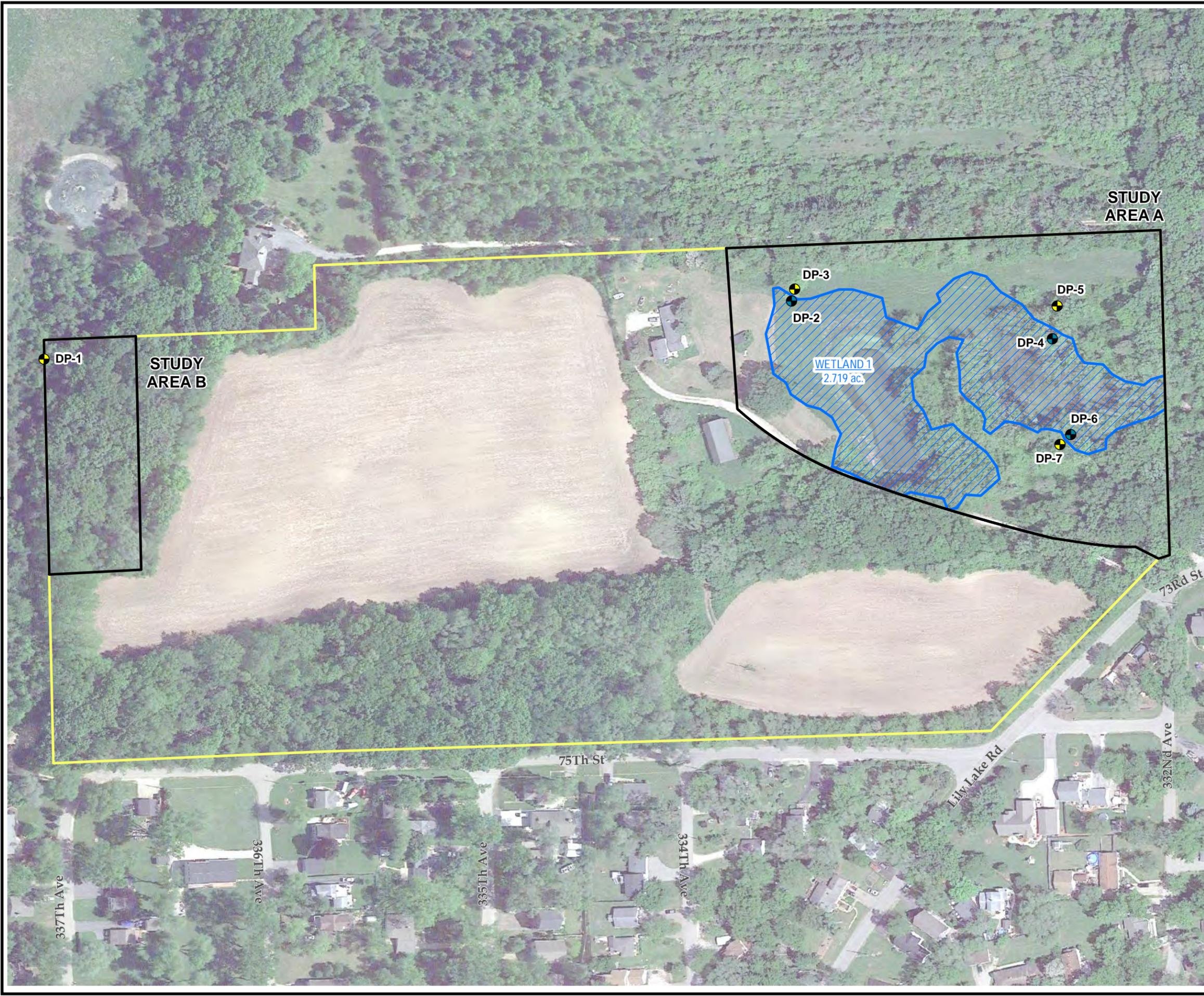
WETS Station: Kenosha, WI4174

Reference:

Donald E. Woodward, ed. 1997. *Hydrology Tools for Wetland Determination*, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.



**APPENDIX C:  
WETLAND DELINEATION MAP**



**LEGEND**

- STUDY AREAS
- PROPERTY BOUNDARY
- UPLAND SAMPLE LOCATION
- WETLAND SAMPLE LOCATION
- TRC DELINEATED WETLAND

**NOTES**

- BASE MAP IMAGERY FROM GOOGLE EARTH PRO & PARTNERS, JUNE 2015.

0 150 300  
Feet

1" = 150'  
1:1,800

PROJECT:  
**NABER PROPERTY WETLAND DELINEATION  
33202 73RD ST., TOWN OF WHEATLAND, WISCONSIN**

TITLE:  
**WETLAND DELINEATION MAP**

DRAWN BY: SUEMNICHT R	PROJ NO.: 243428
CHECKED BY: BROTKOWSKI L	<b>EXHIBIT A</b>
APPROVED BY: LONDRE R	
DATE: SEPTEMBER 2015	

TRC

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Phone: 262.879.1212  
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FILE NO.: 243428-012.mxd

**APPENDIX D:  
SITE PHOTOGRAPHS**

**Photo 1:**

View of WL-1 from  
the northwest  
wetland boundary.

Facing south



**Photo 2:**

View of WL-1 from  
the eastern wetland  
boundary.

Facing west



**Photo 3:**

View of WL-1 from  
the northern wetland  
boundary.

Facing southeast



**Photo 4:**

View of northern  
wetland boundary.

Facing east



**Photo 5:**

Upland sample point  
DP-1 in Study Area  
B.

Facing west



**Photo 6:**

Wetland sample  
point DP-2. Study  
Area A, WL-1.

Facing west



**Photo 7:**

Transect 1, DP-2  
(wetland) and DP-3  
(upland) within Study  
Area A.

Facing southwest



**Photo 8:**

Wetland sample  
point DP-4. Study  
Area A, WL-1.

Facing west



**Photo 9:**

Upland sample point  
DP-5. Study Area A.

Facing southwest



**Photo 10:**

Wetland sample point  
DP-6. Study Area A, WL-1.

Facing north-  
northeast



**Photo 11:**

Upland sample point  
DP-7. Study Area A.  
Wetland boundary  
flag also seen here.

Facing north-  
northeast



**APPENDIX E:  
WETLAND DETERMINATION DATA FORMS**

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-1 Upland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): convex Slope: 4.0 % / 2.3 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Houghton muck(Ht), all hydric NWI classification: T3/S3K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Explain alternative procedures here or in a separate report.) Based on the absence of all three criteria, it is determined that this point is located in an upland.	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)

<b>Field Observations:</b> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 The criterion for wetland hydrology is not met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-1 Upland

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30' r</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>7</u> (B)  Percent of dominant Species That Are OBL, FACW, or FAC: <u>42.9%</u> (A/B)
1. <i>Prunus serotina</i>	40	<input checked="" type="checkbox"/>	FACU	
2. <i>Quercus rubra</i>	15	<input checked="" type="checkbox"/>	FACU	
3. <i>Malus coronaria</i>	5	<input type="checkbox"/>	UPL	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15' r</u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>100</u> x 3 = <u>300</u> FACU species <u>80</u> x 4 = <u>320</u> UPL species <u>15</u> x 5 = <u>75</u> Column Totals: <u>195</u> (A) <u>695</u> (B)  Prevalence Index = B/A = <u>3.564</u>
60 = Total Cover				
1. <i>Acer negundo</i>	30	<input checked="" type="checkbox"/>	FAC	
2. <i>Carya cordiformis</i>	30	<input checked="" type="checkbox"/>	FAC	
3. <i>Rhamnus cathartica</i>	15	<input type="checkbox"/>	FAC	
4. <i>Lonicera tatarica</i>	5	<input type="checkbox"/>	FACU	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
<b>Herb Stratum</b> (Plot size: <u>5' r</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
80 = Total Cover				
1. <i>Rhamnus cathartica</i>	15	<input checked="" type="checkbox"/>	FAC	
2. <i>Lonicera periclymenum</i>	10	<input checked="" type="checkbox"/>	UPL	
3. <i>Prunus serotina</i>	10	<input checked="" type="checkbox"/>	FACU	
4. <i>Acer saccharum</i>	5	<input type="checkbox"/>	FACU	
5. <i>Arisaema triphyllum</i>	5	<input type="checkbox"/>	FAC	
6. <i>Circaea canadensis</i>	5	<input type="checkbox"/>	FACU	
7. <i>Geum canadense</i>	5	<input type="checkbox"/>	FAC	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
<b>Woody Vine Stratum</b> (Plot size: <u>30' r</u> )				<b>Definitions of Vegetation Strata:</b> Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.
55 = Total Cover				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
<b>Woody Vine Stratum</b> (Plot size: <u>30' r</u> )				Hydrophytic Vegetation Present?    Yes <input type="radio"/> No <input checked="" type="radio"/>
0 = Total Cover				
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is not met. This data point is located in a disturbed deciduous forest.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-2 Wetland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): concave Slope: 3.0 % / 1.7 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Radford silt loam (RaA), partially hydric NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: (Explain alternative procedures here or in a separate report.) Based on the presence of all three parameters, it is determined that this point is located in a wetland. Wetland ID: WL-1	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No       Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No       Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes  No       Depth (inches): \_\_\_\_\_

**Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 The criterion for wetland hydrology is met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-2 Wetland

Tree Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: 15' r )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
5. _____	0	<input type="checkbox"/>	_____	
6. _____	0	<input type="checkbox"/>	_____	
7. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				
Herb Stratum (Plot size: 5' r )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <i>Elymus virginicus</i>	50	<input checked="" type="checkbox"/>	FACW	
2. <i>Phalaris arundinacea</i>	50	<input checked="" type="checkbox"/>	FACW	
3. <i>Agrostis gigantea</i>	15	<input type="checkbox"/>	FACW	
4. <i>Dactylis glomerata</i>	10	<input type="checkbox"/>	FACU	
5. <i>Elymus repens</i>	5	<input type="checkbox"/>	FACU	
6. <i>Rumex crispus</i>	5	<input type="checkbox"/>	FAC	
7. _____	0	<input type="checkbox"/>	_____	
8. _____	0	<input type="checkbox"/>	_____	
9. _____	0	<input type="checkbox"/>	_____	
10. _____	0	<input type="checkbox"/>	_____	
11. _____	0	<input type="checkbox"/>	_____	
12. _____	0	<input type="checkbox"/>	_____	
135 = Total Cover				
Woody Vine Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	0	<input type="checkbox"/>	_____	
2. _____	0	<input type="checkbox"/>	_____	
3. _____	0	<input type="checkbox"/>	_____	
4. _____	0	<input type="checkbox"/>	_____	
0 = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of: 0 Multiply by: \_\_\_\_\_

OBL species 0 x 1 = 0

FACW species 115 x 2 = 230

FAC species 5 x 3 = 15

FACU species 15 x 4 = 60

UPL species 0 x 5 = 0

Column Totals: 135 (A) 305 (B)

Prevalence Index = B/A = 2.259

**Hydrophytic Vegetation Indicators:**

Rapid Test for Hydrophytic Vegetation

Dominance Test is > 50%

Prevalence Index is ≤3.0<sup>1</sup>

Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vine - All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is met. This data point is located in a fresh (wet) meadow plant community.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

**Soil**

Sampling Point: **DP-2 Wetland**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix			Redox Features				Texture	Remarks
	Color (moist)		%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-5	10YR	3/1	60	10YR	5/8	10	C	M/PL	Silty Clay Loam
	10YR	4/2	30						Second matrix color
5-19	10YR	4/2	60	10YR	5/8	20	C	M	Silty Clay Loam
	10YR	2/1	20						Second matrix color
19-24	10YR	2/1	100						Silty Clay Loam

<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup>Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) LRR K, L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> Stratified Layers (A5)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Muck Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	
<input type="checkbox"/> Sandy Redox (S5)	
<input type="checkbox"/> Stripped Matrix (S6)	
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)	

**Indicators for Problematic Hydric Soils : <sup>3</sup>**

<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Dark Surface (S7) (LRR K, L, M)
<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Red Parent Material (F21)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: \_\_\_\_\_

Depth (inches): \_\_\_\_\_

**Hydric Soil Present? Yes  No**

Remarks:

The criterion for hydric soil is met.

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-3 Upland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex Slope: 2.0 % / 1.1 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Casco loam (CeC2), not hydric NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
<b>Remarks: (Explain alternative procedures here or in a separate report.)</b> Based on the absence of all three parameters, it is determined that this point is located in an upland.	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
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**Field Observations:**

Surface Water Present? Yes  No       Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No       Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes  No       Depth (inches): \_\_\_\_\_      **Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 The criterion for wetland hydrology is not met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-3 Upland

Tree Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. <i>Acer negundo</i>	20	<input checked="" type="checkbox"/>	FAC			Number of Dominant Species That are OBL, FACW, or FAC:	<u>1</u> (A)
2. <i>Prunus serotina</i>	20	<input checked="" type="checkbox"/>	FACU	Total Number of Dominant Species Across All Strata:	<u>3</u> (B)		
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>33.3%</u> (A/B)		
4. _____	0	<input type="checkbox"/>	_____	<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>5</u> x 2 = <u>10</u> FAC species <u>25</u> x 3 = <u>75</u> FACU species <u>135</u> x 4 = <u>540</u> UPL species <u>30</u> x 5 = <u>150</u> Column Totals: <u>195</u> (A) <u>775</u> (B) Prevalence Index = B/A = <u>3.974</u>			
5. _____	0	<input type="checkbox"/>	_____				
6. _____	0	<input type="checkbox"/>	_____				
7. _____	0	<input type="checkbox"/>	_____				
<b>Sapling/Shrub Stratum (Plot size: 15' r )</b>							
1. _____	0	<input type="checkbox"/>	_____				
2. _____	0	<input type="checkbox"/>	_____				
3. _____	0	<input type="checkbox"/>	_____				
4. _____	0	<input type="checkbox"/>	_____				
5. _____	0	<input type="checkbox"/>	_____				
6. _____	0	<input type="checkbox"/>	_____				
7. _____	0	<input type="checkbox"/>	_____				
<b>Herb Stratum (Plot size: 5' r )</b>							
1. <i>Dactylis glomerata</i>	90	<input checked="" type="checkbox"/>	FACU	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
2. <i>Torilis japonica</i>	30	<input type="checkbox"/>	UPL				
3. <i>Cirsium arvense</i>	20	<input type="checkbox"/>	FACU				
4. <i>Phalaris arundinacea</i>	5	<input type="checkbox"/>	FACW				
5. <i>Sonchus oleraceus</i>	5	<input type="checkbox"/>	FACU				
6. <i>Vitis riparia</i>	5	<input type="checkbox"/>	FAC				
7. _____	0	<input type="checkbox"/>	_____				
8. _____	0	<input type="checkbox"/>	_____				
9. _____	0	<input type="checkbox"/>	_____				
10. _____	0	<input type="checkbox"/>	_____				
11. _____	0	<input type="checkbox"/>	_____				
12. _____	0	<input type="checkbox"/>	_____				
<b>Woody Vine Stratum (Plot size: 30' r )</b>				<b>Definitions of Vegetation Strata:</b> Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height.			
1. _____	0	<input type="checkbox"/>	_____				
2. _____	0	<input type="checkbox"/>	_____				
3. _____	0	<input type="checkbox"/>	_____				
4. _____	0	<input type="checkbox"/>	_____				
<b>Hydrophytic Vegetation Present?</b>				Yes <input type="radio"/> No <input checked="" type="radio"/>			

**Remarks: (Include photo numbers here or on a separate sheet.)**  
 The criterion for hydrophytic vegetation is not met. This data point is located in an upland near the boundary between a deciduous wooded area and a fresh wet meadow plant community. It is dominated by perennial upland grass.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

**Soil**

Sampling Point: **DP-3 Upland**

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0-18	10YR	3/2	70				Silt Loam	
	10YR	4/3	30					
18-24	10YR	2/1	80				Silt Loam	
	10YR	4/3	20					

<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains    <sup>2</sup>Location: PL=Pore Lining. M=Matrix

**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<b>Indicators for Problematic Hydric Soils :</b> <sup>3</sup>
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) LRR K, L)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Sandy Muck Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		
<input type="checkbox"/> Sandy Redox (S5)		
<input type="checkbox"/> Stripped Matrix (S6)		
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**  
 Type: \_\_\_\_\_  
 Depth (inches): \_\_\_\_\_

**Hydric Soil Present?**    Yes     No

Remarks:  
 The criterion for hydric soil is not met.

**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-4 Wetland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave Slope: 3.0 % / 1.7 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Houghton muck(Ht), all hydric NWI classification: T3/WHO

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: (Explain alternative procedures here or in a separate report.) Based on the presence of all three criteria, it is determined that this point is located in a wetland. Wetland ID: WL-1	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input checked="" type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
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**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_  
 Water Table Present? Yes  No  Depth (inches): 8  
 Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): 0      **Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 Surface water pond is located 30 ft from this data point. The criterion for wetland hydrology is met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-4 Wetland

Tree Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer saccharinum</i>	50	<input checked="" type="checkbox"/>	FACW	<b>Dominance Test worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)	
2.	0	<input type="checkbox"/>			
3.	0	<input type="checkbox"/>			
4.	0	<input type="checkbox"/>			
5.	0	<input type="checkbox"/>			
6.	0	<input type="checkbox"/>			
7.	0	<input type="checkbox"/>			
<b>Sapling/Shrub Stratum (Plot size: 15' r )</b>				<b>Prevalence Index worksheet:</b> Total % Cover of:      Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>105</u> x 2 = <u>210</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>105</u> (A) <u>210</u> (B)  Prevalence Index = B/A = <u>2.000</u>	
50 = Total Cover					
1.	0	<input type="checkbox"/>			
2.	0	<input type="checkbox"/>			
3.	0	<input type="checkbox"/>			
4.	0	<input type="checkbox"/>			
5.	0	<input type="checkbox"/>			
<b>Herb Stratum (Plot size: 5' r )</b>				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
0 = Total Cover					
1. <i>Phalaris arundinacea</i>	30	<input checked="" type="checkbox"/>	FACW		
2. <i>Bidens tripartita</i>	25	<input checked="" type="checkbox"/>	FACW		
3.	0	<input type="checkbox"/>			
4.	0	<input type="checkbox"/>			
5.	0	<input type="checkbox"/>			
6.	0	<input type="checkbox"/>			
7.	0	<input type="checkbox"/>			
8.	0	<input type="checkbox"/>			
9.	0	<input type="checkbox"/>			
10.	0	<input type="checkbox"/>			
11.	0	<input type="checkbox"/>			
12.	0	<input type="checkbox"/>			
<b>Woody Vine Stratum (Plot size: 30' r )</b>				<b>Definitions of Vegetation Strata:</b>  Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.	
55 = Total Cover					
1.	0	<input type="checkbox"/>			
2.	0	<input type="checkbox"/>			
3.	0	<input type="checkbox"/>			
0 = Total Cover				Hydrophytic Vegetation Present?      Yes <input checked="" type="radio"/> No <input type="radio"/>	

**Remarks: (Include photo numbers here or on a separate sheet.)**

The criterion for hydrophytic vegetation is met. Shallow, open water community with emergent fringe. Herb layer at data point is sparsely vegetated due to saturation of soil. Open water has canopy of surrounding *Acer saccharinum*.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-5 Upland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex Slope: 2.0 % / 1.1 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Casco loam (CeD2), not hydric NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Explain alternative procedures here or in a separate report.) Based on the absence of all three parameters, it is determined that this point is located in an upland.	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of 2 required)
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)

<b>Field Observations:</b> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____	Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 The criterion for wetland hydrology is not met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-5 Upland

Tree Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Juglans nigra</i>	50	<input checked="" type="checkbox"/>	FACU	<b>Dominance Test worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>4</u> (B)  Percent of dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)	
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
<b>Sapling/Shrub Stratum (Plot size: 15' r )</b>	50 = Total Cover			<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>150</u> x 4 = <u>600</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>200</u> (A) <u>770</u> (B)  Prevalence Index = B/A = <u>3.850</u>	
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
<b>Herb Stratum (Plot size: 5' r )</b>	0 = Total Cover			<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is > 50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <i>Poa pratensis</i>	50	<input checked="" type="checkbox"/>	FACU		
2. <i>Dactylis glomerata</i>	25	<input checked="" type="checkbox"/>	FACU		
3. <i>Persicaria virginiana</i>	25	<input checked="" type="checkbox"/>	FAC		
4. <i>Geum canadense</i>	10	<input type="checkbox"/>	FAC		
5. <i>Rosa multiflora</i>	10	<input type="checkbox"/>	FACU		
6. <i>Torilis japonica</i>	10	<input type="checkbox"/>	UPL		
7. <i>Achillea millefolium</i>	5	<input type="checkbox"/>	FACU		
8. <i>Alliaria petiolata</i>	5	<input type="checkbox"/>	FACU		
9. <i>Carya cordiformis</i>	5	<input type="checkbox"/>	FAC		
10. <i>Phleum pratense</i>	5	<input type="checkbox"/>	FACU		
11. _____	0	<input type="checkbox"/>	_____		
12. _____	0	<input type="checkbox"/>	_____		
<b>Woody Vine Stratum (Plot size: 30' r )</b>	150 = Total Cover			<b>Definitions of Vegetation Strata:</b> Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.	
1. _____	0	<input type="checkbox"/>	_____		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
	0 = Total Cover			Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is not met. This data point is located in a hardwood deciduous forest.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-6 Wetland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave Slope: 2.0 % / 1.1 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Houghton muck(Ht), all hydric NWI classification: T3/WHO

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
<b>Remarks: (Explain alternative procedures here or in a separate report.)</b> Based on the presence of all three criteria, it is determined that this point is located in a wetland. Wetland ID: WL-1	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input checked="" type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input checked="" type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-neutral Test (D5)
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<b>Field Observations:</b> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Water Table Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Saturation Present? (includes capillary fringe) Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches): _____ Depth (inches): <u>12</u> Depth (inches): <u>0</u>	<b>Wetland Hydrology Present?</b> Yes <input checked="" type="radio"/> No <input type="radio"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 A surface water pond is located 20 ft from data point. The criterion for wetland hydrology is met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-6 Wetland

Tree Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status		
1. <i>Acer saccharinum</i>	60	<input checked="" type="checkbox"/>	FACW	<b>Dominance Test worksheet:</b> Number of Dominant Species That are OBL, FACW, or FAC: <u>5</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of dominant Species That Are OBL, FACW, or FAC: <u>83.3%</u> (A/B)	
2.	0	<input type="checkbox"/>			
3.	0	<input type="checkbox"/>			
4.	0	<input type="checkbox"/>			
5.	0	<input type="checkbox"/>			
6.	0	<input type="checkbox"/>			
7.	0	<input type="checkbox"/>			
<b>Sapling/Shrub Stratum (Plot size: 15' r )</b>				<b>Prevalence Index worksheet:</b> Total % Cover of: <u>60</u> = Total Cover      Multiply by: OBL species <u>25</u> x 1 = <u>25</u> FACW species <u>125</u> x 2 = <u>250</u> FAC species <u>20</u> x 3 = <u>60</u> FACU species <u>10</u> x 4 = <u>40</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>180</u> (A) <u>375</u> (B)  Prevalence Index = B/A = <u>2.083</u>	
1. <i>Lonicera tatarica</i>	10	<input checked="" type="checkbox"/>	FACU		
2.	0	<input type="checkbox"/>			
3.	0	<input type="checkbox"/>			
4.	0	<input type="checkbox"/>			
5.	0	<input type="checkbox"/>			
6.	0	<input type="checkbox"/>			
<b>Herb Stratum (Plot size: 5' r )</b>				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is > 50% <input checked="" type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <i>Bidens tripartita</i>	25	<input checked="" type="checkbox"/>	FACW		
2. <i>Laportea canadensis</i>	25	<input checked="" type="checkbox"/>	FACW		
3. <i>Leersia oryzoides</i>	25	<input checked="" type="checkbox"/>	OBL		
4. <i>Phalaris arundinacea</i>	15	<input type="checkbox"/>	FACW		
5. <i>Persicaria virginiana</i>	10	<input type="checkbox"/>	FAC		
6.	0	<input type="checkbox"/>			
7.	0	<input type="checkbox"/>			
8.	0	<input type="checkbox"/>			
9.	0	<input type="checkbox"/>			
10.	0	<input type="checkbox"/>			
11.	0	<input type="checkbox"/>			
<b>Woody Vine Stratum (Plot size: 30' r )</b>				<b>Definitions of Vegetation Strata:</b>  Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.	
1. <i>Vitis riparia</i>	10	<input checked="" type="checkbox"/>	FAC		
2.	0	<input type="checkbox"/>			
3.	0	<input type="checkbox"/>			
4.	0	<input type="checkbox"/>			
10 = Total Cover				Hydrophytic Vegetation Present?    Yes <input checked="" type="radio"/> No <input type="radio"/>	

**Remarks: (Include photo numbers here or on a separate sheet.)**  
 The criterion for hydrophytic vegetation is met. Shallow, open water community with emergent fringe. Nearby open water has canopy of surrounding *Acer saccharinum*.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



**WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region**

Project/Site: Naber Property City/County: Wheatland/ Kenosha Sampling Date: 09-Sep-15  
 Applicant/Owner: Lynch & Associates/ Naber State: WI Sampling Point: DP-7 Upland  
 Investigator(s): Amanda Larsen and Kara Kikkert Section, Township, Range: S. 2 T. 1N R. 19E  
 Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex Slope: 2.0 % / 1.1 °  
 Subregion (LRR or MLRA): LRR K Lat.: \_\_\_\_\_ Long.: \_\_\_\_\_ Datum: \_\_\_\_\_  
 Soil Map Unit Name: Casco loam (CrD2), not hydric NWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

**Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc**

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
<b>Remarks: (Explain alternative procedures here or in a separate report.)</b> Based on the absence of all three parameters, it is determined that this point is located in an upland.	

**Hydrology**

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Drift deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	Secondary Indicators (minimum of 2 required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-neutral Test (D5)
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**Field Observations:**

Surface Water Present? Yes  No       Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No       Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes  No       Depth (inches): \_\_\_\_\_      **Wetland Hydrology Present?** Yes  No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  
 Topo Map, Soils Map, WDNR WWI Map, Aerial Imagery, SEWPC environmental corridors and land use maps

Remarks:  
 The criterion for wetland hydrology is not met.

**VEGETATION - Use scientific names of plants**

Sampling Point: DP-7 Upland

Tree Stratum (Plot size: 30' r )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. <i>Juglans nigra</i>	60	<input checked="" type="checkbox"/>	FACU	Number of Dominant Species That are OBL, FACW, or FAC:	<u>2</u> (A)
2. <i>Morus rubra</i>	10	<input type="checkbox"/>	FACU	Total Number of Dominant Species Across All Strata:	<u>6</u> (B)
3. _____	0	<input type="checkbox"/>	_____	Percent of dominant Species That Are OBL, FACW, or FAC:	<u>33.3%</u> (A/B)
4. _____	0	<input type="checkbox"/>	_____		
5. _____	0	<input type="checkbox"/>	_____		
6. _____	0	<input type="checkbox"/>	_____		
7. _____	0	<input type="checkbox"/>	_____		
<b>Sapling/Shrub Stratum (Plot size: 15' r )</b>			70 = Total Cover	<b>Prevalence Index worksheet:</b>	
1. <i>Lonicera tatarica</i>	40	<input checked="" type="checkbox"/>	FACU	Total % Cover of:	Multiply by:
2. <i>Sambucus nigra</i>	10	<input checked="" type="checkbox"/>	FACW	OBL species <u>0</u> x 1 = <u>0</u>	
3. _____	0	<input type="checkbox"/>	_____	FACW species <u>10</u> x 2 = <u>20</u>	
4. _____	0	<input type="checkbox"/>	_____	FAC species <u>50</u> x 3 = <u>150</u>	
5. _____	0	<input type="checkbox"/>	_____	FACU species <u>140</u> x 4 = <u>560</u>	
6. _____	0	<input type="checkbox"/>	_____	UPL species <u>10</u> x 5 = <u>50</u>	
7. _____	0	<input type="checkbox"/>	_____	Column Totals: <u>210</u> (A) <u>780</u> (B)	
<b>Herb Stratum (Plot size: 5' r )</b>			50 = Total Cover	Prevalence Index = B/A = <u>3.714</u>	
1. <i>Persicaria virginiana</i>	30	<input checked="" type="checkbox"/>	FAC	<b>Hydrophytic Vegetation Indicators:</b>	
2. <i>Lonicera tatarica</i>	20	<input checked="" type="checkbox"/>	FACU	<input type="checkbox"/> Rapid Test for Hydrophytic Vegetation	
3. <i>Geum canadense</i>	10	<input type="checkbox"/>	FAC	<input type="checkbox"/> Dominance Test is > 50%	
4. <i>Smilax lasioneuron</i>	10	<input type="checkbox"/>	UPL	<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>	
5. <i>Smilax rotundifolia</i>	10	<input type="checkbox"/>	FAC	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
6. _____	0	<input type="checkbox"/>	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
7. _____	0	<input type="checkbox"/>	_____	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
8. _____	0	<input type="checkbox"/>	_____	<b>Definitions of Vegetation Strata:</b>	
9. _____	0	<input type="checkbox"/>	_____	Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
10. _____	0	<input type="checkbox"/>	_____	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall..	
11. _____	0	<input type="checkbox"/>	_____	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
12. _____	0	<input type="checkbox"/>	_____	Woody vine - All woody vines greater than 3.28 ft in height.	
<b>Woody Vine Stratum (Plot size: 30' r )</b>			80 = Total Cover		
1. <i>Parthenocissus quinquefolia</i>	10	<input checked="" type="checkbox"/>	FACU		
2. _____	0	<input type="checkbox"/>	_____		
3. _____	0	<input type="checkbox"/>	_____		
4. _____	0	<input type="checkbox"/>	_____		
			10 = Total Cover		
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	

Remarks: (Include photo numbers here or on a separate sheet.)  
The criterion for hydrophytic vegetation is not met.

\*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.



CERTIFIED SURVEY MAP NO. \_\_\_\_\_.

BEING PART OF THE SOUTHEAST 1/4 OF THE  
SOUTHWEST 1/4 AND PART OF THE SOUTHWEST  
1/4 OF THE SOUTHEAST 1/4 OF SECTION 2,  
TOWNSHIP 1 NORTH, RANGE 19 EAST OF THE  
FOURTH PRINCIPAL MERIDIAN IN THE TOWN-  
SHIP OF WHEATLAND, COUNTY OF KENOSHA AND  
STATE OF WISCONSIN.

OWNER/SUBDIVIDER: ARTHUR A. AND PAUL J. NABER  
3405 S. BROWNS LAKE DRIVE #3  
BURLINGTON, WI 53105

PREPARED BY: B.W. SURVEYING, INC.  
412 N. PINE STREET  
BURLINGTON, WI 53105  
JOB NO. 9340-CSM

**LEGAL DESCRIPTION:**

BEING PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE  
SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 19  
EAST OF THE FOURTH PRINCIPAL MERIDIAN IN THE TOWNSHIP OF WHEATLAND, COUNTY  
OF KENOSHA, STATE OF WISCONSIN AND BEING MORE PARTICULARLY DESCRIBED AS  
FOLLOWS: BEGINNING AT THE SOUTH 1/4 CORNER OF SAID SECTION 2; THENCE SOUTH  
87°33'28" WEST ALONG THE SOUTH LINE OF SAID SOUTHWEST 1/4 SECTION 429.10 FEET;  
THENCE NORTH 1°16'18" WEST 665.96 FEET; THENCE NORTH 87°37'30" EAST 429.09 FEET TO  
A POINT ON THE EAST LINE OF SAID SOUTHWEST 1/4 SECTION; THENCE NORTH 01°16'18"  
WEST ALONG SAID EAST LINE 82.77 FEET; THENCE NORTH 88°13'36" EAST 1337.07; THENCE  
SOUTH 01°34'04" EAST 513.82 FEET TO A POINT IN THE CENTER LINE OF 73RD STREET;  
THENCE SOUTH 44°12'51" WEST ALONG SAID CENTER LINE 337.33 FEET TO A POINT ON THE  
SOUTH LINE OF SAID SOUTHEAST 1/4 SECTION; THENCE SOUTH 88°13'36" WEST ALONG  
SAID SOUTH LINE 1099.18 FEET TO THE PLACE OF BEGINNING. CONTAINING 28.91 ACRES OF  
LAND MORE OR LESS. DEDICATING THE SOUTH 16 FEET AND THE SOUTHEASTERLY 33  
FEET THEREOF FOR ROAD PURPOSES.

**SURVEYOR'S CERTIFICATE:**

I, ROBERT J. WETZEL, DO HEREBY CERTIFY THAT AT THE DIRECTION OF ARTHUR A. AND  
PAUL J. NABER, I HAVE SURVEYED THE LAND DESCRIBED HEREON AND THAT THE MAP  
SHOWN IS A CORRECT REPRESENTATION OF ALL LOT LINES AND THAT I HAVE FULLY  
COMPLIED WITH SECTION 236.34 OF THE WISCONSIN STATUTES AND THE SUBDIVISION  
ORDINANCE OF THE TOWNSHIP OF WHEATLAND, KENOSHA COUNTY, WISCONSIN.

DATED THIS 24TH DAY OF MAY, 2017.

  
ROBERT J. WETZEL S-1778





CERTIFIED SURVEY MAP NO. \_\_\_\_\_.

BEING PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4 AND PART OF THE SOUTHWEST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 2, TOWNSHIP 1 NORTH, RANGE 19 EAST OF THE FOURTH PRINCIPAL MERIDIAN IN THE TOWNSHIP OF WHEATLAND, COUNTY OF KENOSHA AND STATE OF WISCONSIN.

**OWNER'S CERTIFICATE:**

WE, ARTHUR A. AND PAUL J. NABER AS OWNERS, HEREBY CERTIFY THAT WE CAUSED THE LAND DESCRIBED ON THIS PLAT TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS REPRESENTED HEREON.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 .

\_\_\_\_\_  
ARTHUR A. NABER

\_\_\_\_\_  
PAUL J. NABER

STATE OF WISCONSIN)  
COUNTY OF RACINE ) ss

PERSONALLY CAME BEFORE ME THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 , THE ABOVE NAMED ARTHUR A. AND PAUL J. NABER, TO ME KNOWN TO BE THE PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGE THE SAME.

\_\_\_\_\_  
NOTARY PUBLIC  
COUNTY OF \_\_\_\_\_, STATE OF \_\_\_\_\_  
MY COMMISSION EXPIRES: \_\_\_\_\_

**KENOSHA COUNTY PLANNING, DEVELOPMENT AND EXTENSION EDUCATION COMMITTEE APPROVAL:**

THIS CERTIFIED SURVEY MAP WAS HEREBY APPROVED BY THE KENOSHA COUNTY PLANNING, DEVELOPMENT AND EXTENSION EDUCATION COMMITTEE ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 .

\_\_\_\_\_  
ERIN DECKER                      CHAIRPERSON

**TOWN OF WHEATLAND TOWN BOARD APPROVAL:**

THIS CERTIFIED SURVEY MAP IS HEREBY APPROVED BY THE TOWN OF WHEATLAND TOWN BOARD ON THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 .

\_\_\_\_\_  
WILLIAM GLEMBOCKI    TOWN CHAIRMAN

\_\_\_\_\_  
SHEILA SIEGLER                      TOWN CLERK

DATED THIS 24TH DAY OF MAY, 2017.

  
ROBERT J. WETZEL                      S-1778

