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# Wetland Delineation Report

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## Hooper Property

Village of DeForest, Dane County  
Wisconsin

November 9<sup>th</sup>, 2010

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## Wetland Delineator Qualifications

Scott Taylor holds a Master of Science degree in Forest Ecology and Management from the University of Wisconsin-Madison (1999). Taylor has attended the “Critical Methods in Wetland Delineation” training course annually since 2006. Taylor also completed the following courses that prepared him for performing wetland determinations and delineations in Wisconsin using the Army Corps of Engineers 1987 Manual Method:

- Wetland Plant Identification (July 2003, Delafield, WI. – Biotic Consultants, Inc.)
- Basic Wetland Delineation Training (August 2003, Wisconsin Rapids, WI. – UW La Crosse Continuing Education/Extension)
- Advanced Wetland Delineation Training (August 2006, Cable, WI. – UW La Crosse Continuing Education/Extension)

## Introduction

On October 22<sup>nd</sup> of 2010, Scott Taylor of Taylor Conservation LLC identified and staked wetlands on two agricultural parcels – one 27 acres and the other 58 acres – on the northern outskirts of the Village of DeForest, Dane County, Wisconsin (Figures 1-5). The parcels consisted almost entirely of cropland. Wetlands were found in three different settings on the parcels: (1) the bottoms and side-slopes of an agricultural drainage ditch, (2) the banks of the Yahara River and (3) the bottom of a roadside ditch.

As a storm-water management area, the roadside ditch may not be subject to WDNR or Army Corps jurisdiction. This area was staked and mapped since it occurred within an area mapped as having hydric soil inclusions on the NRCS soil map (Figure 6).

To identify wetlands on the cropland, air photos were inspected. Six years – all of them years of normal precipitation – of crop slides from the local Farm Service Agency office were inspected for wetland “signatures”. No part of the crop fields, with the exception of very small areas adjoining the wetlands along the Yahara River and the agricultural ditch, were found to be wetlands based in the crop slide analysis.

The Village of DeForest is preparing to purchase the two parcels. The village ordered a wetland delineation to establish a fair purchase price, and to plan future property development in a way that avoids or minimizes wetland impacts. Approximately 1.2 acres of wetland was delineated on the two parcels. They are in T9N, R10E, Section 8 (SENW, SWNE, SENE).

## Methods

The following reference materials were reviewed prior to performing field work:

- 1) National Cooperative Soil Survey, Web Soil Survey
- 2) Wisconsin Wetland Inventory maps (WDNR Surface Water Data Viewer – Wetlands Theme).

- 3) U.S.G.S. 7.5 minute topographical map, Morrisonville Quadrangle.
- 4) Wisconsin Official Hydric Soil List (NRCS website: <http://www.wi.nrcs.usda.gov/technical/soil/hyd.html>).

The wetland determinations and the delineations followed the procedures for the Routine Method set forth in The Corps of Engineers Wetlands Delineation Manual (US Army Corps of Engineers 1987) and Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region. They also followed the methods set forth in the Basic Guide to Wisconsin Wetlands and their Boundaries (WI Dept. of Administration 1995).

### ***Method of Data Collection***

Vegetation, hydrology and soil information were gathered in sample plots and recorded on USACE data sheets. At each plot, a plot center was established and the presence or absence of normal circumstances or disturbances was noted. Next, herbaceous vegetation was sampled within a circular 5-foot radius plot. After that, vines, shrubs and trees were sampled within a circular 30-foot radius plot, centered on the herbaceous plot. Next, an 18 inch-deep soil pit was dug at the plot center. The presence or absence of hydrology indicators in the soil pit and within the surrounding 30-foot circular plot was noted. Finally, the soil profile in the pit was examined and described. A determination was then made as to whether the site was wetland or upland.

For plots located in agricultural fields, air photos were inspected for “wetland signatures”, or evidence of saturated soil, standing water or crop drown-out or stress. Air photos for 6 normal precipitation years (average monthly precipitation for January-June between 1.6 and 3.1 inches) between 1989 and 2001 were inspected. If a site possessed wetland signatures for at least 3 of the 6 years, it was judged to have wetland hydrology.

However, if field evidence, e.g. presence of wetland obligate plants or stunted crops, strongly suggested an area was wetland, it was determined to be so in spite of lacking wetland signatures 3 of 6 years.

### ***Location of Transects***

Sample plots were located inside of areas that appeared to be wetlands. If the sample plot data suggested the location was inside of a wetland, a second plot was placed in an upslope location with a different plant community. If data collected at this plot suggested that the location was inside of the upland, no further plots were sampled. Otherwise, the process was repeated. This procedure was followed 5 times. A total of 8 plots were sampled, 3 inside of wetlands and 5 on the uplands (Figures 4 & 5). Sample plots were marked with red wire-stake flags.

### ***Procedure for Locating Wetland Boundaries***

The wetland boundary was located by observing changes in elevation – especially when staking drainage ditch banks – and plant community composition. The presence of healthy, dominant quack grass (*Agropyron repens*-FacU) and smooth brome grass (*Bromus inermis*-Upl) as one moved upslope, away from the wetland were often considered reliable indicators of the boundary. The wetland boundary was marked with pink “wetland delineation” wire-stake flags.

## Results and Discussion

### *Regional Geology & Soils*

The geology of the surrounding region is dominated by old lake basins and glacial deposits, including outwash plains and ground moraines. The land surface is gently sloping in the higher areas and nearly level in low-lying areas, which are generally extinct lake beds. Soils that formed in ground moraines have silt loam and silty clay loam surface layers underlain by sandy loam material. Soils that formed in glacial outwash often have silt loam surface layers underlain by sand. Soils that formed in lake deposits consist of stratified layers of silt and sand.

### *Wetlands*

#### *Wetland Boundary Characteristics*

Wetlands were found in three different settings on the parcels: (1) the bottoms and side-slopes of an agricultural drainage ditch, (2) the banks of the Yahara River and (3) the bottom of a roadside ditch (Figures 2, 3, 4 & 5).

Along the ditches, the wetland boundaries were abrupt and followed the tops of the ditch banks, where a transition from wetland vegetation, usually dominated by reed canary grass (*Phalaris arundinacea*-FacW) and shrub willows (*Salix discolor*-FacW; *Salix fragilis*-Fac), to upland vegetation, usually dominated by brome grass and quack grass, was observed.

Along the Yahara River, the wetland boundary simply followed the edge of the cropland where it met grassy river-side vegetation, although in some very low areas it encompassed parts of the cropland as well.

#### *Wetland Vegetation*

The ditch-bottom wetlands were mostly brushy and grassy communities with scattered trees. They were completely dominated by hydrophytes, including reed canary grass, shrub willows, cottonwood (*Populus deltoids*-Fac), box elder (*Acer negundo*-FacW) and peach-leaf willow (*Salix amygdaloides*-FacW).

The river-side wetland was open and grassy. It was completely dominated by hydrophytes, primarily reed canary grass and stinging nettles (*Urtica dioica*-Fac).

#### *Wetland Hydrology*

The primary water sources of the wetlands were (1) surface runoff from surrounding cropland and (2) shallow ground water discharge.

Although water was observed in all of the wetland sample plots, the water table most likely draws down by early summer in most years. The current year, 2010, was wetter than most:

<b>January - mid-October Totals:</b>	<b>28 inches</b> (1971-2000 Jan.- mid-Oct. Average)	<b>33 inches</b> (2010 Total for Jan.- mid-Oct.)	<b>5 inches Above Average for Jan.- mid-Oct. 2010 (18%)</b>
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(Data from NOAA Online Weather Data, Madison, WI.)

All of the wetlands showed the primary hydrology indicator, “Saturation”. They also showed two secondary hydrology indicators, “Geomorphic Position” and “FAC-Neutral Test”.

Analysis of Farm Service Agency crop slides showed the all of the crop fields were successfully cropped in the majority of years. Four low spots in the fields were examined on crop slides taken during 6 normal precipitation years (see Appendix I for air photos and analysis results). None of the low areas showed wetland signatures for more than 2 of 6 normal precipitation years.

Nonetheless, the lowest portions of Areas 2 and 4 (Appendix I) were found to be wetlands upon field inspection. No wetland indicators were found in the field for any of the other areas examined on crop slides; hence they were judged to be uplands.

### *Wetland Soils*

The mapped soils of the wetlands are (Figure 6):

Soil	Drainage class	Hydric?
Otter silt loam (Ot)	Poorly Drained	Yes
Radford silt loam (RaA)	Somewhat Poorly Drained	Hydric inclusions

Otter soil forms on stream-bottoms in deep silt loam. Radford soil forms in low drainage-ways in deep silt loam.

The wetland soils observed in the field consisted of black (10 YR 2/1) silt loam or silty clay loam underlain by lighter-colored, low-chroma (e.g. 10 YR 4/2 or 5/2) clay or sandy clay. Plot 2A simply consisted of deep, black silt loam.

Plots 1A and 3A showed the hydric indicator “Depleted Matrix”. Plot 2A, however, did not show a hydric indicator but was assumed hydric based on the vegetation, hydrology and landscape position indicators.

### *Wisconsin Wetland Inventory*

The Wisconsin Wetlands Inventory (W.W.I.) map did not identify any wetlands on this site.

### *Uplands*

The uplands consisted of the grassy tops of the ditch banks and almost all of the crop fields (Figures 2, 3, 4 & 5).

### *Upland Vegetation*

Upland vegetation on the tops of ditch banks was dominated by upland grasses, e.g. brome grass and quack grass. However they also contained smaller amounts of reed canary grass, a hydrophyte, and Fac-rate plants like garlic mustard (*Alliaria petiolata*-Fac) and Kentucky blue grass (*Poa pratensis*-

Fac). Scattered plants of burdock (*Arctium minus*-Upl) and motherwort (*Leonurus cardiaca*-Upl) were noted as well.

The crop fields were simply dominated by field corn (*Zea mays*-Upl).

#### *Upland Hydrology*

No hydrology indicators were noted in any of the upland sample plots. They were all well-elevated above the nearby wetlands. Moreover, the cropland that was close to the plots, or on which the plots were located, did not show wetland signatures on crop slides in the majority of years.

#### *Upland Soils*

The mapped soils of the uplands are (Figure 6):

Soil	Drainage class	Hydric?
Dodge silt loam (DnB, C2)	Well Drained	No
McHenry silt loam (MdB)	Well Drained	No
Plano silt loam (PnA)	Well Drained	No
Otter silt loam (Ot)	Poorly Drained	Yes
Radford silt loam	Somewhat Poorly Drained	Hydric Inclusions
St. Charles silt loam (ScB)	Well Drained	No

Apart from Otter and Radford (see “Wetland Soils” above), these soils formed in loess over glacial till. Typical profiles consist of silt loam surface layers underlain by silty clay loam and sandy loam till.

In general, upland soils consisted of deep dark (10 YR 2/1 or 2/2) silt loam or silty clay loam. No hydric indicators were observed in any of the upland plots.

In some cases, redox concentrations were noted in upland soils; however they were either too few and faint or they began too deep to qualify as hydric indicators.

#### ***Assessment of Wetland Quality per NR 151***

Since the wetlands were heavily dominated by reed canary grass and/or occupied dug ditches, they would probably be considered “less susceptible” to storm-water impacts under NR 151.

For “less susceptible” wetlands, the width of the Protective Area, which is an area adjoining waters and wetlands that is free of buildings and impervious surfaces, must be “10% of the average wetland width, but no less than 10 feet nor more than 30 feet” (see NR 151.12, p. 410-1 “Protective Areas”).

Project designers must determine the average width of each wetland to find the exact width of the Protective Areas.

These conclusions are merely the opinion of Taylor Conservation LLC; they must be confirmed with WDNR personnel before further planning or development of the property.

## Conclusion

The wetland boundaries marked in the field are the best estimate of the locations of the boundaries based on the available vegetation, hydrology and soil evidence on October 22<sup>nd</sup> of 2010. Wetland boundaries can change over time with changes in vegetation, precipitation, or regional hydrology. The US Army Corps of Engineers and/or the Wisconsin Department of Natural Resources have authority to make the final decision regarding the wetland boundary. Personnel from these agencies may adjust the boundary upon field inspection. The client is advised to delay any development of the property until receiving a formal opinion from regulatory authorities regarding the presence of jurisdictional wetlands on the property.

## References

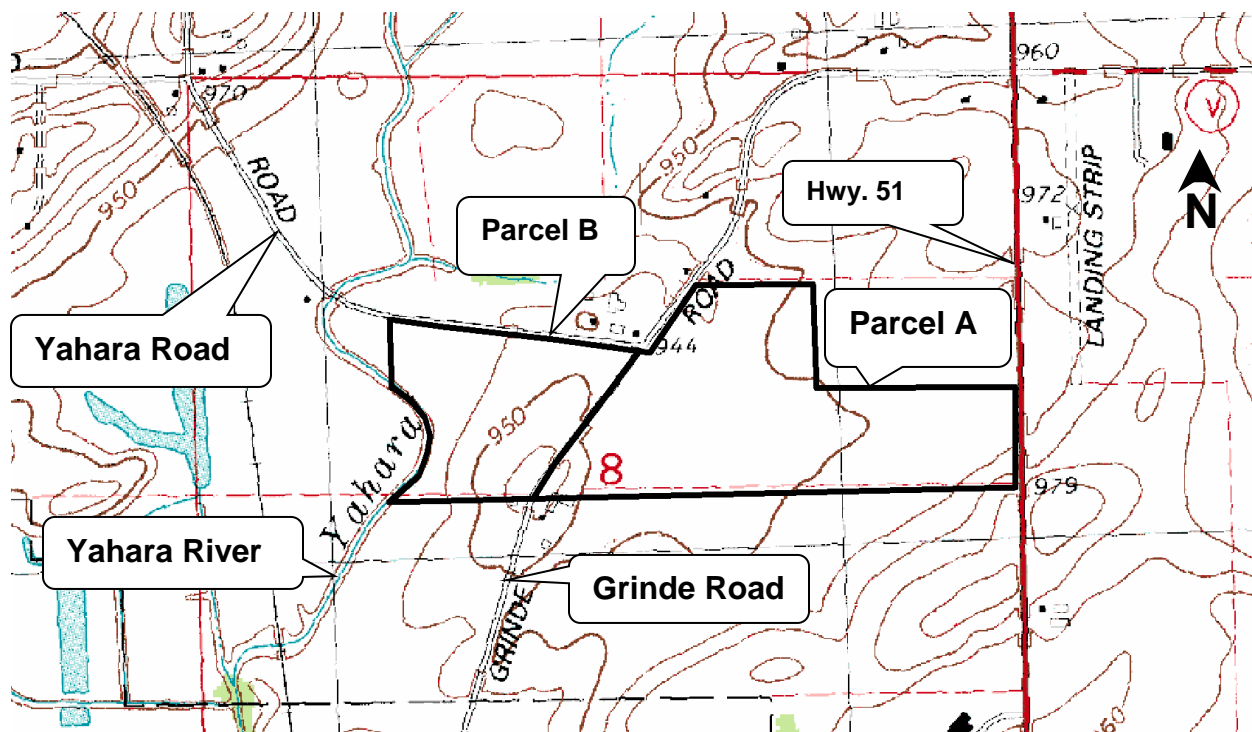
- Hurt, G.W. & Vasilas, L.M. 2006. Field Indicators of Hydric Soils in the United States: A Guide for Identifying and Delineating Hydric Soils, Version 6.0. Natural Resource Conservation Service, United States Department of Agriculture.
- Reed, P.B. 1988. National List of Plant Species that Occur in Wetlands: Region 3. U.S. Fish and Wildlife Service. Biol. Rept. 88.
- US Army Corps of Engineers, Waterways Experiment Station. 1987. Corps of Engineers Wetlands Delineation Manual. Wetlands Research Program Technical Report Y-87-1.
- USDA, Natural Resource Conservation Service (NRCS). 2004. Wisconsin Official Hydric Soil List (NRCS website: <http://www.wi.nrcs.usda.gov/technical/soil/hyd.html>).
- Wisconsin Department of Administration, Coastal Management Program. 1995. Basic Guide to Wisconsin's Wetlands and their Boundaries.



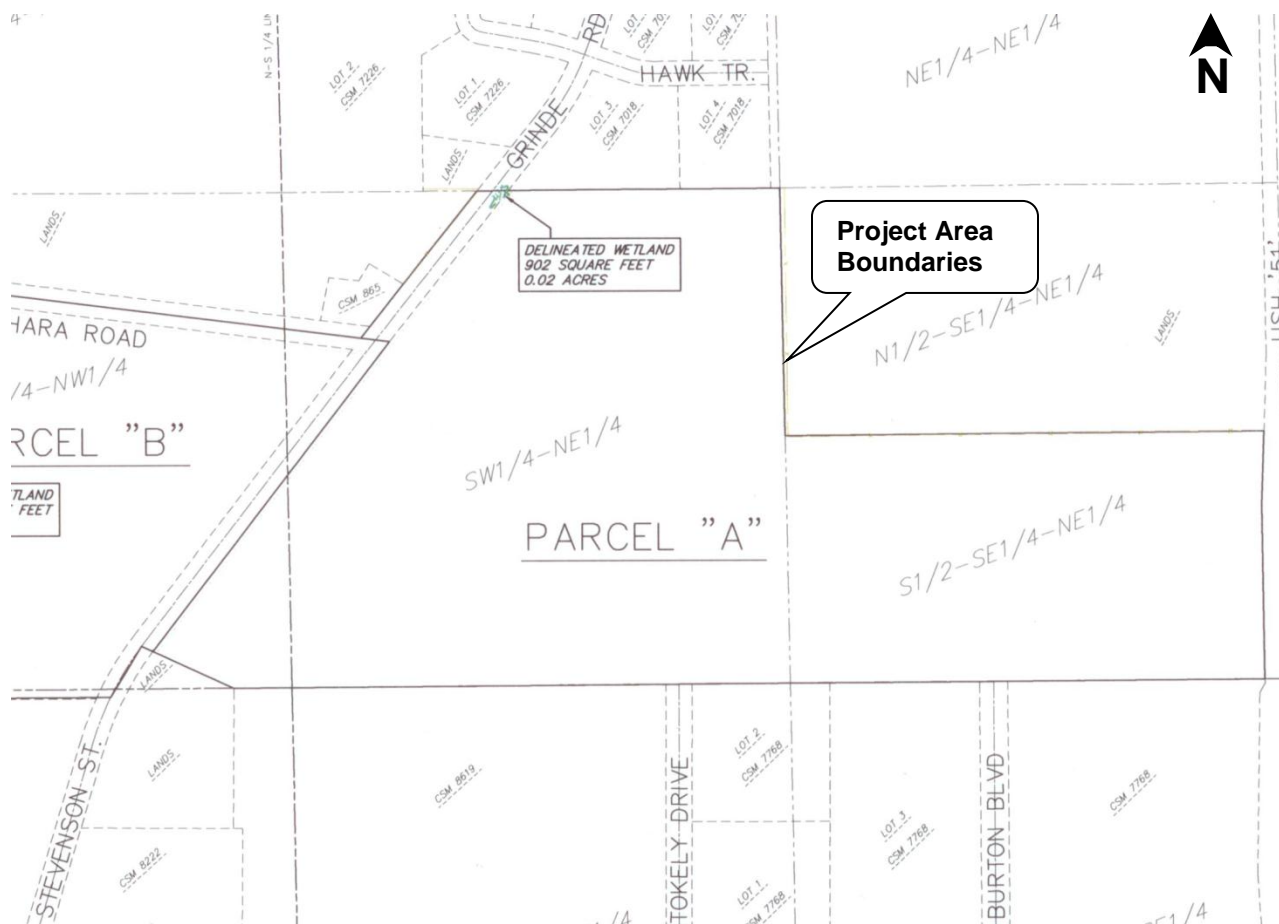
## Figures

*Figure 1: Landscape Overview Map*

Source: U.S.G.S. 7.5 Minute Topographical Map, Morrisonville Quadrangle.

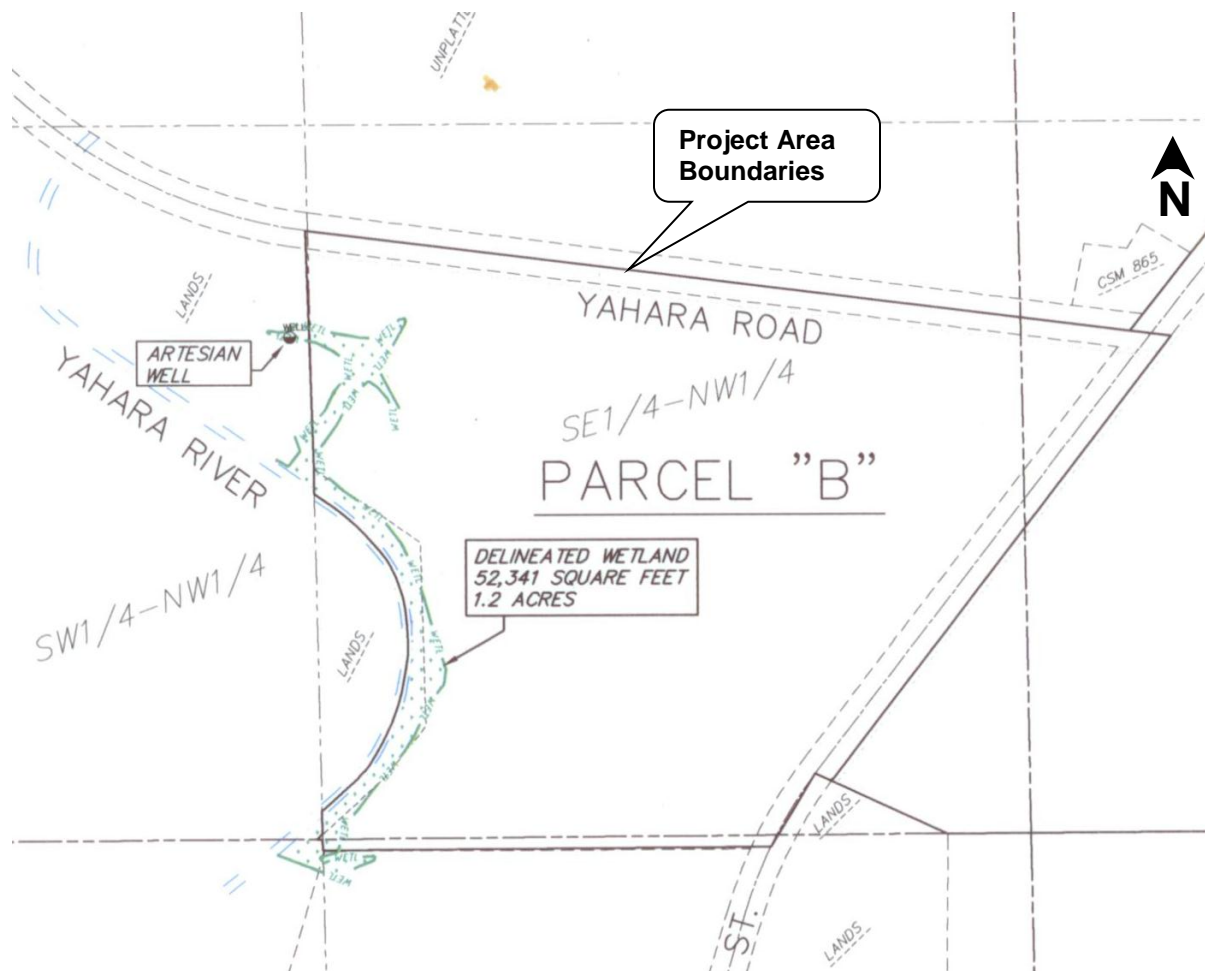


Source: Vierbicher



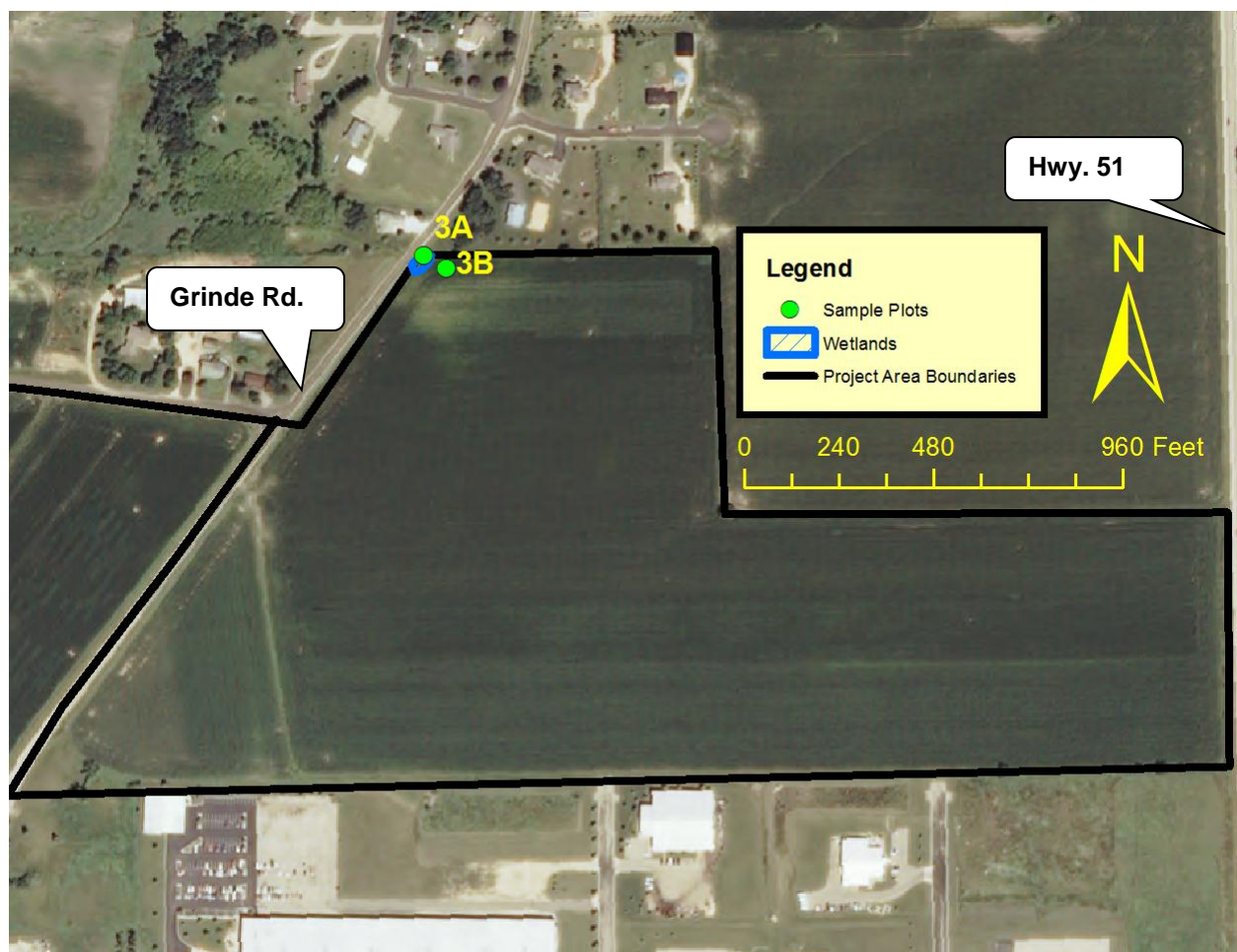
**Figure 3: Survey Map – Parcel B.**

Source: Vierbicher



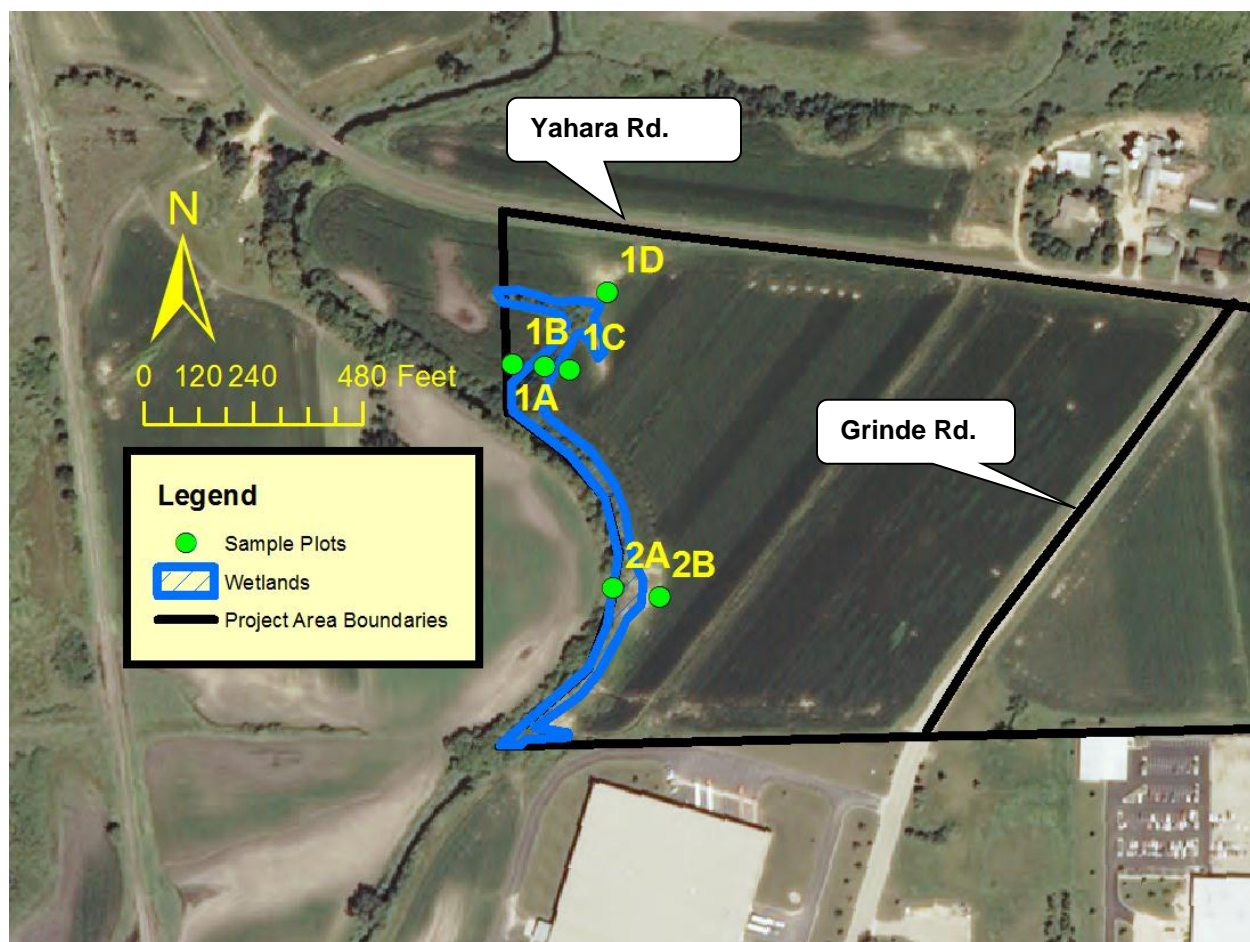
*Figure 4: Air Photo, Sample Plots & Wetland Boundary – Parcel A.*

Source: National Agricultural Imagery Program, 2008.



*Figure 5: Air Photo, Sample Plots & Wetland Boundary – Parcel B.*

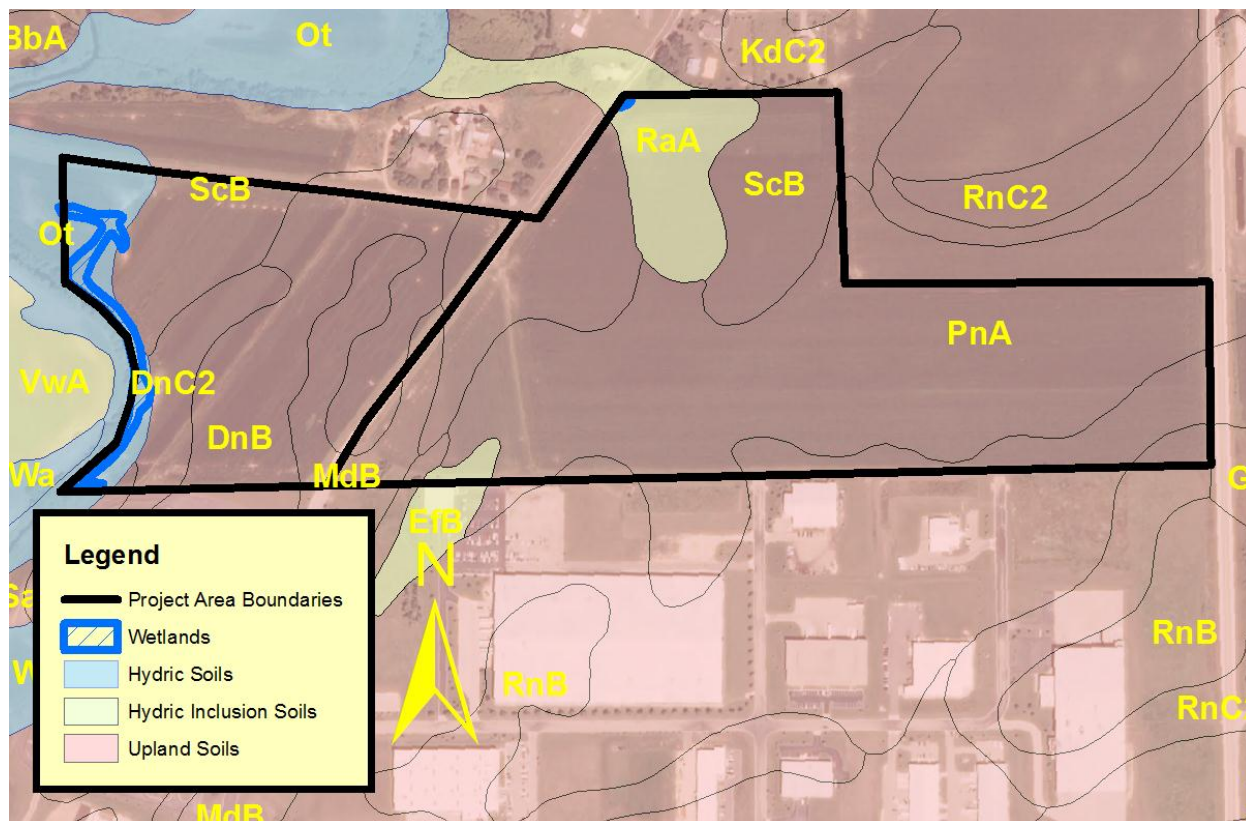
Source: National Agricultural Imagery Program, 2008.



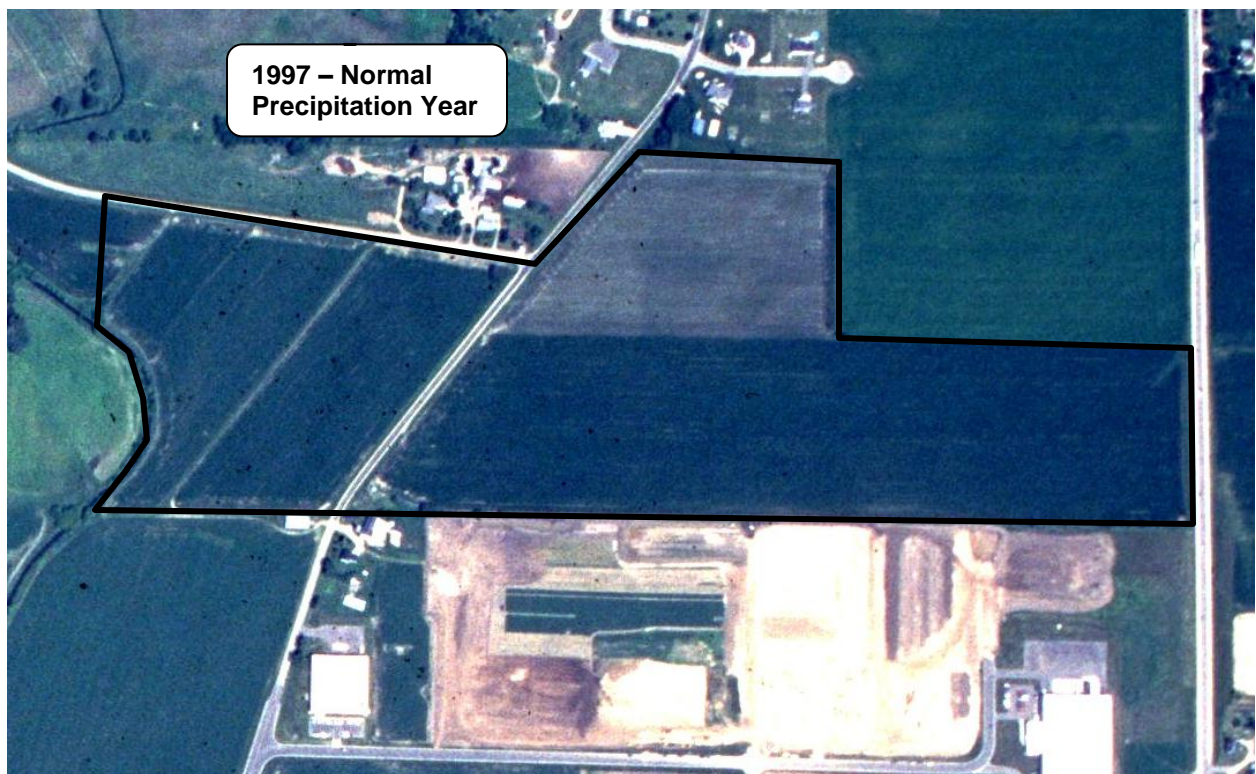
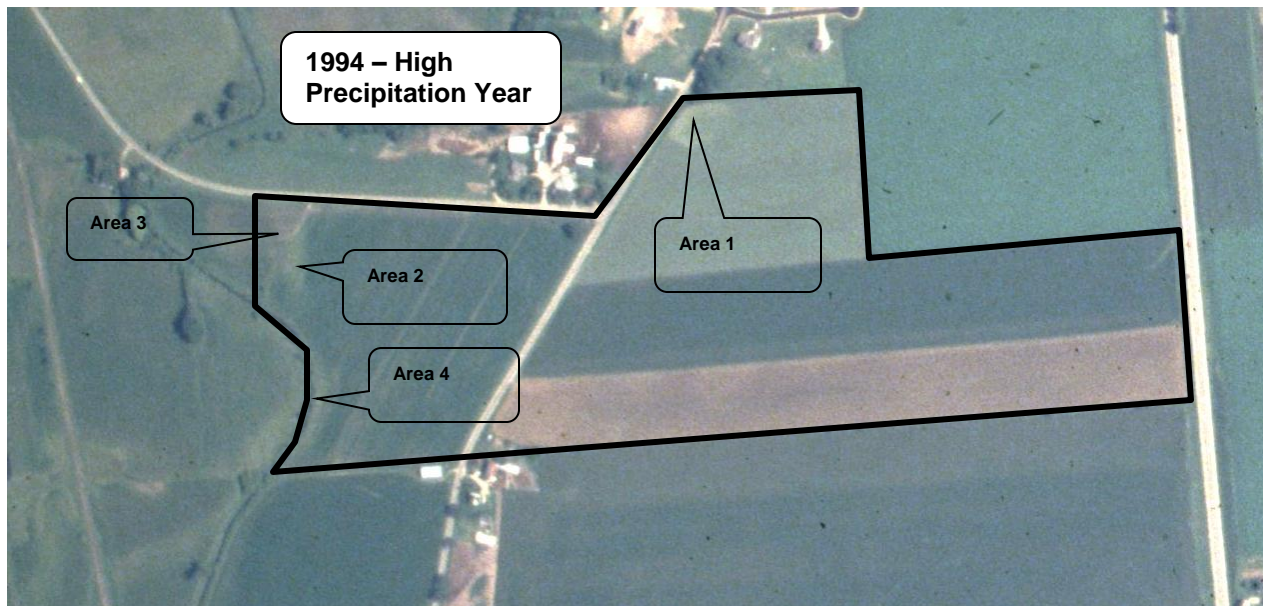


**Figure 6: Soils of Project Area.**

Source: Natural Resource Conservation Service.



## Appendix I: Crop Slide Analysis





## WETLAND DOCUMENTATION RECORD

### Remotely Sensed Data Summary

Site Identification No. \_\_\_\_\_ - \_\_\_\_\_ (Tract No. + Site No.)

[illegible]

Y = signal indicates wetness (+ = strong, - = weak)		N = NO wetness signature	
CR = cropped (row crop or tilled)		NC = not cropped (hay, pasture, idle, etc.)	
<u>Feature</u>	<u>Color</u>	<u>Manipulation</u>	<u>Other</u>
1 = water	6a = dark green	7a = ditched	write explanation
2 = mud flat	6b = light green	7b = tiled	
3 = bare spot	6c = yellow	7c = filled	
4 = drowned crop	6d = brown	7d = tree/brush removal	
5 = planted late	6e = black	8 = plowed/tilled	

Taylor Conservation, LLC

## **Appendix II: Data Sheets**

Project/Site:	Hooper Property	City/County:	Dane County	Sampling Date:	October 22, 2010
Applicant/Owner:	Village of DeForest	State:	WI	Sampling Point:	1A
Investigator(s):	Scott Taylor	Section, Township, Range:	Section 8, T9N, R10E		
Landform (hillslope, terrace, etc.):	Toeslope of ditchbank	Local relief (concave, convex, none):	Concave		
Slope (%):	2	Lat.: 43° 15' 42.5"N	Long.: 89° 20' 5.3" W	Datum:	UTM 16N
Soil Map Unit Name:	Otter silt loam (Ot)	WWI Classification:	None		
Are climatic/hydrologic conditions of the site typical for this time of the year?				Yes (If no, explain in remarks)	
Are vegetation _____, soil _____, or hydrology _____ significantly disturbed?		Yes			
Are vegetation _____, soil _____, or hydrology _____ naturally problematic?		No			
(If needed, explain any answers in remarks)				Are "normal circumstances" present?	
				Yes	

Hydrophytic vegetation present?	<u>Yes</u>	Is the sampled area within a wetland?	<u>Yes</u>
Hydric soil present?	<u>Yes</u>	If yes, optional wetland site ID:	<u></u>
Wetland hydrology present?	<u>Yes</u>		
Remarks: (Explain alternative procedures here or in a separate report.)			
The soil was significantly disturbed since it was on the bottom of a dug ditch.			

ELEVATION: 655 (scientific names of plants)						
Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1	<i>Salix amygdaloides</i>	70	Yes	FacW	18	45
2	<i>Populus deltoides</i>	10	No	Fac	15	38
3	<i>Acer negundo</i>	10	No	FacW	14	35
4					0	0
5						
6						
7						
8						
9						
10						
		90	= Total Cover			
Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Salix discolor</i>	75	Yes	FacW		
2						
3						
4						
5						
6						
7						
8						
9						
10						
		75	= Total Cover			
Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Phalaris arundinacea</i>	40	Yes	FacW		
2	<i>Geum canadense</i>	25	Yes	Fac		
3	<i>Taraxacum officinale</i>	5	No	FacU		
4						
5						
6						
7						
8						
9						
10						
11						
12						
		70	= Total Cover			
Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		
1						
2						
3						
4						
5						
		0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet)						
The plot is in a brushy, wooded ditch bottom.						
Dominance Test Worksheet						
Number of Dominant Species that are OBL, FACW, or FAC:					4	(A)
Total Number of Dominant Species Across all Strata:					4	(B)
Percent of Dominant Species that are OBL, FACW, or FAC:					100%	(A/B)
Prevalence Index Worksheet						
Total % Cover of:						
OBL species					x 1 =	0
FACW species					195 x 2 =	390
FAC species					35 x 3 =	105
FACU species					5 x 4 =	20
UPL species					x 5 =	0
Column totals					235 (A)	515 (B)
Prevalence Index = B/A =					2.191489	
Hydrophytic Vegetation Indicators:						
Rapid test for hydrophytic vegetation						
X Dominance test is >50%						
Prevalence index is ≤3.0*						
Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)						
Problematic hydrophytic vegetation* (explain)						
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic						
Hydrophytic vegetation present?					Yes	

## SOIL

Sampling Point: 1A

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

Depth (Inches)	Matrix		Redox Features		Type*	Loc**	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-3	10 YR 2/1	100	None				Silt loam	
3-18	2.5 Y 5/1	95	10 YR 5/6	5	C	PL	Sandy clay	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains  
M=Matrix

\*\*Location: PL=Pore Lining,

## Hydric Soil Indicators:

☐ Histisol (A1)  
☐ Histic Epipedon (A2) ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)  
☐ Black Histic (A3)  
☐ Hydrogen Sulfide (A4) ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)

## Indicators for Problematic Hydric Soils\*:

☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)  
☐ Coast Prairie Redox (A16) (**LRR K, L, R**)  
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)  
☐ Dark Surface (S7) (**LRR K, L**)

☐ Stratified Layers (A5)  
☐ Depleted Below Dark Surface (A11) ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)  
☐ Thick Dark Surface (A12) ☐ Loamy Gleyed Matrix (F2)  
☐ Sandy Mucky Mineral (S1) ☒ Depleted Matrix (F3)  
☐ Sandy Gleyed Matrix (S4) ☐ Redox Dark Surface (F6)  
☐ Sandy Redox (S5) ☐ Depleted Dark Surface (F7)  
☐ Stripped Matrix (S6) ☐ Redox Depressions (F8)  
☐ Dark Surface (S7) (**LRR R, MLRA 149B**)

☐ Polyvalue Below Surface (S8) (**LRR K, L**)  
☐ Thin Dark Surface (S9) (**LRR K, L**)  
☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)  
☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)  
☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)  
☐ Red Parent Material (TF2)  
☐ Very Shallow Dark Surface (TF12)  
☐ Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

Hydric soil present? ☐ Yes

## Remarks:

The plot is on the toe-slope of a ditch; the soil may have been disturbed as a result of ditch excavation.

## HYDROLOGY

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1) ☐ Water-Stained Leaves (B9)  
☒ High Water Table (A2) ☐ Aquatic Fauna (B13)  
☒ Saturation (A3) ☐ Marl Deposits (B15)  
☐ Water Marks (B1) ☐ Hydrogen Sulfide Odor (C1)  
☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3)  
☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4)  
☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6)  
☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7)  
☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks)  
☐ Sparsely Vegetated Concave Surface (B8)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)  
☐ Drainage Patterns (B10)  
☐ Moss Trim Lines (B16)  
☐ Dry-Season Water Table (C2)  
☐ Crayfish Burrows (C8)  
☐ Saturation Visible on Aerial Imagery (C9)  
☐ Stunted or Stressed Plants (D1)  
☒ Geomorphic Position (D2)  
☐ Shallow Aquitard (D3)  
☒ FAC-Neutral Test (D5)  
☐ Microtopographic Relief (D4)

## Field Observations:

Surface water present? Yes ☐ No ☒ Depth (inches): \_\_\_\_\_  
 Water table present? Yes ☒ No ☐ Depth (inches): 12  
 Saturation present? Yes ☒ No ☐ Depth (inches): 6  
 (includes capillary fringe)

Wetland hydrology present? Yes

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

## Remarks:

The plot is on the toe-slope of a ditch, where prolonged frequent saturation is likely.

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Hooper Property City/County: Dane County Sampling Date: October 22, 2010  
 Applicant/Owner: Village of DeForest State: WI Sampling Point: 1B  
 Investigator(s): Scott Taylor Section, Township, Range: Section 8, T9N, R10E  
 Landform (hillslope, terrace, etc.): High bench Local relief (concave, convex, none): Convex  
 Slope (%): 2 Lat.: 43° 15' 42.5"N Long.: 89° 20' 5.3" W Datum: UTM 16N  
 Soil Map Unit Name: Otter silt loam (Ot) WWI Classification: None  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No Are "normal circumstances" present? Yes  
 (If needed, explain any answers in remarks)

## SUMMARY OF FINDINGS

Hydrophytic vegetation present?	No	Is the sampled area within a wetland?	No
Hydric soil present?	No	If yes, optional wetland site ID:	
Wetland hydrology present?	No		
Remarks: (Explain alternative procedures here or in a separate report.)			

## VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1					0	0
2					0	0
3					26	65
4					0	0
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1	<i>Bromus inermis</i>	70	Yes	Upl		
2	<i>Phalaris arundinacea</i>	20	No	FacW		
3	<i>Arctium minus</i>	20	No	Upl		
4	<i>Leonurus cardiaca</i>	10	No	Upl		
5	<i>Alliaria petiolata</i>	10	No	Fac		
6						
7						
8						
9						
10						
11						
12						
		130 = Total Cover				

Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1						
2						
3						
4						
5						
		0 = Total Cover				

**Dominance Test Worksheet**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index Worksheet**

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	40
FAC species	x 3 =	30
FACU species	x 4 =	0
UPL species	x 5 =	500
Column totals	(A)	570 (B)

Prevalence Index = B/A = 4.3846154

**Hydrophytic Vegetation Indicators:**

\_\_\_\_\_ Rapid test for hydrophytic vegetation

\_\_\_\_\_ Dominance test is >50%

\_\_\_\_\_ Prevalence index is ≤3.0\*

\_\_\_\_\_ Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

\_\_\_\_\_ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present?	No
---------------------------------	----

Remarks: (Include photo numbers here or on a separate sheet)  
 The plot in an open, grassy area.

## SOIL

Sampling Point: 1B

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

Depth (Inches)	Matrix		Redox Features		Loc**	Texture	Remarks
	Color (moist)	%	Color (moist)	%			
0-14	10 YR 2/1	100	None			Silt loam	
14-18	10 YR 2/1	95	10 YR 4/6	5	C	PL Silt loam	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> Dark Surface (S7) ( <b>LRR K, L</b> )
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7) ( <b>LRR R, MLRA 149B</b> )		<input type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? No

Remarks:

The redox concentrations begin too deep to qualify as a hydric indicator. No B horizon was encountered.

## HYDROLOGY

Primary Indicators (minimum of one is 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"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two 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"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

The nearby cropland at the same elevation did not show wetland signatures on crop slides in the majority of years.

Remarks:

No hydrology indicators. The plot is well-elevated above nearby wetland plot 1A.

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Hooper Property City/County: Dane County Sampling Date: October 22, 2010  
 Applicant/Owner: Village of DeForest State: WI Sampling Point: 1C  
 Investigator(s): Scott Taylor Section, Township, Range: Section 8, T9N, R10E  
 Landform (hillslope, terrace, etc.): High bench Local relief (concave, convex, none): Convex  
 Slope (%): 2 Lat.: 43° 15' 42.5"N Long.: 89° 20' 5.3" W Datum: UTM 16N  
 Soil Map Unit Name: Otter silt loam (Ot) WWI Classification: None  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No Are "normal circumstances" present? Yes  
 (If needed, explain any answers in remarks)

## SUMMARY OF FINDINGS

Hydrophytic vegetation present?	No	Is the sampled area within a wetland?	No
Hydric soil present?	No	If yes, optional wetland site ID:	
Wetland hydrology present?	No		
Remarks: (Explain alternative procedures here or in a separate report.)			

## VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1		100	Yes	Upl
2	<i>Bromus inermis</i>	15	No	FacW
3	<i>Phalaris arundinacea</i>	15	No	Upl
4	<i>Arctium minus</i>			
5				
6				
7				
8				
9				
10				
11				
12				
		130 = Total Cover		

Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1				
2				
3				
4				
5				
		0 = Total Cover		

Tree Stratum 20% 50%

Tree Stratum 0 0

Sapling/Shrub Stratum 0 0

Herb Stratum 26 65

Woody Vine Stratum 0 0

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	30
FAC species	x 3 =	0
FACU species	x 4 =	0
UPL species	x 5 =	575
Column totals	(A)	605 (B)

Prevalence Index = B/A = 4.6538462

Hydrophytic Vegetation Indicators:

\_\_\_\_\_ Rapid test for hydrophytic vegetation

\_\_\_\_\_ Dominance test is >50%

\_\_\_\_\_ Prevalence index is ≤3.0\*

\_\_\_\_\_ Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

\_\_\_\_\_ Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present?	No
---------------------------------	----

Remarks: (Include photo numbers here or on a separate sheet)  
 The plot is in an open, grassy area.

## SOIL

Sampling Point: 1C

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-22	10 YR 2/1	100	None				Silty clay loam	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> Dark Surface (S7) ( <b>LRR K, L</b> )
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7) ( <b>LRR R, MLRA 149B</b> )		<input type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? No

Remarks:

No B horizon was encountered.

## HYDROLOGY

Primary Indicators (minimum of one is 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"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two 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"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

The nearby cropland at the same elevation did not show wetland signatures on crop slides in the majority of years.

Remarks:

No hydrology indicators. The plot is well-elevated above nearby wetland plot 1A.



# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Hooper Property City/County: Dane County Sampling Date: October 22, 2010  
 Applicant/Owner: Village of DeForest State: WI Sampling Point: 1D  
 Investigator(s): Scott Taylor Section, Township, Range: Section 8, T9N, R10E  
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave  
 Slope (%): 2 Lat.: 43° 15' 42.5"N Long.: 89° 20' 5.3" W Datum: UTM 16N  
 Soil Map Unit Name: Otter silt loam (Ot) WWI Classification: None  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ significantly disturbed? No  
 Are vegetation \_\_\_\_\_, soil \_\_\_\_\_, or hydrology \_\_\_\_\_ naturally problematic? No Are "normal circumstances" present? Yes  
 (If needed, explain any answers in remarks)

## SUMMARY OF FINDINGS

Hydrophytic vegetation present?	No	Is the sampled area within a wetland?	No
Hydric soil present?	No	If yes, optional wetland site ID:	
Wetland hydrology present?	No		
Remarks: (Explain alternative procedures here or in a separate report.)			

## VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Poa compressa</i>	45	Yes	FacU
2	<i>Poa pratensis</i>	45	Yes	Fac
3	<i>Agropyron repens</i>	30	Yes	FacU
4	<i>Daucus carota</i>	2	No	Upl
5				
6				
7				
8				
9				
10				
11				
12				
		122 = Total Cover		

Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1				
2				
3				
4				
5				
		0 = Total Cover		

Dominance Test Worksheet  Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across all Strata: 3 (B)  Percent of Dominant Species that are OBL, FACW, or FAC: 33% (A/B)	
Prevalence Index Worksheet Total % Cover of: OBL species x 1 = 0 FACW species x 2 = 0 FAC species 45 x 3 = 135 FACU species 75 x 4 = 300 UPL species 2 x 5 = 10 Column totals 122 (A) 445 (B) Prevalence Index = B/A = 3.647541	
Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation Dominance test is >50% Prevalence index is ≤3.0*  Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)  Problematic hydrophytic vegetation* (explain)	
*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic	

Hydrophytic vegetation present?	No
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Remarks: (Include photo numbers here or on a separate sheet)  
 The plot is in an open, grassy area.

## SOIL

Sampling Point: 1D

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

Depth (Inches)	Matrix		Color (moist)		Redox Features		Loc**	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*				
0-16	10 YR 2/1	100	None					Silty clay loam	
16-22	10 YR 2/1	99	10 YR 4/6	1	C		PL	Silty clay loam	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> Dark Surface (S7) ( <b>LRR K, L</b> )
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7) ( <b>LRR R, MLRA 149B</b> )		<input type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? No

Remarks:

The redox concentrations were very few and faint. They were also too deep to qualify as a hydric indicator. No B horizon was encountered.

## HYDROLOGY

Primary Indicators (minimum of one is 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"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two 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"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

The nearby cropland at the same elevation did not show wetland signatures on crop slides in the majority of years.

Remarks:

The plot is in a very shallow swale, nonetheless there were no hydrology indicators. The plot was well-elevated above nearby wetland plot 1A.

Project/Site:	Hooper Property	City/County:	Dane County	Sampling Date:	October 22, 2010
Applicant/Owner:	Village of DeForest	State:	WI	Sampling Point:	2A
Investigator(s):	Scott Taylor	Section, Township, Range:	Section 8, T9N, R10E		
Landform (hillslope, terrace, etc.):	Low bench	Local relief (concave, convex, none):	Concave		
Slope (%):	0	Lat.: 43° 15' 42.5"N	Long.: 89° 20' 5.3" W	Datum:	UTM 16N
Soil Map Unit Name:	Otter silt loam	WWI Classification:	None		
Are climatic/hydrologic conditions of the site typical for this time of the year?			Yes		
Are vegetation _____, soil <u>X</u> , or hydrology _____ significantly disturbed?			(If no, explain in remarks)		
Are vegetation _____, soil <u>X</u> , or hydrology _____ naturally problematic?			Are "normal circumstances" present?		
(If needed, explain any answers in remarks)			Yes		

Hydrophytic vegetation present?	<u>Yes</u>	Is the sampled area within a wetland?	<u>Yes</u>
Hydric soil present?	<u>Yes</u>	If yes, optional wetland site ID:	_____
Wetland hydrology present?	<u>Yes</u>		
Remarks: (Explain alternative procedures here or in a separate report.)			
The soil was probably significantly disturbed since the plot was alongside a constrained stream channel. The soil is naturally problematic since it is black in color, which could have masked a hydric indicator.			

Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	20%	50%
1					0	0
2					1	3
3					22	55
4					0	0
5						
6						
7						
8						
9						
10						
		0 = Total Cover				

Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Acer negundo</i>	5	Yes	FacW		
2						
3						
4						
5						
6						
7						
8						
9						
10						
		5 = Total Cover				

Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus		
1	<i>Phalaris arundinacea</i>	100	Yes	FacW		
2	<i>Urtica dioica</i>	10	No	Fac		
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
		110 = Total Cover				

Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		
1						
2						
3						
4						
5						
		0 = Total Cover				

Tree Stratum	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	1	3
Herb Stratum	22	55
Woody Vine Stratum	0	0

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% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	210
FAC species	x 3 =	30
FACU species	x 4 =	0
UPL species	x 5 =	0
Column totals	(A)	240 (B)

Prevalence Index = B/A = 2.0869565

Hydrophytic Vegetation Indicators:

         Rapid test for hydrophytic vegetation

         X Dominance test is >50%

         Prevalence index is ≤3.0\*

         Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

         Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present?	Yes

Remarks: (Include photo numbers here or on a separate sheet)  
The plot is in an open, grassy area.

## SOIL

Sampling Point: 2A

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

Depth (Inches)	Matrix Color (moist)	%	Color (moist)	%	Redox Features Type*	Loc**	Texture	Remarks
0-22	10 YR 2/1	100	None				Silt loam	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)		<input checked="" type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? \_\_\_\_\_ Yes

Remarks:

Other: No hydric indicator was observed but the soil was assumed hydric based on the vegetation, hydrology and landscape position indicators. The black color could have masked a hydric indicator. No B horizon was encountered.

## HYDROLOGY

Primary Indicators (minimum of one is 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 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 type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two 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 checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes ☒ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

10

Wetland hydrology present? Yes

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

The plot is on a low bench by the Yahara River, where prolonged frequent saturation is likely.

# WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Hooper Property City/County: Dane County Sampling Date: October 22, 2010  
 Applicant/Owner: Village of DeForest State: WI Sampling Point: 2B  
 Investigator(s): Scott Taylor Section, Township, Range: Section 8, T9N, R10E  
 Landform (hillslope, terrace, etc.): High bench Local relief (concave, convex, none): Convex  
 Slope (%): 5 Lat.: 43° 15' 42.5"N Long.: 89° 20' 5.3" W Datum: UTM 16N  
 Soil Map Unit Name: Dodge silt loam (DnC2) WWI Classification: None  
 Are climatic/hydrologic conditions of the site typical for this time of the year? Yes (If no, explain in remarks)  
 Are vegetation Yes, soil Yes, or hydrology Yes significantly disturbed?  
 Are vegetation Yes, soil Yes, or hydrology Yes naturally problematic? No Are "normal circumstances" present? Yes  
 (If needed, explain any answers in remarks)

## SUMMARY OF FINDINGS

Hydrophytic vegetation present?	<u>No</u>	Is the sampled area within a wetland?	<u>No</u>
Hydric soil present?	<u>No</u>	If yes, optional wetland site ID:	
Wetland hydrology present?	<u>No</u>		

Remarks: (Explain alternative procedures here or in a separate report.)  
 The soil was significantly disturbed since the upper soil layer consisted of deposited sediment. The vegetation was significantly disturbed since it was in a cultivated field.

## VEGETATION - Use scientific names of plants

Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		20%	50%
1					Tree Stratum	0	0
2					Sapling/Shrub Stratum	0	0
3					Herb Stratum	20	50
4					Woody Vine Stratum	0	0
5							
6							
7							
8							
9							
10							
		0	= Total Cover				

Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		20%	50%
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
		0	= Total Cover				

Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus		20%	50%
1	<u>Zea mays</u>	100	Yes	Upl			
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
		100	= Total Cover				

Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus		20%	50%
1							
2							
3							
4							
5							
		0	= Total Cover				

<p>Dominance Test Worksheet</p> <p>Number of Dominant Species that are OBL, FACW, or FAC: <u>0</u> (A)</p> <p>Total Number of Dominant Species Across all Strata: <u>1</u> (B)</p> <p>Percent of Dominant Species that are OBL, FACW, or FAC: <u>0%</u> (A/B)</p>																					
<p>Prevalence Index Worksheet</p> <p>Total % Cover of:</p> <table> <tr> <td>OBL species</td> <td>x 1 =</td> <td>0</td> </tr> <tr> <td>FACW species</td> <td>x 2 =</td> <td>0</td> </tr> <tr> <td>FAC species</td> <td>x 3 =</td> <td>0</td> </tr> <tr> <td>FACU species</td> <td>x 4 =</td> <td>0</td> </tr> <tr> <td>UPL species</td> <td>x 5 =</td> <td>500</td> </tr> <tr> <td>Column totals</td> <td>(A)</td> <td>500</td> </tr> </table> <p>Prevalence Index = B/A = <u>5</u></p>				OBL species	x 1 =	0	FACW species	x 2 =	0	FAC species	x 3 =	0	FACU species	x 4 =	0	UPL species	x 5 =	500	Column totals	(A)	500
OBL species	x 1 =	0																			
FACW species	x 2 =	0																			
FAC species	x 3 =	0																			
FACU species	x 4 =	0																			
UPL species	x 5 =	500																			
Column totals	(A)	500																			
<p>Hydrophytic Vegetation Indicators:</p> <p>_____ Rapid test for hydrophytic vegetation</p> <p>_____ Dominance test is &gt;50%</p> <p>_____ Prevalence index is ≤3.0*</p> <p>_____ Morphological adaptations* (provide supporting data in Remarks or on a separate sheet)</p> <p>_____ Problematic hydrophytic vegetation* (explain)</p> <p>*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic</p>																					
<p>Hydrophytic vegetation present? <u>No</u></p>																					

Remarks: (Include photo numbers here or on a separate sheet)  
 The plot is in a corn field.

## SOIL

Sampling Point: 2B

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

Depth (Inches)	Matrix		Color (moist)		Redox Features		Loc**	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type*				
0-8	10 YR 3/2	100	None					Silty clay loam	
8-22	10 YR 2/1	99	10 YR 4/6	1	C		PL	Silty clay	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> Dark Surface (S7) ( <b>LRR K, L</b> )
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7) ( <b>LRR R, MLRA 149B</b> )		<input type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? No

Remarks:

The redox concentrations were too few and faint to qualify as a hydric indicator. The surface layer probably consists of deposited sediment, the lower layer is the original surface layer.

## HYDROLOGY

Primary Indicators (minimum of one is 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"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two 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"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Crop slides did not show wetland signatures on this site.

Remarks:

No hydrology indicators. The plot is well-elevated above nearby wetland plot 2A. The corn crop was healthy in this area.

Project/Site:	Hooper Property	City/County:	Dane County	Sampling Date:	October 22, 2010
Applicant/Owner:	Village of DeForest	State:	WI	Sampling Point:	3A
Investigator(s):	Scott Taylor	Section, Township, Range:	Section 8, T9N, R10E		
Landform (hillslope, terrace, etc.):	Deep closed basin	Local relief (concave, convex, none):	Concave		
Slope (%):	0	Lat.: 43° 15' 42.5"N	Long.: 89° 20' 5.3" W	Datum:	UTM 16N
Soil Map Unit Name:	Radford silt loam (RaA)	WWI Classification:	None		
Are climatic/hydrologic conditions of the site typical for this time of the year?			Yes		
Are vegetation _____, soil _____, or hydrology _____ significantly disturbed?			(If no, explain in remarks)		
Are vegetation _____, soil _____, or hydrology _____ naturally problematic?			No	Are "normal circumstances" present?	
(If needed, explain any answers in remarks)				Yes	

Hydrophytic vegetation present?	<u>Yes</u>	Is the sampled area within a wetland?	<u>Yes</u>
Hydric soil present?	<u>Yes</u>	If yes, optional wetland site ID:	_____
Wetland hydrology present?	<u>Yes</u>		
Remarks: (Explain alternative procedures here or in a separate report.)			
The soil was significantly disturbed since the plot was on the bottom of a dug ditch.			

Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		0 = Total Cover		

Sapling/Shrub Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Salix fragilis</i>	50	Yes	Fac
2				
3				
4				
5				
6				
7				
8				
9				
10				
		50 = Total Cover		

Herb Stratum	Plot Size ( 78.5 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Phalaris arundinacea</i>	40	Yes	FacW
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
		40 = Total Cover		

Woody Vine Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus
1	<i>Vitis riparia</i>	50	Yes	FacW
2				
3				
4				
5				
		50 = Total Cover		

Tree Stratum	20%	50%
Tree Stratum	0	0
Sapling/Shrub Stratum	10	25
Herb Stratum	8	20
Woody Vine Stratum	10	25

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index Worksheet

Total % Cover of:

OBL species	x 1 =	0
FACW species	x 2 =	180
FAC species	x 3 =	150
FACU species	x 4 =	0
UPL species	x 5 =	0
Column totals	(A)	330 (B)

Prevalence Index = B/A = 2.3571429

Hydrophytic Vegetation Indicators:

         Rapid test for hydrophytic vegetation

         X Dominance test is >50%

         Prevalence index is ≤3.0\*

         Morphological adaptations\* (provide supporting data in Remarks or on a separate sheet)

         Problematic hydrophytic vegetation\* (explain)

\*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic

Hydrophytic vegetation present?	Yes

Remarks: (Include photo numbers here or on a separate sheet)  
Plot is in a brushy area with an understory of reed canary grass.

## SOIL

Sampling Point: 3A

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

Depth (Inches)	Matrix		Redox Features		Loc**	Texture	Remarks
	Color (moist)	%	Color (moist)	%			
0-3	10 YR 2/1	100	None			Silty clay loam	
3-18	2.5 Y 5/1	95	10 YR 4/6	5	C	PL Clay	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> Dark Surface (S7) ( <b>LRR K, L</b> )
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input type="checkbox"/> Dark Surface (S7) ( <b>LRR R, MLRA 149B</b> )		<input type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? \_\_\_\_\_ Yes

Remarks:

The plot is on the bottom of a dug ditch. The soil was probably disturbed during the course of ditch excavation.

## HYDROLOGY

Primary Indicators (minimum of one is 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 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 type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Iron Deposits (B5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Thin Muck Surface (C7)
	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two 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 checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes ☒ No \_\_\_\_\_ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

10

Wetland hydrology present? Yes

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

None

Remarks:

The plot is on the bottom of a dug ditch, where prolonged, frequent saturation is likely.



Project/Site:	Hooper Property	City/County:	Dane County	Sampling Date:	October 22, 2010
Applicant/Owner:	Village of DeForest	State:	WI	Sampling Point:	3B
Investigator(s):	Scott Taylor	Section, Township, Range:	Section 8, T9N, R10E		
Landform (hillslope, terrace, etc.):	High bench	Local relief (concave, convex, none):	Convex		
Slope (%):	2	Lat:	43° 15' 42.5"N	Long.:	89° 20' 5.3" W
		Datum:	UTM none		
Soil Map Unit Name:	Radford silt loam (RaA)	WWI Classification:	None		
Are climatic/hydrologic conditions of the site typical for this time of the year?				Yes	
(If no, explain in remarks)					
Are vegetation	X	soil	X	or hydrology	significantly disturbed?
Are vegetation		soil		or hydrology	naturally problematic?
(If needed, explain any answers in remarks)				No	Are "normal circumstances" present?
					Yes

Hydrophytic vegetation present?	<u>No</u>	Is the sampled area within a wetland?	<u>No</u>
Hydric soil present?	<u>No</u>	If yes, optional wetland site ID:	_____
Wetland hydrology present?	<u>No</u>		
Remarks: (Explain alternative procedures here or in a separate report.)			
The vegetation and soil was significantly disturbed since the plot was in a cultivated field.			

<table border="1"> <tr> <th>Tree Stratum</th> <th>Plot Size ( 2,826 sf )</th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Staus</th> </tr> <tr><td>1</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td>0 = Total Cover</td><td></td><td></td></tr> </table>					Tree Stratum	Plot Size ( 2,826 sf )	Absolute % Cover	Dominant Species	Indicator Staus	1					2					3					4					5					6					7					8					9					10		0 = Total Cover			<table border="1"> <tr> <td>Tree Stratum</td> <td>20%</td> <td>50%</td> </tr> <tr> <td>Sapling/Shrub Stratum</td> <td>0</td> <td>0</td> </tr> <tr> <td>Herb Stratum</td> <td>20</td> <td>50</td> </tr> <tr> <td>Woody Vine Stratum</td> <td>0</td> <td>0</td> </tr> </table>			Tree Stratum	20%	50%	Sapling/Shrub Stratum	0	0	Herb Stratum	20	50	Woody Vine Stratum	0	0																			
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<p>Remarks: (Include photo numbers here or on a separate sheet)</p> <p>The plot is in a corn field.</p>					<p>Hydrophytic vegetation present? No</p>																																																																																								

## SOIL

Sampling Point: 3B

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

Depth (Inches)	Matrix		Redox Features		Loc**	Texture	Remarks
	Color (moist)	%	Color (moist)	%			
0-24	10 YR 2/2	100	None			Silt loam	

\*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains

\*\*Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:

Indicators for Problematic Hydric Soils\*:

<input type="checkbox"/> Histisol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> 2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
<input type="checkbox"/> Histic Epipedon (A2)		<input type="checkbox"/> Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Black Histic (A3)		<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR R, MLRA 149B</b> )	<input type="checkbox"/> Dark Surface (S7) ( <b>LRR K, L</b> )
<input type="checkbox"/> Stratified Layers (A5)		<input type="checkbox"/> Polyvalue Below Surface (S8) ( <b>LRR K, L</b> )
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Loamy Mucky Mineral (F1) ( <b>LRR K, L</b> )	<input type="checkbox"/> Thin Dark Surface (S9) ( <b>LRR K, L</b> )
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Iron-Manganese Masses (F12) ( <b>LRR K, L, R</b> )
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
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<input type="checkbox"/> Dark Surface (S7) ( <b>LRR R, MLRA 149B</b> )		<input type="checkbox"/> Other (Explain in Remarks)

\*Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic

Restrictive Layer (if observed): None

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

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

Hydric soil present? No

Remarks:

No B horizon was encountered.

## HYDROLOGY

Primary Indicators (minimum of one is 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)
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Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
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<input type="checkbox"/> Microtopographic Relief (D4)

Field Observations:

Surface water present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Water table present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_Saturation present? Yes \_\_\_\_\_ No ☒ Depth (inches): \_\_\_\_\_

(includes capillary fringe)

Wetland hydrology present? No

Describe recorded data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Crop slides did not show wetland signatures on this site.

Remarks:

No hydrology indicators. The plot is well-elevated above nearby wetland plot 3A. The corn crop was healthy in this area.