



Dave Scheffler

## Non-Wetland Determination Report

3128, 3130, and 3132 Sunnyside Street  
Stoughton, WI 53589

PRJ109314 | June 23, 2023



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## Acronyms and Abbreviations

AOI	Area of Interest
DP	Data Point
FAC	Facultative Indicator Species
FACU	Facultative Upland Indicator Species
FACW	Facultative Wetland Indicator Species
GPS	Global Positioning System
NRCS	Natural Resources Conservation Service
NTCHS	National Technical Committee for Hydric Soils
NWI	National Wetland Inventory
OBL	Obligate Wetland Indicator Species
PI	Prevalence Index
PP	Photo-point
Regional Supplement	Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral/Northeast Region (Version 2.0)
RES	Resource Environmental Solutions, LLC
UPL	Upland Indicator Species
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
WWI	Wisconsin Wetland Inventory



## Introduction

Resource Environmental Solutions, LLC (RES) staff conducted a wetland delineation at 3128, 3130, and 3132 Sunnyside Street in the City of Stoughton, Dane County, Wisconsin (Appendix A, Figure 1). The approximately 0.6-acre Area of Interest (AOI) is in the southwest ¼ of Section 18, Township 06 North, Range 11 East and consists of three residential lots adjacent to a large wetland complex owned by Dane County to the north and Lake Kegonsa to the south.

This report was prepared based on RES's understanding and interpretation of the wetland delineation methods described in the U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual (Environmental Laboratory 1987), Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral/Northeast Region (Version 2.0) (hereafter, Regional Supplement) (USACE 2012), and Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources (USACE 2015).

The objective of this wetland delineation is to provide the spatial boundary of wetlands, if present, within the AOI. RES Ecologist, Matt Parsons, and RES intern, Jack Krebs, conducted the wetland delineation on June 1, 2023. Mr. Parsons is an assured delineator and was lead investigator.

## Regulatory Definitions

### Wetlands

Wetlands are areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

## Methods

### Desktop Analysis and Background Information Review

Several sources of information were reviewed to evaluate the property and identify potential wetland soil map units and potential wetlands onsite. The general topography of the site was reviewed using an online one-foot topographic map (Figure 2). Soil types were identified using the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey for Dane County, Wisconsin (Figure 3). Potential wetlands were identified using the Wisconsin Wetlands Inventory (WWI) (Figure 4). Maps can only be used to establish the probability and approximate location of wetlands on the site; therefore, the USACE does not accept the use of these maps to make final wetland determinations. Final wetland determinations were made with onsite observations and fieldwork. Prior to the fieldwork, background information was reviewed to establish the probability and approximate location of wetlands on the site. The following maps were reviewed offsite or onsite as part of the wetland determination:

- Dane County Topographic Map – The topographic map (Figure 2) shows the general elevations of the site. The site is flat with elevations that range from 845 to 846 feet.
- Soil Survey Map – The NRCS Web Soil Survey Map (Figure 3) identifies two soil map units within the site boundaries: Cut and fill land (Cu) and Houghton muck (Ho). Data associated with each soil map unit are presented in Table 1.
- WWI Map – the WWI map of the area (Figure 4) indicates that one wet soil, palustrine, broad-leaved,



deciduous, forested wetland (S3K) is present just outside the northeastern AOI boundary.

**Table 1. Soils Data**

Soil Map Unit Symbol and Name	% of AOI	Drainage Classification*	Major/Minor Components	Map Unit % Composition	Hydric Soil Rating
Cu – Cut and fill land	90%	Moderately well drained	Cut and fill land	100%	No
Ho – Houghton muck	10%	Very poorly drained	Houghton	100%	Yes

\* Pertains to major component soil.

All figures are presented in Appendix A.

## Site Investigation

On June 1, 2023, RES searched for wetlands contained within the 0.6-acre AOI; however, wetland conditions were absent and no wetlands were delineated. An offsite wetland is present immediately northeast of the northeast property boundary (Figure 5). The boundary of this wetland was surveyed using a Global Positioning System (GPS) receiver where the wetland nears the property boundary. However, because the wetland was offsite, no soil pits were excavated and no data points were established in the wetland.

Three (3) soil test pits that were representative of the AOI were excavated and investigated for evidence of wetland conditions (Figure 5). At each soil pit a Northcentral/Northeast Region wetland delineation data form was prepared and a determination was made as to whether each was in a wetland or upland based on the three criteria: vegetation, soils, and hydrology.

## Wetlands

The Regional Supplement was used to provide technical guidance and procedures for identifying and delineating wetlands. The three essential characteristics of a wetland are hydrophytic vegetation, wetland hydrology, and hydric soils. All three characteristics must be present to be considered wetland.

1. **Vegetation:** The principal hydrophytic vegetation criteria to be met are when all dominant species across all strata are rated OBL and/or FACW based on visual assessment (rapid test) or when greater than 50% of the dominant plant species are hydrophytes (dominance test) (USACE 2020). The indicator status of plant species is expressed in terms of the estimated probabilities of that species occurring in wetland conditions within a given region. Hydrophytes include all plants classified as "FAC", "FACW" or "OBL". If the plant community failed the dominance test but indicators of hydric soils and wetland hydrology were present, the prevalence index (PI) was calculated. The PI is a weighted average wetland indicator status of all species in a plot. Absolute percent cover for each species is weighted based on the species indicator status (OBL = 1, FACW = 2, FAC = 3, FACU = 4, UPL = 5). PI is the sum of the weighted absolute cover values divided by the sum of the absolute percent cover values. If PI is 3.0 or less, the plant community is considered hydrophytic.

Vegetation in several locations was found to be significantly disturbed due to the presence of a managed plant community (manicured turf). Since the lawn is not maintained intensively (e.g., regular weed control, overseeding, etc.) the plant communities were considered significantly disturbed but naturalized and not problematic.

2. **Hydrology:** Wetland hydrology is present if an area contains one or more "primary indicators" and/or two or more "secondary indicators" for USACE jurisdictional wetlands and isolated wetlands.



Primary indicators include either the direct presence of water as inundation or saturation within the upper 12 inches of the soil profile, or direct evidence of recent inundation, such as water marks, drift lines, sediment deposits, or drainage patterns. Secondary indicators include surface soil cracks, geomorphic position that could collect or concentrate water, and positive FAC-Neutral Test (i.e., dominant FACW and OBL species account for more than 50% of the total number of dominant species across strata, excluding FAC-rated dominants).

3. **Soils:** The National Technical Committee for Hydric Soils (NTCHS) defines a hydric soil as a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (NRCS 2018). Nearly all hydric soils exhibit characteristic morphologies that result from repeated periods of saturation or inundation for more than a few days. Saturation or inundation, when combined with microbial activity in the soil, causes the depletion of oxygen. This anaerobic condition promotes certain biogeochemical processes, such as the accumulation of organic matter and the reduction, translocation, and accumulation of iron and other reducible elements. These processes result in distinctive characteristics that persist in the soil during both wet and dry periods, making them particularly useful for identifying hydric soils in the field.

Some of the field indicators include dark color (low chroma), redoximorphic features, gleying, and/or the presence of a sulfurous odor. Although USDA soil maps are useful for soil identification, they should be used only as general guides. Soils are evaluated directly by excavating a test pit at each of the data point locations. In this report, soil colors are described using the Munsell notation system.

Soils consisted of historic fill at several data point locations and were considered significantly disturbed at these locations. This was considered the normal circumstance since this fill was likely placed decades ago and soils could be reliably described and interpreted.

### *Routine Wetland Delineation Data Forms*

Completed Routine Wetland Delineation Data Forms – Northcentral/Northeast Region for this delineation are in Appendix B. These forms are the written documentation of how the data points do or do not meet all three of the wetland criteria. Three (3) data points (DP01-DP03) were selected to document the conditions of the site.

### *Site Photographs*

Photographs of the site are presented in Appendix C. These photographs provide visual documentation of site conditions at the time of the June inspection. The photographs are intended to provide representative visual documentation of data points and other special features found on or near the site investigated. Photos were taken at all three data points and at four photo-documentation point (PP) locations.



## Results

### General Site Conditions

The site consists of three residential lots adjacent to a large wetland complex owned by Dane County to the north and Lake Kegonsa to the south. This area was filled at some point in the past to create developable land. The site contains several structures as well as a landscaped yard.

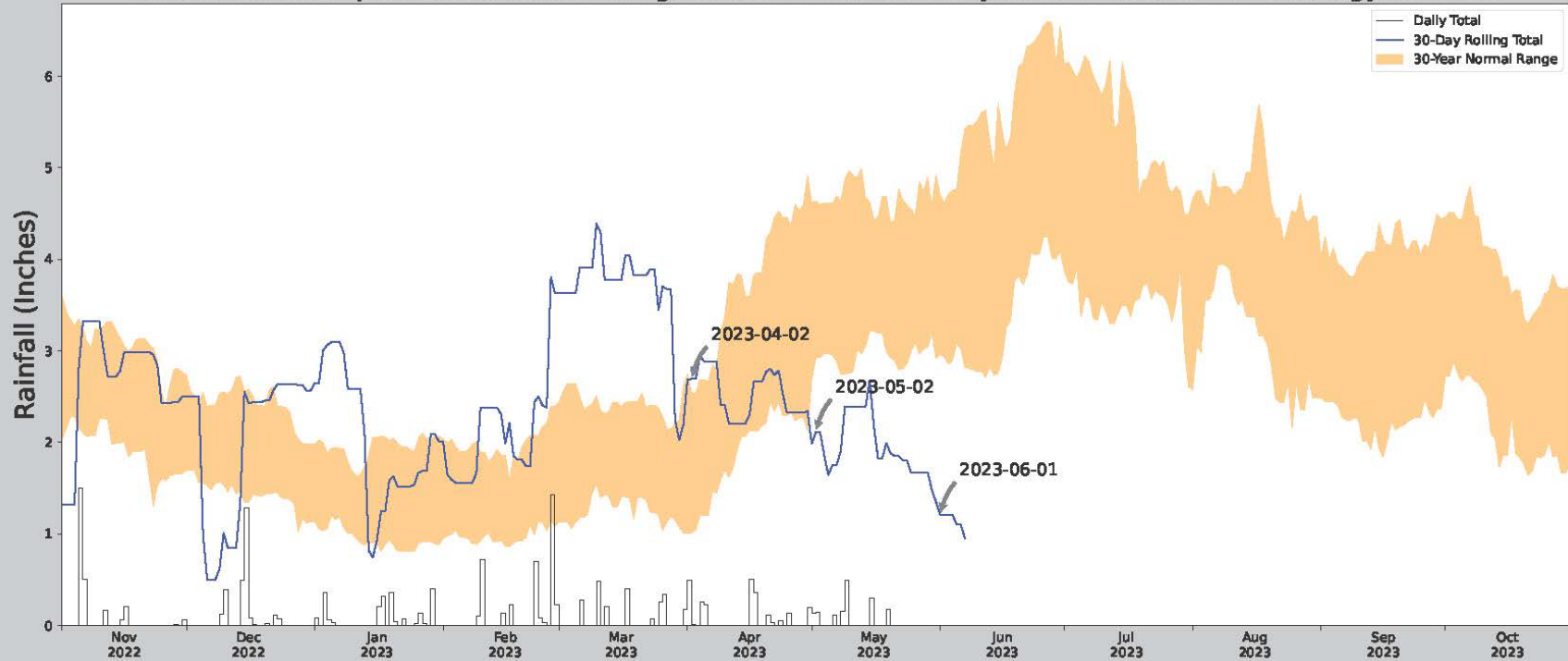
### Climatic Conditions

Climate data were obtained using the USACE Antecedent Precipitation Tool version 1.0. Precipitation from the 90-day period preceding the wetland survey was approximately 6.01 inches at the site (Table 2). Precipitation in March was above normal and below normal in April and May. Precipitation data analysis in Table 2 resulted in a weighted condition value sum of 8 indicating climatic/hydrologic conditions in early June 2023 were drier than normal. This delineation also took place during the dry season.



**Table 2. Antecedent Precipitation Analysis**

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	42.980927, -89.245459
Observation Date	2023-06-01
Elevation (ft)	845.522
Drought Index (PDSI)	Mild wetness (2023-05)
WebWIMP H <sub>2</sub> O Balance	Dry Season

30 Days Ending	30 <sup>th</sup> %ile (In)	70 <sup>th</sup> %ile (In)	Observed (In)	Wetness Condition	Condition Value	Month Weight	Product
2023-06-01	2.959055	4.697244	1.208661	Dry	1	3	3
2023-05-02	2.927165	4.634646	2.114173	Dry	1	2	2
2023-04-02	1.01063	2.535827	2.692913	Wet	3	1	3
Result							Drier than Normal - 8

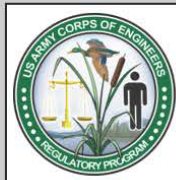


Figure and tables made by the Antecedent Precipitation Tool Version 1.0

Written by Jason Deters  
U.S. Army Corps of Engineers

Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
STOUGHTON WWTP	42.9111, -89.2131	835.958	5.095	9.564	2.341	10409	90
DUNKIRK 0.1 NW	42.8836, -89.2106	849.081	1.904	13.123	0.882	6	0
EDGERTON 5.9 N	42.9222, -89.0925	905.84	6.15	69.882	3.197	2	0
MCFARLAND 0.8 E	43.0186, -89.2785	890.092	8.13	54.134	4.099	47	0
MCFARLAND 1.3 NE	43.0324, -89.2767	883.858	8.977	47.9	4.47	4	0
OREGON 0.7 SE	42.918, -89.3739	941.929	8.151	105.971	4.532	3	0
OREGON 0.4 SSW	42.9208, -89.3854	976.05	8.744	140.092	5.16	3	0
COTTAGE GROVE	43.0769, -89.1911	866.142	11.51	30.184	5.527	3	0
UW ARBORETUM - MADISON	43.0411, -89.4286	870.079	14.119	34.121	6.835	844	0
MADISON DANE CO RGNL AP	43.1406, -89.3453	858.924	17.206	22.966	8.138	32	0





## Wetlands

Field observations revealed that wetland conditions (i.e., positive indicators of wetland hydrology, vegetation, and soils) were not present on the day of inspection (Figure 5). There is, however, an offsite wetland located immediately northeast of the northeast property boundary.

## Uplands

Representative data points were taken to confirm non-wetland conditions in upland areas. Upland data points include DP01-DP03 (Figure 5).

The hydric soil indicator Depleted Matrix (F3) was observed at DP01 and DP03. In addition, the indicator Redox Dark Surface (F6) was observed at DP02 and Depleted Below Dark Surface (A11) was observed at DP03.

The secondary indicator of wetland hydrology, FAC-Neutral Test (D5), was observed at DP03. No other wetland hydrology indicators were observed.

The plant communities at all upland data points passed the dominance test for the presence of hydrophytic vegetation.

All upland Data Points lacked at least one of the three parameters required to be classified as wetland (wetland hydrology, hydric soil, and hydrophytic vegetation) and were therefore classified as uplands. Data forms are presented in Appendix B.

## Literature Cited

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

[NRCS] Natural Resources Conservation Service. 2018. Field Indicators of Hydric Soils in the United States; Version 8.2. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS, in cooperation with the National Technical Committee for Hydric Soils.

[USACE] U.S. Army Corps of Engineers. 2012. Regional Supplement to the Corps of Engineers Wetland Delineation 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.

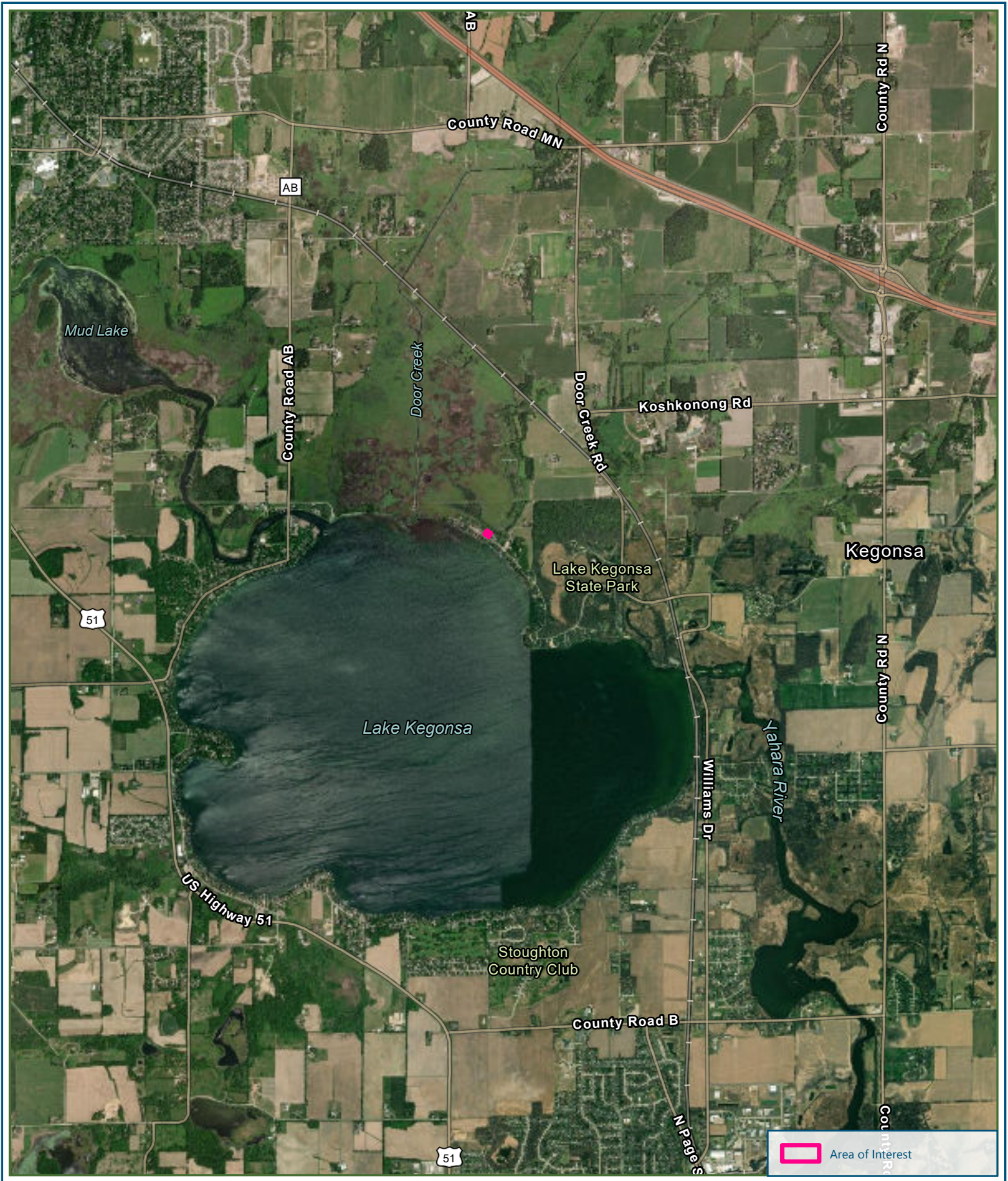
[USACE] U.S. Army Corps of Engineers. 2015. Special Public Notice: Guidelines for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources. U.S. Army Corps of Engineers, March 2015.

[USACE] U.S. Army Corps of Engineers. 2020. National Wetland Plant List, version 3.5. Available at <http://wetland-plants.usace.army.mil/>. U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH.



# Appendix A. Figures

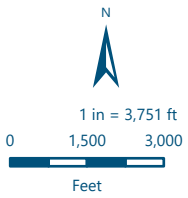




Cartographer: tschwartz | POC: CB | Path: R:\Resgens\Projects\109314\_Scheffler\_Weiland\_Deineston\PROJ\109314\_Scheffler\_Weiland\_WD.aprx | Layout: Fig 1 - Project Location (Portrait)

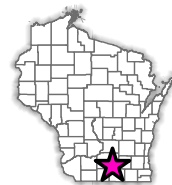
**Figure 1**  
Project Location

**Scheffler WD**  
Dane County, WI | 89.2437°W 42.976°N



*Reference:* Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

*Imagery Source:* ESRI  
*Spatial Reference:* NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet  
*Date Exported:* 6/14/2023  
*Project Number:* 109314



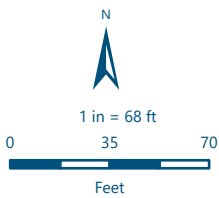




**Figure 2**  
Topography

**Scheffler WD**

Dane County, WI | 89.2455°W 42.9808°N



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.  
Imagery Source: WROC  
Spatial Reference:  
 NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet  
Date Exported: 6/14/2023  
Project Number: XXXXXX

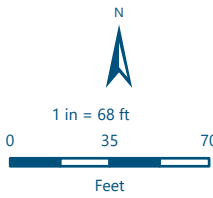




Cartographer: tschwartz | POC: CB | Path: F:\Resgo\eng\Projects\09314\_Scheffler\_Wetland\_Delineation\PROJECT\09314\_Scheffler\_WD.aprx | Layout: Fig 3 - Soils (Portrait)

**Figure 3**  
**SSURGO Soils**

**Scheffler WD**  
 Dane County, WI | 89.2454°W 42.9809°N



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.

Imagery Source: WROC

Spatial Reference: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet

Date Exported: 6/14/2023

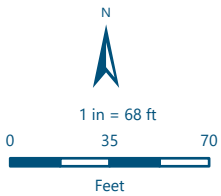
Project Number: #####





Cartographer: tschwartz | POC: CB | Path: R:\Regis\GIS\Projects\109314\_Scheffler\_Wetland\_Delineation\PROJ\109314\_Scheffler\_WD.aprx | Layout: Fig 4 - Wetland Inventory (Portrait)

**Figure 4**  
**Wisconsin Wetland Inventory**  
**Scheffler WD**  
 Dane County, WI | 89.2454°W 42.9809°N



Reference: Project limits are approximate. The property boundaries depicted on this map have not been surveyed and are for prospect assessment purposes only. This information is not to be used as final legal boundaries.  
Imagery Source: WROC  
Spatial Reference: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet  
Date Exported: 6/23/2023  
Project Number: XXXXXX









## **Appendix B. Data Forms**



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Scheffler Property Wetland Delineation City/County: Stoughton, Dane Sampling Date: 06/01/23  
 Applicant/Owner: Dave Scheffler State: WI Sampling Point: DP01  
 Investigator(s): Matt Parsons, Jack Krebs Section, Township, Range: Section 18, Township 6 North, Range 11 East  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 1  
 Subregion (LRR or MLRA): LRR K Lat: 42.981026461263376 Long: -89.24523198724494 Datum: WGS 84  
 Soil Map Unit Name: Houghton muck 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="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation analysis for this region and time period resulted in a weighted condition value sum of 8 indicating hydrologic conditions are drier than normal. Vegetation is disturbed due to managed plant community (manicured lawn); however the plant community was consider to be naturalized due to lack of intensive vegetation maintenance. Soil disturbed due to presence of historic fill, considered the normal circumstance since fill was likely placed several decades ago.	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> 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"/> Oxidized Rhizospheres on 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)	<b>Secondary Indicators (minimum of two required)</b> <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="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP01

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer saccharinum</u>	<u>20</u>	<u>Yes</u>	<u>FACW</u>
2. <u>Acer negundo</u>	<u>15</u>	<u>Yes</u>	<u>FAC</u>
3. <u>Juglans nigra</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>50</u> =Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Fraxinus pennsylvanica</u>	<u>15</u>	<u>Yes</u>	<u>FACW</u>
2. <u>Rhamnus cathartica</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>
3. <u>Acer negundo</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>
4. <u>Acer saccharinum</u>	<u>7</u>	<u>No</u>	<u>FACW</u>
5. <u>Cornus racemosa</u>	<u>5</u>	<u>No</u>	<u>FAC</u>
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>47</u> =Total Cover		
Herb Stratum (Plot size: <u>5 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Poa pratensis</u>	<u>50</u>	<u>Yes</u>	<u>FACU</u>
2. <u>Plantago rugelii</u>	<u>15</u>	<u>No</u>	<u>FAC</u>
3. <u>Glechoma hederacea</u>	<u>10</u>	<u>No</u>	<u>FACU</u>
4. <u>Carex blanda</u>	<u>7</u>	<u>No</u>	<u>FAC</u>
5. <u>Prunella vulgaris</u>	<u>5</u>	<u>No</u>	<u>FAC</u>
6. <u>Taraxacum officinale</u>	<u>2</u>	<u>No</u>	<u>FACU</u>
7. <u>Parthenocissus quinquefolia</u>	<u>1</u>	<u>No</u>	<u>FACU</u>
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	<u>90</u> =Total Cover		
Woody Vine Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
	_____ =Total Cover		

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____
Prevalence Index = B/A = _____	

**Hydrophytic Vegetation Indicators:**

   1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

   3 - Prevalence Index is ≤3.0<sup>1</sup>

   4 - 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 or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?**      Yes X      No \_\_\_\_\_

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



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Scheffler Property Wetland Delineation City/County: Stoughton, Dane Sampling Date: 06/01/23  
 Applicant/Owner: Dave Scheffler State: WI Sampling Point: DP02  
 Investigator(s): Matt Parsons, Jack Krebs Section, Township, Range: Section 18, Town 6 North, Range 11 East  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 1  
 Subregion (LRR or MLRA): LRR K Lat: 42.98111880059353 Long: -89.24542967474665 Datum: WGS 84  
 Soil Map Unit Name: Houghton muck 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="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation analysis for this region and time period resulted in a weighted condition value sum of 8 indicating hydrologic conditions are drier than normal. Vegetation is disturbed due to managed plant community (manicured lawn); however the plant community was consider to be naturalized due to lack of intensive vegetation maintenance.	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> 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"/> Oxidized Rhizospheres on 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)	<b>Secondary Indicators (minimum of two required)</b> <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="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP02

Tree Stratum (Plot size: <u>30 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u><i>Acer negundo</i></u>	<u>25</u>	<u>Yes</u>	<u>FAC</u>
2. <u><i>Ulmus americana</i></u>	<u>7</u>	<u>Yes</u>	<u>FACW</u>
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>32</u> =Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u><i>Rhamnus cathartica</i></u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>
2. <u><i>Celtis occidentalis</i></u>	<u>12</u>	<u>Yes</u>	<u>FAC</u>
3. <u><i>Ribes americanum</i></u>	<u>8</u>	<u>No</u>	<u>FACW</u>
4. <u><i>Fraxinus pennsylvanica</i></u>	<u>7</u>	<u>No</u>	<u>FACW</u>
5. <u><i>Cornus racemosa</i></u>	<u>5</u>	<u>No</u>	<u>FAC</u>
6. _____	_____	_____	_____
7. _____	_____	_____	_____
	<u>52</u> =Total Cover		
Herb Stratum (Plot size: <u>5 ft</u> )	Absolute % Cover	Dominant Species?	Indicator Status
1. <u><i>Poa pratensis</i></u>	<u>60</u>	<u>Yes</u>	<u>FACU</u>
2. <u><i>Carex blanda</i></u>	<u>10</u>	<u>No</u>	<u>FAC</u>
3. <u><i>Glechoma hederacea</i></u>	<u>10</u>	<u>No</u>	<u>FACU</u>
4. <u><i>Elymus repens</i></u>	<u>5</u>	<u>No</u>	<u>FACU</u>
5. <u><i>Plantago rugelii</i></u>	<u>5</u>	<u>No</u>	<u>FAC</u>
6. <u><i>Taraxacum officinale</i></u>	<u>2</u>	<u>No</u>	<u>FACU</u>
7. <u><i>Daucus carota</i></u>	<u>1</u>	<u>No</u>	<u>UPL</u>
8. <u><i>Parthenocissus quinquefolia</i></u>	<u>1</u>	<u>No</u>	<u>FACU</u>
9. <u><i>Oxalis stricta</i></u>	<u>1</u>	<u>No</u>	<u>FACU</u>
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
	<u>95</u> =Total Cover		
Woody Vine Stratum (Plot size: _____ )	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
	_____ =Total Cover		

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

**Prevalence Index worksheet:**

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____
Prevalence Index = B/A = _____	

**Hydrophytic Vegetation Indicators:**

   1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

   3 - Prevalence Index is ≤3.0<sup>1</sup>

   4 - 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 or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes X No   

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



## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Scheffler Property Wetland Delineation City/County: Stoughton, Dane Sampling Date: 06/01/23  
 Applicant/Owner: Dave Scheffler State: WI Sampling Point: DP03  
 Investigator(s): Matt Parsons, Jack Krebs Section, Township, Range: Section 18, Township 6 North, Range 11 East  
 Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 1  
 Subregion (LRR or MLRA): LRR K Lat: 42.980952572758994 Long: -89.2451046444356 Datum: WGS 84  
 Soil Map Unit Name: Houghton muck 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="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<b>Is the Sampled Area within a Wetland?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation analysis for this region and time period resulted in a weighted condition value sum of 8 indicating hydrologic conditions are drier than normal. Soil disturbed due to presence of historic fill, considered the normal circumstance since fill was likely placed several decades ago.	

### HYDROLOGY

<b>Wetland Hydrology Indicators:</b> Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two 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 on 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 checked="" type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>26</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>24</u> (includes capillary fringe)	<b>Wetland Hydrology Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

**VEGETATION** – Use scientific names of plants.

Sampling Point: DP03

	Absolute % Cover	Dominant Species?	Indicator Status																	
<b>Tree Stratum</b> (Plot size: <u>30 ft</u> )																				
1. <u><i>Acer saccharinum</i></u>	<u>30</u>	<u>Yes</u>	<u>FACW</u>	<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>5</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u><i>Acer negundo</i></u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
3. _____																				
4. _____																				
5. _____																				
6. _____																				
7. _____																				
	<u>50</u>	=Total Cover		<b>Prevalence Index worksheet:</b> <table style="width:100%; border:none;"> <tr> <td style="width:50%; text-align:center;">Total % Cover of:</td> <td style="width:50%; text-align:center;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = _____</td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
Total % Cover of:	Multiply by:																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15 ft</u> )																				
1. <u><i>Acer negundo</i></u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
2. <u><i>Fraxinus pennsylvanica</i></u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u><i>Rhamnus cathartica</i></u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
4. <u><i>Cornus alba</i></u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. <u><i>Juglans nigra</i></u>	<u>2</u>	<u>No</u>	<u>FACU</u>																	
6. _____																				
7. _____																				
	<u>42</u>	=Total Cover		<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - 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)																
<b>Herb Stratum</b> (Plot size: <u>5 ft</u> )																				
1. <u><i>Phalaris arundinacea</i></u>	<u>70</u>	<u>Yes</u>	<u>FACW</u>																	
2. <u><i>Glechoma hederacea</i></u>	<u>20</u>	<u>No</u>	<u>FACU</u>																	
3. <u><i>Impatiens capensis</i></u>	<u>20</u>	<u>No</u>	<u>FACW</u>																	
4. <u><i>Solidago gigantea</i></u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
9. _____																				
10. _____																				
11. _____																				
12. _____																				
	<u>115</u>	=Total Cover		<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.																
<b>Woody Vine Stratum</b> (Plot size: _____ )																				
1. _____																				
2. _____																				
3. _____																				
4. _____																				
				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																

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



**SOIL**

Sampling Point: DP03

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>		
0-6	10YR 3/2	100					Sandy	Potential historic fill
6-12	10YR 4/2	90	5YR 4/6	10	C	M	Loamy/Clayey	Potential historic fill
12-25	10YR 2/1	100					Mucky Sand	Buried A horizon
25-28	10YR 5/2	100					Sandy	

<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:		Indicators for Problematic Hydric Soils <sup>3</sup> :	
<input type="checkbox"/> Histosol (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"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R)	
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> High Chroma Sands (S11) (LRR K, L)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)	
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Redox Depressions (F8)	<input type="checkbox"/> Red Parent Material (F21)	
<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> Marl (F10) (LRR K, L)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)	
<input type="checkbox"/> Stripped Matrix (S6)		<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Dark Surface (S7)			

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

<b>Restrictive Layer (if observed):</b> Type: _____ Depth (inches): _____	<b>Hydric Soil Present?</b> Yes <u>X</u> No _____
---	---

Remarks:



## **Appendix C. Site Photographs**





**Photo 1. DP01 looking southwest at upland area (June 1, 2023).**



**Photo 2. DP02 looking northeast at upland area (foreground) and offsite wetland (background) (June 1, 2023).**



**Photo 3. DP03 looking northeast at upland area (June 1, 2023).**



**Photo 4. Photo-point 01 looking northeast at offsite wetland (June 1, 2023).**



**Photo 5. Photo-point 02 looking north at offsite wetland (June 1, 2023).**



**Photo 6. Photo-point 03 looking northeast (June 1, 2023).**





**Photo 7. Photo-point 03 looking southeast (June 1, 2023).**



**Photo 8. Photo-point 03 looking southwest (June 1, 2023).**



**Photo 9. Photo-point 03 looking northwest (June 1, 2023).**



**Photo 10. Photo-point 04 looking northeast (June 1, 2023).**



**Photo 11. Photo-point 04 looking southeast (June 1, 2023).**



**Photo 12. Photo-point 04 looking southwest (June 1, 2023).**





**Photo 13. Photo-point 04 looking northwest (June 1, 2023).**