Dane County Rezone & Conditional Use Permit

Application Date	Petition Number	
12/08/2017	DCPREZ-2017-11244	
Public Hearing Date	C.U.P. Number	
02/27/2018		

ОИ	VNER INFORMAT	ION		A	GENT INFORMATIO	N
OWNER NAME PETE ANDRINGA		PHONE (wit Code) (608) 83		GENT NAME IUSTIN LESSNER		PHONE (with Area Code) (608) 692-6912
BILLING ADDRESS (Number 2424 NORA RD	& Street)		A	DDRESS (Number & Street 1532 SCENIC VIEV	v) V RD	
(City, State, Zip) COTTAGE GROVE,	WI 53527			City, State, Zip) WINDSOR, WI 535	98	
E-MAIL ADDRESS				-MAIL ADDRESS LESSNERJ@GMAI	L.COM	
ADDRESS/LO	OCATION 1	AL	DDRESS/L	OCATION 2	ADDRESS/L	OCATION 3
ADDRESS OR LOCATIO	N OF REZONE/CUP	ADDRESS	OR LOCATIO	ON OF REZONE/CUP	ADDRESS OR LOCATI	ON OF REZONE/CUP
RIDGE RD						400000000000000000000000000000000000000
TOWNSHIP COTTAGE GROV	E SECTION 23	TOWNSHIP		SECTION	TOWNSHIP	SECTION
PARCEL NUMBER	RS INVOLVED	PAR	CEL NUMBE	RS INVOLVED	PARCEL NUMBE	RS INVOLVED
0711-231-	8500-3					
REA	ASON FOR REZON	E			CUP DESCRIPTION	
FROM DISTRICT:	TO DIST	RICT:	ACRES	DANE COUNTY C	ODE OF ORDINANCE SEC	CTION ACRES
A-1Ex Exclusive Ag District	A-2 (4) Agrice District	ulture	4.56		æ	, /
C.S.M REQUIRED?	PLAT REQUIRED?		STRICTION UIRED?	INSPECTOR'S INITIA	LS SIGNATURE:(Owner	or Agent)
☑ Yes ☐ No	Yes No	Yes Applicant Ini		НЈН3	PRINT NAME:	Mn
					JUSTIN 10 DATE: 12/8/19	

Form Version 03.00.03



PLANNING

DEVELOPMENT

Zoning Change Application

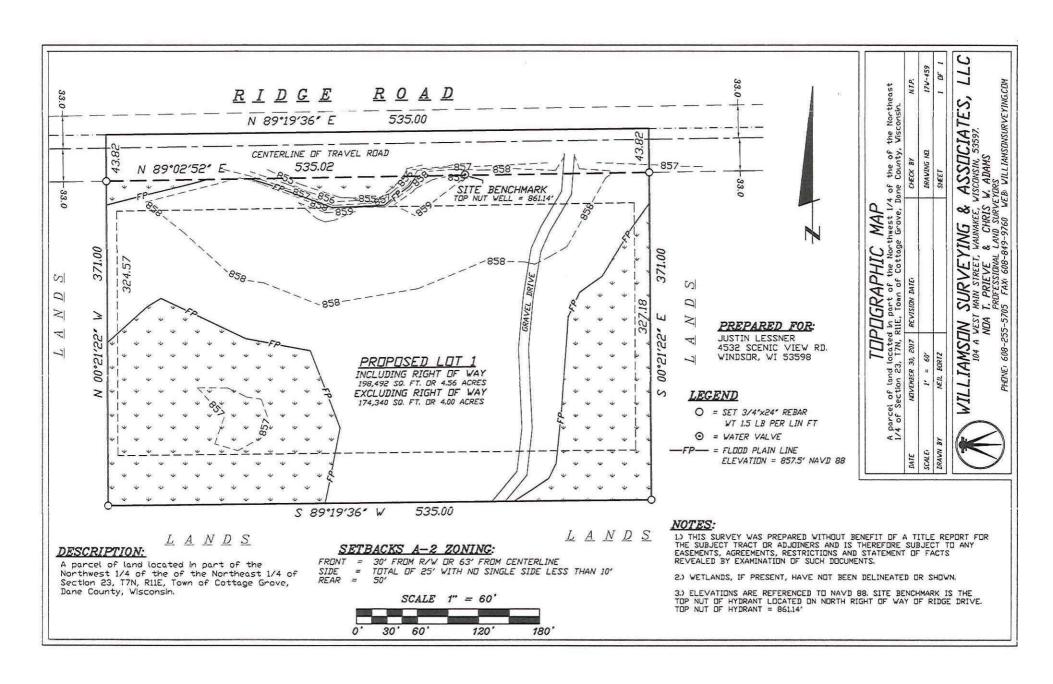
Zoning Division
Room 116, City-County Building
210 Martin Luther King Jr. Blvd.
Madison, Wisconsin 53703-3342

Phone: (608) 266-4266 Fax: (608) 267-1540

Items that must be submitted with your application:

- Written Legal Description of the proposed Zoning Boundaries Legal description of the land that is proposed to be changed. The description may be a lot in a plat, Certified Survey Map, or an exact metes and bounds description. A separate legal description is required for <u>each</u> zoning district proposed. The description shall include the area in acres or square feet.
- Scaled Drawing of the location of the proposed Zoning Boundaries
 The drawing shall include the existing and proposed zoning boundaries of the property. All existing buildings shall be shown on the drawing. The drawing shall include the area in acres or square feet.

Owner's Name Peter Andringa Ager	nt's Name Justin & Sara Lessner
Address 2424 Nora Rd. CottageGroveAddr	
Phone (W), 53527 Phone	windson WI 53598
608-839-5446	608-692-6912-/608-444-330
Email Ema	" Lessner; Ogmail.com
TownCottage GVOVEParcel numbers affected: 0711	231-8500-3
Section: 01 Property address or location: 19	13 Ridge Rd., Cottage Grove
Zoning District change: (To / From / # of acres) From A	
Soil classifications of area (percentages) Class I soils:	% Class II soils:% Other: %
Narrative: (reason for change, intended land use, size of farm, time O Separation of buildings from farmland O Creation of a residential lot O Compliance for existing structures and/or land uses Other:	schedule)
Land use: Home and out build	ing
711	
I authorize that I am the owner or have permission to act on behalf of the owner of the	e property. Date: 12/8/17
Submitted By:	



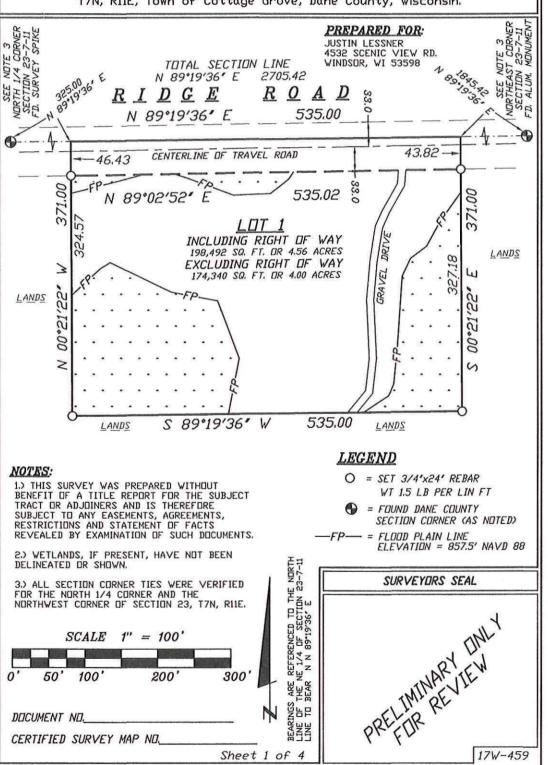


CERTIFIED SURVEY MAP

WILLIAMSON SURVEYING AND ASSOCIATES, LLC

NOA T. PRIEVE & CHRIS W. ADAMS, PROFESSIONAL LAND SURVEYORS 104 A WEST MAIN STREET, WAUNAKEE, WISCONSIN, 53597 PHONE: 608-255-5705

Located in part of the Northwest 1/4 of the Northeast 1/4 of Section 23, T7N, R11E, Town of Cottage Grove, Dane County, Wisconsin.





CERTIFIED SURVEY MAP WILLIAMSON SURVEYING AND ASSOCIATES, LLC

NOA T. PRIEVE & CHRIS W. ADAMS, PROFESSIONAL LAND SURVEYORS

104 A WEST MAIN STREET, WAUNAKEE, WISCONSIN, 53597 PHONE: 608-255-5705

Located In part of the Northwest 1/4 of the Northeast 1/4 of Section 23, T7N, R11E, Town of Cottage Grove, Dane County, Wisconsin.

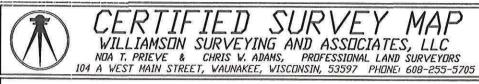
SURVEYOR'S CERTIFICATE

I, Noa T. Prieve, Professional Land Surveyor hereby certify that this survey is correct to the best of the professional surveyor's knowledge and belief and is in full compliance with the provisions of Chapter A-E 7 and Chapter 236.34 Wisconsin Statutes, the subdivision regulations of Dane County, and by the direction of the owners listed below, I have surveyed, divided, and mapped a correct representation of the exterior boundaries of the land surveyed and the division of that land, being part of the Northwest 1/4 of the Northeast 1/4 of Section 23, T7N, RIIE, Town of Cottage Grove, Dane County, Wisconsin, more particularly described as follows:

Commencing at the North 1/4 corner of said Section 23; thence N 89*19'36' E along the North line of the Northeast 1/4, 325.00 feet to the point of beginning.

thence continue N 89°19'36' E along said North line, 535.00 feet; thence S 00°21'22' E, 371.00 feet; thence S 89°19'36' W, 535.00 feet; thence N 00°21'22' W, 371.00 feet to the point of beginning. This parcel contains 198,482 sq. ft. or 4.56 acres and is subject to a road right of way over the northerly side thereof.

Williamson Surveying and Associates, LLC by Noa T. Prieve & Chris W. Adams	
Date	
	oa T. Prieve S-2499
Pr	rofessional Land Surveyor
OWNERS' CERTIFICATE:	~
As owner, We hereby certify that we caused the lasurvey map to be surveyed, divided and mapped as survey map. We also certify that this certified su 75.17(1)(a), Dane County Code of Ordinances, to be so Zoning and Land Regulation Committee for approval.	represented on the certified crvey map is required by sec.
WITNESS the hand seal of sald owners this	_day of,20
Justin R. Lessner Sara J	l Lessner
STATE OF WISCONSIN) DANE COUNTY) Personally came before me this day of Justin R. Lessner and Sara J. Lessner to me known the person who executed the foregoing	to be
Instrument and acknowledge the same.	SURVEYORS SEAL
County, Wisconsin. My commission expires Notary Public	PRELIMINARY CINLY PRELIMINARY INLY
Print Name	4, 4,
Print Name Sheet 2 of 3	17W-459



Located In part of the Northwest 1/4 of the Northeast 1/4 of Section 23, T7N, R11E, Town of Cottage Grove, Dane County, Wisconsin.

	1
	1
TOWN BOARD RESOLUTION	
Resolved that this certified survey map is hereby	acknowledged and approved by
the Town of Cottage Grove on thisday o	r, 20,
Kim Baniga Town Cler	
NOTE:	
REFER TO BUILDING SITE INFORMATION CONTAINED IN	THE DANE COUNTY SOIL SURVEY.
	o various anticolorum excelutation in Fundami alla in in in income
	ll l
DANE COUNTY APPROVAL	
Approved for recording per Dane County Zoning action on	and Land Regulation Committee
Paydal France	
Danlel Evers Assistant Zo	oning Administrator
REGISTER OF DEEDS:	
Received for recording this day of recorded in Volume of Dane County Certi	, 20 at o'clock,M. and
through	fled Surveys on pages
	SURVEYORS SEAL
	J
Kristi Chlebowski	1
Register of Deeds	
	NR JEW
	WINGTIE
DECIMENT AG	CLUB K
DOCUMENT NO.	bkrkon
CERTIFIED SURVEY MAP NO	PRELIMINARY CINLY PRELIMINARY INLY
Sheet 3 of 3	17W-459

Assured Wetland Delineation Report

Ridge Road
Town of Cottage Grove,
Dane County, Wisconsin
Stantec Project #: 193705554
Lead Delineator: Jeff Kraemer



Prepared for: Justin and Sara Lessner 4532 Scenic View Road Windsor, WI 53598

Prepared by: Stantec Consulting Services Inc. 209 Commerce Parkway, PO Box 128 Cottage Grove, Wisconsin 53527 Phone: (608) 839-1998 Fax: (608) 839-1995

Sign-off Sheet

This document entitled Assured Wetland Delineation Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Justin and Sara Lessner (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by

(signature)

Kate Remus, Environmental Scientist, WPIT

Reviewed by

(signature)

Joshua Sulman, Environmental Scientist

Reviewed by

(signature)

Jeff Kraemer, Principal

Table of Contents

1.0	INTRODUC	CTION	.1.1
2.0	METHODS		.2.2
2.1	WETLAND	S	2.2
3.0	RESULTS		.3.3
3.1		RIPTION	
3.2		S	
	3.2.1	Wetland 1	3.4
	3.2.2	Wetland 2	
		Wetland 3	
3.3			
3.4	OTHER EN	VIRONMENTAL CONSIDERATIONS	3.7
4.0	CONCLUS	ION	.4.9
5.0	REFERENC	ES5	5.10
LIST OI	FTABLES		
Table	1. Summar	y of Soils Identified within the Study Area	3.3
Table :	2. Summa	ry of Wetlands Identified within the Study Area	3.4
LIST OI	F APPENDIC	CES	
APPEN	DIX A	- FIGURES	A .1
APPEN	IDIX B	- WETLAND DETERMINATION DATA FORMS	B.2
APPEN	IDIX C	- SITE PHOTOGRAPHS	C.3
APPEN	DIX D	- WETS ANALYSIS	D.4
APPEN	IDIX E	- DELINEATOR QUALIFICATIONS	.E.5



Ridge Road INTRODUCTION November 27, 2017

1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec) performed a wetland determination and delineation of a 40-acre parcel on Ridge Road (the "Study Area") on behalf of Justin and Sara Lessner. A preliminary wetland determination was completed for the Study Area in April 2017 by Joshua Sulman of Stantec. The wetland delineation was led by Jeff Kraemer of Stantec, an assured delineator qualified via the Wisconsin Department of Natural Resources (WDNR) Wetland Delineation Assurance Program, on September 20, 2017 (see Appendix E for Delineator Qualifications).

The Study Area is located in Section 23, Township 7 North, Range 11 East, Town of Cottage Grove, Dane County, Wisconsin. Specifically, the Study Area is located south of Ridge Road, southeast of the intersection of Ridge Road and Savage Court. The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area. Three wetland areas were identified within the Study Area.

Wetlands and waterways may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers (USACE), state regulation under the jurisdiction of the Wisconsin DNR, and local regulation under jurisdiction of the local county, town, city, or village. Stantec recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review and concurrence. Delineations completed by a WDNR Assured Delineator do not need to obtain WDNR concurrence.

Ridge Road METHODS November 27, 2017

2.0 METHODS

2.1 WETLANDS

Wetland determinations were based on the criteria and methods outlined in the U.S. Army Corps of Engineers Wetlands Delineation Manual, Technical Report Y-87-1 (1987) and subsequent guidance documents, and applicable Regional Supplements to the Corps of Engineers Wetland Delineation Manual.

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

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

As recent weather patterns influence the visibility and presence of some wetland hydrology indicators, the antecedent precipitation in the three months leading up to the field investigation was reviewed. The current year's precipitation data were compared to long-term (30-year) precipitation averages and standard deviation to determine if precipitation was normal, wet, or dry for the area using a WETS analysis as developed by the NRCS.



Ridge Road RESULTS November 27, 2017

3.0 RESULTS

3.1 SITE DESCRIPTION

The Study Area is comprised of upland woodland, wooded wetland, and wet meadow wetland. The Study Area is relatively flat, sloping to the southeast from topographic highs of approximately 860 feet mean sea level (msl) in the northwest corner of the site to approximately 854 feet msl in the southeast corner. The Study Area is bordered by Ridge Road to the north; additional wetland to the east and south; and an active agricultural field to the west.

Soils present within the Study Area and their hydric status are summarized in Table 1. Wetlands identified during the field investigation are located primarily within areas mapped as hydric, very poorly drained and partially hydric, somewhat poorly drained soils (Appendix A, Figures 2 and 3).

Table 1. Summary of Soils Identified within the Study Area

Soll symbol: Soll Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
Ad: Adrian muck	Adrian	100	Depressions on stream terraces	Yes
HaA: Hayfield silt loam, 0 to 3 percent slopes	Hayfield	100	Outwash plains	No
	Marshan		Depressions	Yes
Ho: Houghton muck	Houghton	100	Depressions on stream terraces	Yes

The WWI map identifies one wetland area within the approximate southeast half of the Study Area; the WWI wetland extends beyond the Study Area to the south and east (Appendix A, Figure 4). The field delineated southeastern wetland (W-1) is located within the same vicinity as the wetland area identified on the WWI map. The field delineated northwestern wetland (W-2) and north wetland (W-3) are not identified on the WWI map (Appendix A, Figure 5).

Average precipitation for the investigation area was obtained from the Dane County Regional Airport weather station and used for the WETS analysis. A total of 17.10 inches of precipitation occurred from June 1 – August 31, 2017 compared to the long-term average of 12.73. Based on the WETS analysis, conditions were wetter than normal from June – August 2017 (Appendix D). However, only 0.16 inch of precipitation was received from September 1 – September 19 prior to the field investigation on September 20, 2017. Climatic conditions were drier than normal in the first half of September, likely affecting hydrologic conditions on site during the field investigation.

3.2 WETLANDS

Three wetlands were identified and delineated within the Study Area. Wetland determination data forms were completed for eight sample points along transects through the wetlands and adjacent uplands and are contained in Appendix B. Photographs of the wetlands and



Ridge Road RESULTS November 27, 2017

adjacent lands are contained in Appendix C. The wetland boundary and sample point locations are shown on Figure 5 (Appendix A). The wetlands are summarized in Table 2 below and described in detail in the following sections.

Table 2. Summary of Wetlands Identified within the Study Area

Wetland	Wetland Type (WWI Class)	Adjacent Surface Waters	Acreage (on-site)
Wetland 1 (W-1)	Wet meadow, shrub-carr (E1K, E1H, E1K, T3K)	Unnamed tributary that connects to Koshkonong Creek	26.58 acres
Wetland 2 (W-2)	Wooded wetland	No direct inlets or outlets observed.	2.22 acres
Wetland 3 (W-3)	Wet meadow	Connected via culvert to wetland north of Ridge Road.	0.03 acre

3.2.1 Wetland 1

Wetland 1 (W-1) is part of an extensive wetland complex that continues beyond the Study Area to the southwest, south, and east and includes wet meadow, sedge meadow, shrub-carr, and hardwood swamp communities. W-1 is directly connected to an unnamed ditched perennial tributary that flows north and connects to Koshkonong Creek. The perennial tributary is located along the entire eastern boundary and east half of the southern boundary of the Study Area and is identified on the 24k hydro layer mapped by USGS (Appendix A, Figure 1) and visible in the WDNR 24k hydrography layer (Appendix A, Figure 4).

Vegetation

Dominant plant species identified at sample points completed within W-1 consist of reed canary grass (*Phalaris arundinacea*, FACW), big bluestem (*Andropogon gerardii*, FACU), prairie cordgrass (*Spartina pectinata*, FACW), Canadian clearweed (*Pilea pumila*, FACW), gray dogwood (*Cornus racemosa*, FAC), and box elder (*Acer negundo*, FAC). Other common species identified in the wetland are listed on the data forms contained in Appendix B. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally saturated hydroperiod along the outer margin and a seasonally inundated/perennially saturated hydroperiod within the central part of the wetland. Primary indicators of hydrology were not observed during the field investigation; however, secondary indicators of wetland hydrology observed included Geomorphic Position (D2) and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Adrian muck (Ad), Houghton muck (Ho), and Hayfield silt loam (HaA) (Appendix A, Figure 2). The soils observed at the sample points were generally consistent with the Hayfield series characteristics as silty clay loam textures were observed. Field indicators of hydric soil identified at sample points within W-1 consisted of NRCS



Ridge Road RESULTS November 27, 2017

field Indicators A11-Depleted Below Dark Surface and F3-Depleted Matrix. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a wet meadow wetland community or shrub-carr community dominated by hydrophytes to a mesic woodland upland community generally dominated by non-hydrophytes including bur oak (Quercus macrocarpa, FACU), black cherry (Prunus serotina, FACU), invasive honeysuckle (Lonicera x bella, FACU), common buckthorn (Rhamnus cathartica, FAC), and timothy (Phleum pretense, FACU); 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions. Sample point P-1 did meet NRCS hydric soil indicator A11-Depleted Below Dark Surface, but the higher topography, lack of wetland hydrology, and lack of dominance by hydrophytic vegetation supports the upland determination. The transition from wetland to upland characteristics generally correlated with a subtle topographic break.

3.2.2 Wetland 2

Wetland 2 (W-2) is a seasonally inundated shallow depression within the wooded portion of the Study Area. W-2 appears to be isolated and no direct surface water connections were observed in the field and none are identified on the 24k hydro layer mapped by USGS (Appendix A, Figure 1) or the WDNR 24k hydrography layer (Appendix A, Figure 4).

Vegetation

Dominant plant species identified at sample points completed within W-2 consist of quaking aspen (*Populus tremuloides*, FAC), common buckthorn (FAC), and white avens (*Geum canadense*, FAC). Other common species identified in the wetland are listed on the data forms contained in Appendix B. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally saturated hydroperiod at the margin with seasonal inundation in the central portion of the wetland. No primary indicators of wetland hydrology were observed during the September 2017 field investigation, but during the wetland determination field visit completed in April 2017, Surface Water (A1), High Water Table (A2) and Saturation (A2) within the upper 12 inches of the soil surface were observed. Only one secondary indicator of wetland hydrology, Geomorphic Position (D2), was observed in September 2017. W-2 is located within a shallow depression and a distinct difference between the vegetation within the wetland and adjacent upland woodland was observed, primarily the lack of oak species within the wetland area. With supporting evidence provided from hydrophytic vegetation and hydric soil indicators, and considering the ephemeral hydrology, it was determined that the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Hayfield silt loam (HaA) (Appendix A, Figure 2). The soils observed at the sample points were generally consistent with the Hayfield series



Ridge Road RESULTS November 27, 2017

characteristics. Field indicators of hydric soil identified within W-2 consisted of NRCS field Indicators A11-Depleted Below Dark Surface and F3-Depleted Matrix. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a wooded wetland community dominated by hydrophytic species to a mesic woodland upland community dominated by black cherry (FACU) and bur oak (FACU) with common disturbance driven species within the understory; 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions. The transition from wetland to upland characteristics generally correlated with a subtle topographic break.

3.2.3 Wetland 3

Wetland 3 (W-3) is a wet meadow community adjacent to Ridge Road at the northern boundary of the Study Area. The wetland appears to be connected via a culvert to WWI mapped wetland north of Ridge Road. No surface waterbodies as identified on the 24k hydro layer mapped by USGS (Appendix A, Figure 1) or the WDNR 24k hydrography layer (Appendix A, Figure 4) are immediately adjacent to W-3. However, the wetland area north of Ridge Road is directly adjacent to Koshkonong Creek.

Vegetation

Dominant plant species identified at sample points completed within W-3 consist of reed canary grass (FACW). Other species identified in the wetland are listed on the data forms contained in Appendix B. The dominant species within the wetland are comprised mostly of hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

The wetland appears to have a seasonally inundated/saturated hydroperiod within the central portion and a seasonally saturated hydroperiod along the outer margin. Saturation within the upper 12 inches (A3) was observed as a primary indicator of wetland hydrology. Secondary indicators of wetland hydrology observed included Dry-Season Water Table (C2), Geomorphic Position (D2), and a positive FAC-Neutral Test (D5). Therefore, the wetland hydrology criterion was met.

Soils

Soils within the wetland are mapped by the NRCS as Hayfield silt loam (HaA) (Appendix A, Figure 2). The soils observed at the sample points were generally consistent with the Hayfield series characteristics. Field indicators of hydric soil identified within W-3 included NRCS field Indicators A11-Depleted Below Dark Surface and F3-Depleted Matrix. Therefore, the hydric soil criterion was satisfied.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils, and topography consisting of the following: 1) Transition from a wet meadow wetland



Ridge Road RESULTS November 27, 2017

community dominated by hydrophytes to a mesic woodland upland community dominated by black cherry (FACU), bur oak (FACU), invasive honeysuckle (FACU), and common buckthorn (FAC); 2) Transition from an area exhibiting wetland hydrology indicators within the wetland to a lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from soils exhibiting hydric soil indicators to soils lacking indicators of hydric soil conditions. The transition from wetland to upland characteristics generally correlated with a moderate to well-defined topographic break.

3.3 UPLANDS

Upland within the Study Area consisted of disturbed mesic woodland dominated by oaks and black cherry in the canopy with an understory dominated by invasive shrubs including invasive honeysuckle and common buckthorn. Herbaceous coverage was minimal to absent at sample points P-3, P-6, and P-7, likely due to the abundance of honeysuckle and common buckthorn in the shrub layer. Where present, groundlayer species included white avens (FAC), common blue violet (Viola sororia, FAC), common buckthorn (FAC) seedlings, and motherwort (Leonurus cardiaca, UPL). While FAC species were commonly seen, these are typical species of a range of wetland and upland disturbed sites, and are not necessarily indicative of wetland conditions. Sample point P-1 was placed within a small upland meadow, adjacent to an old shed. Common species within the opening included timothy (Phleum pretense, FACU), red fescue (Festuca rubra, FACU), and common milkweed (Asclepias syriaca, UPL) present in the herbaceous layer. The majority of the disturbed mesic woodland in the Study Area was determined to be non-wetland based on the lack of wetland hydrology, hydric soils, and/or hydrophytic vegetation.

3.4 OTHER ENVIRONMENTAL CONSIDERATIONS

This report is limited to the identification of state and/or federally regulated wetlands within the Study Area. However, there may be other regulated environmental features within the Study Area, including, but not limited to, historical or archeological features, endangered or threatened species, navigable waters, and/or floodplains, etc. Federal, state, and local units of government and regional planning organizations may have regulatory authority to control or restrict land uses within or in close proximity to these features. Stantec can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

Specifically, in the state of Wisconsin, Wis. Adm. Code NR 151.12 requires that a "protective area" or buffer be determined from the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands. In accordance with NR 151.12, the width of the "protective area" for less susceptible wetlands is determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. Moderately susceptible wetlands, lakes, and perennial and intermittent streams identified on USGS topographic maps or NRCS county soil survey maps (whichever is more current) require a protective buffer of 50 feet, and outstanding or exceptional resource waters, highly susceptible wetlands, and wetlands in areas of special natural resource interest require protective buffers of 75 feet. The wetlands identified within the Study Area are dominated by invasive plant species including reed canary grass and common buckthorn. Therefore, based on the "protective buffer" standards provided by NR 151.12, it is



Ridge Road RESULTS November 27, 2017

Stantec's professional opinion that wetlands meet the criteria for less susceptible wetlands and the buffer from the wetland boundary would be 10 to 30 feet. However, the jurisdictional authority on wetland buffers rests with the WDNR. Local zoning authorities and/or a regional planning organization may have more restrictive buffers from wetlands than that imposed under NR 151. For example, Dane County typically enforces a 75-foot wetland setback.



Ridge Road CONCLUSION November 27, 2017

4.0 CONCLUSION

Stantec performed a wetland determination and delineation of an approximately 40-acre parcel on Ridge Road on behalf of Justin and Sara Lessner. The Study Area is located in Section 23, Township 7 North, Range 11 East, Town of Cottage Grove, Dane County, Wisconsin. The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Study Area.

Three wetlands were identified and delineated within the Study Area in accordance with state and federal guidelines and were subsequently surveyed with GPS and mapped using GIS software. There was a combined total of 28.8 acres of wetlands within the Study Area. Wetlands were mostly composed of wet meadow, shrub-carr, and wooded wetland. Adjacent uplands were composed of agricultural lands and mesic woods.

The wetlands identified for this report may be subject to federal regulation under the jurisdiction of USACE, state regulation under the jurisdiction of the WDNR, and local regulation under jurisdiction of the local county, town, city, or village. Stantec recommends this report be submitted to local authorities, the WDNR, and USACE for final jurisdictional review and concurrence.

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

The information provided by Stantec regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present within the Study Area at the time of the fieldwork. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the Study Area can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands within the Study Area.



Ridge Road REFERENCES November 27, 2017

5.0 REFERENCES

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

Lichvar, R.W., D. L. Banks, W. N. Kirchner, and N.C. Melvin. 2016. *The National Wetland Plant List*: 2016 wetland ratings. Phytonueron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X. http://www.phytoneuron.net/.

Midwestern Regional Climate Center. (2017). *cli-MATE* [climate data access tool]. Retrieved from http://mrcc.isws.illinois.edu/CLIMATE/.

National Oceanic and Atmospheric Administration. (2017). Regional Climate Centers Applied Climate Information System. WETS table. Retrieved from http://agacis.rcc-acis.org.

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database. Available online at http://websoilsurvey.nrcs.usda.gov/ or http://datagateway.nrcs.usda.gov/. Accessed [8/2/2017].

Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed [8/2/2017].

U.S. Army Corps of Engineers (USACE) and Wisconsin Department of Natural Resources (WDNR). "Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources", Issued March 4, 2015. Available online at http://dnr.wi.gov/topic/wetlands/documents/FinalWisconsinDelineationGuidance.pdf.

USACE. 2016. National Wetland Plant List, version 3.2. USACE Engineer Research and Development Center, Cold Water Regions Research and Engineering Laboratory, Hanover, N.H. Retrieved from http://wetland_plants.usace.army.mil/.

USACE. 2011. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0), ed. J.S. Wakely, R.W. Lichvar, C.V. Nobel, and J. F. Berkowitz. ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

U.S. Department of Agriculture, Natural Resource Conservation Service (USDA, NRCS). 2016. Field Indicators of Hydric Soils in the United States, Version 8.0. L.M. Vasilas, G.W. Hurt, and J.F. Berkowitz (eds.). USDA, NRCS in cooperation with the National Technical Committee for Hydric Soils.

United States Geological Survey (USGS). Wisconsin 7.5 Minute Series (Topographic) Maps. 1:24,000. Reston, VA: United States Department of the Interior, USGS.



Ridge Road REFERENCES November 27, 2017

Wisconsin Department of Natural Resources (WDNR), Bureau of Watershed Management. (2010). [Digital inventory of Wisconsin wetlands]. Wisconsin Wetland Inventory.

WDNR, Division of Water. (2010). [24k hydrography geospatial data layer]. Available online: ttp://dnrftp01.wi.gov/geodata/hydro24k/.



Ridge Road Appendix A– Figures November 27, 2017

Appendix A - Figures

Figure 1. Project Location and Topography

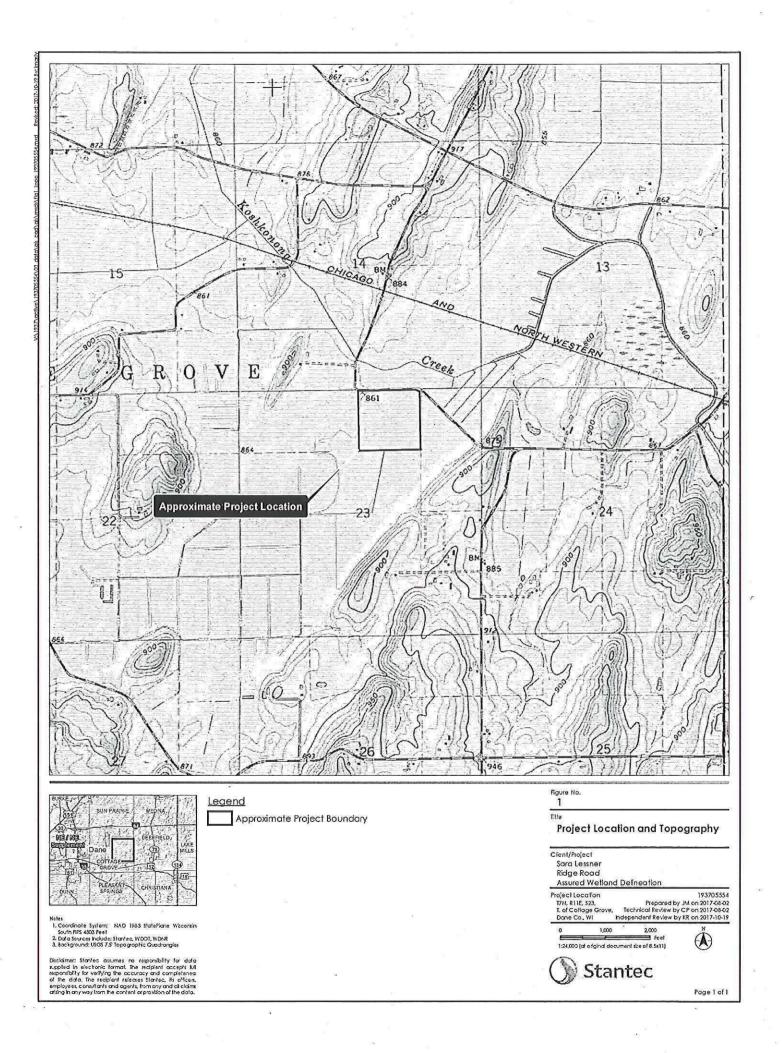
Figure 2. NRCS Soil Survey Data - Hydric Ratings

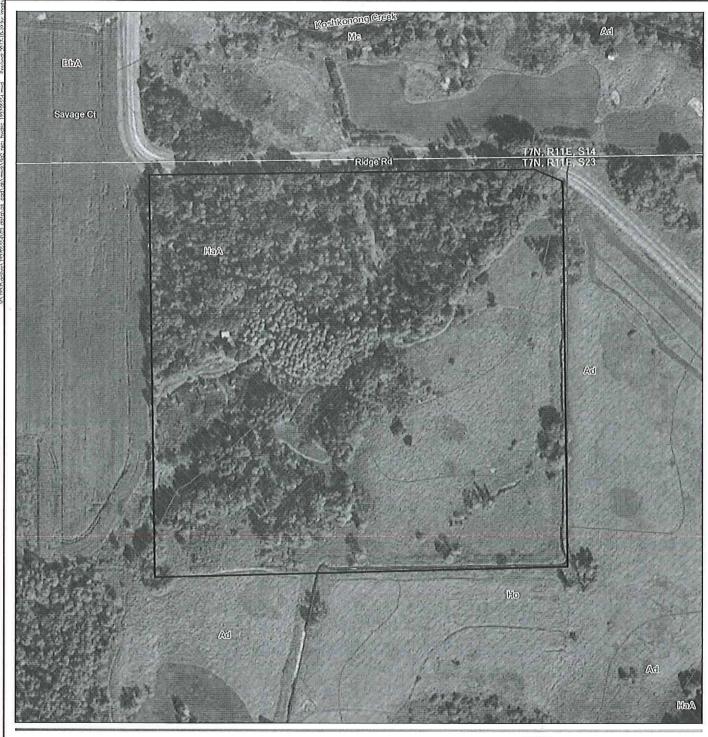
Figure 3. NRCS Soil Survey Data – Wetland Indicator Soils

Figure 4. Wisconsin Wetland Inventory

Figure 5. Field Collected Data









Notes
1. Coordinate System: NAD 1983 StatePlane Wiscorsin South RPS 4903 Feet
2. Data Sources include: Startec, WDOT, WDNR, NRCS
3. Othopholography: 2015 NAP

Disciamer: Starties assumes no responsibility for data supplied in electronic format. The resignent accepts the responsibility or verifying the accuracy and completeness of the data. The resignent releases Starties, it offices, employees, consultants and agents, formany and at claims ording in any way from the control or possible of the data.

Legend

Approximate Project Boundary NRCS Soil Survey Data Hydric Ratings

Predominantly Hydric

Partially Hydric

Non-Hydric

DNR 24k Hydrography

Perennial Stream

Intermittent Streom

3 Waterbody

Figure No.

Ttle

NRCS Soil Survey Data **Hydric Ratings**

Cient/Project Sara Lessner Ridge Road Assured Wetland Delineation

Project Location 17N, R11E, 523, T. of Cottage Grove, Dane Co., WI

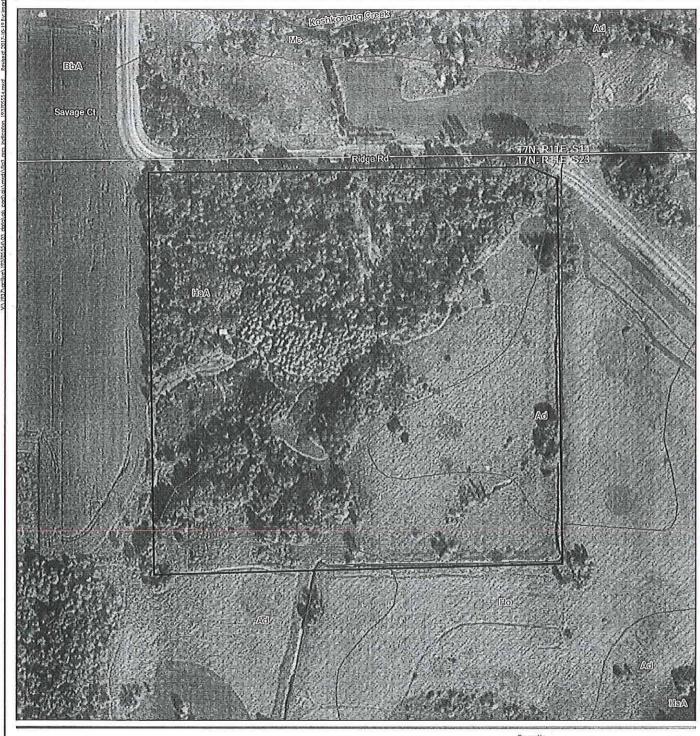
193705554 Prepared by JM on 2017-08-02 Technical Review by CP on 2017-08-02 Independent Review by KR on 2017-10-19

0 150 300 Feet 1:3,600 (at original document size of 8.5 x 11)





Stantec





Notes
1. Coordinate System: NAD 1993 StatePlane Wiscomin South RFS 4303 Feet
2. Data Sources Includes Startec, WDOT, WDNR, NRCS
3. Othophotography; 2015 NAIP

Disclamer: Stanles assumes no responsibility for data supplied in electronic formal. The resigner accepts that responsibility for writing the accuracy and completeness of the data. The recipient releases Stanles, its offices, employees, consultant and agent, formany and a latimal ording in anyway from the content or provision of the data.

Legend

Approximate Project Boundary NRCS Soil Survey Data

Wetland Indicator Soils

Very Poorly Drained

Poorly Drained

Somewhat Poorly Drained

DNR 24k Hydrogrophy

Perennial Stream

Intermittent Stream

Waterbody

NRCS Soil Survey Data Wetland Indicator Soils

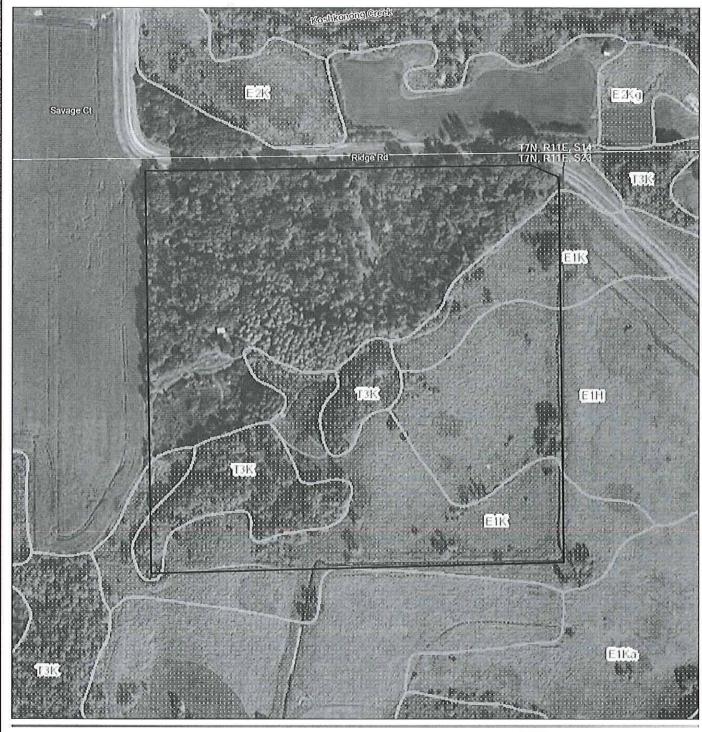
Clent/Project Sara Lessner Ridge Road Assured Wetland Defineation

Project Location 17N, R11E, 523, T. of Coffage Grove, Dane Co., WI

Prepared by JM on 2017-08-02 Technical Review by CP on 2017-08-02 dependent Review by KR on 2017-10-19









Notes

1. Coordinate System: NAD 1783 StatePlane Wisconsin South FFS 433 Feet

2. Data Sources Include: Startec, WDOT, WDNR

3. Othophotography, 2015 NAP

Distriment Stanled assumes no responsibility for data supplied in electronic format, the resigned access studies responsibility to restrying the accuracy and completiones of the data. The resolvent releases Stantes, its offices, employees, consultants and agents, from any and all claims ording in any way from the content or position of the data.

Legend

Approximate Project Boundary WWI Wetland Class Areas

Wetland

DNR 24k Hydrography

Perennial Stream

Intermittent Streom

S Waterbody

Figure No.

Wisconsin Wetland Inventory

C'ent/Project Sara Lessner Ridge Road Assured Wetland Defineation

Project Location 17N, R11E, \$23, T, of Cottage Grove, Dane Co., WI

193705554 Frepared by JM on 2017-08-02 Technical Review by CP on 2017-08-02 Independent Review by KR on 2017-10-19 0 150 300 Feet 1:3:600 (at original document size of 8.5 x 1.1)









Notes
1. Coordinate System: NAD 1983 StateFrane Wiscomin South RFS 4903 Feet
2. Data Sources Include: Startec, WisDOT, WIDNR
3. Orthophotography: 2015 NAP

Disclamer: Stanles assumes no responsibility for data supplied in electronic format. The recipient accepts Ltd responsibility for writing the accuracy and completioness of the data. The recipient releases Stanles, its offices, its offices, employes, consultants and against, bornoury and all claims origing in any way from the content or provision of the data.

Legend

Approximate Project Boundary 2ft Elevation Contour

Sample Point

Field Delineated Wetland

DNR 24k Hydrography

→ Perennial Stream

Intermittent Stream

53 Waterbody

Figure No.

Title

Field Collected Data

Client/Project

Sara Lessner Ridge Road Assured Wetland Delineation

Project Location 17N, R11E, 523, T. of Cottage Grove, Dane Co., WI

193705554 Prepared by JM on 2017-08-02 Technical Review by CP on 2017-08-02 Independent Review by KR on 2017-10-19

0 150 300
Feet
1:3,600 (all original document size of 8.5x11)



Stantec

Page 1 of 1

Ridge Road Appendix B– Wetland Determination Data Forms November 27, 2017

Appendix B – Wetland Determination Data Forms





Landform: Ri Slope (%): 2- Are climatic/hydrol Are Vegetation Are Vegetation SUMMARY OF FIN Hydrophytic Veget Wetland Hydrology Remarks: Ba	ayfield silt k ise 3 logic conditi , Soil , or , Soil , or NDINGS lation Prese y Present? ased on a V	Latitude ions on the site Hydrology s Hydrology n	typical for ignificantly aturally pro the climati	Local	ed? c?	NWI/ Linear N/A (Ifno, explain	WWI Classification in remarks) Are normal circumst X Yes	Datum Yes	K No nt?	State: Wetland ID: Sample Point: Community ID: Section: Township: Range:	Wisconsin W-1 P-1
Landform: Ri Slope (%): 2- Are climatic/hydrol Are Vegetation Are Vegetation Summary OF FIN Hydrophytic Veget Wetland Hydrology Remarks: Becom	ise 3 logic conditi , Soil , or , Soil , or NDINGS lation Prese y Present? ased on a V	Latitude ions on the site Hydrology s Hydrology n	typical for ignificantly aturally pro the climati	this time y disturbe roblemati	ongitude: of year? ed? c?	Linear N/A Y (If no, explain	n in remarks) Are normal circumst	Datum Yes [3 ances preser No	K No nt?	Sample Point Community ID: Section: Township:	P-1
Slope (%): 2- Are climatic/hydrol Are Vegetation Are Vegetation SUMMARY OF FIN Hydrophytic Veget Wetland Hydrology Remarks: Bacco HYDROLOGY Wetland Hydrolo	logic condition, Soil, or Soil, or NDINGS tation Present?	ions on the site Hydrology si Hydrology n int? VETS analysis,	typical for ignificantly aturally pro the climati	this time y disturbe roblemati	ongitude: of year? ed? c?	N/A Y (If no, explain Y	Are normal circumst	Yes Dances preser	K No nt?	Community ID: Section: Township:	
Are climatic/hydrol Are Vegetation Are Vegetation Are Vegetation SUMMARY OF FIN Hydrophytic Veget Wetland Hydrology Remarks: Ba co HYDROLOGY Wetland Hydrolo	logic condition, Soil, or Soil, or Soil, or NDINGS tation Present? ased on a V	ions on the site Hydrology si Hydrology n int? VETS analysis,	typical for ignificantly aturally pro the climati	this time y disturbe oblemati Yes Yes	of year? ed? c? X No	(If no, explain	Are normal circumst	Yes Dances preser	K No nt?	Section: Township:	Upland Woodla
Are Vegetation , Are Vegetation , SUMMARY OF FIN Hydrophytic Veget Wetland Hydrology Remarks: Ba co HYDROLOGY Wetland Hydrolo	, Soil , or , Soil , or NDINGS lation Prese y Present? ased on a V	Hydrology s Hydrology n ent?	ignificantly aturally pro the climati	y disturbe oblemati Yes Yes	ed? c? X No		Are normal circumst	ances preser No	nt?	Township:	23
Are Vegetation , SUMMARY OF FIN Hydrophytic Veget: Wetland Hydrology Remarks: Bacco	, Soil , or NDINGS lation Prese y Present? ased on a V	Hydrology n	aturally protection	oblemati Yes Yes	c? _X No			No	, T. H		7N
SUMMARY OF FIN Hydrophytic Veget: Wetland Hydrology Remarks: Ba co HYDROLOGY Wetland Hydrolo	NDINGS tation Prese y Present? ased on a V	nt? VETS analysis,	the climati	Yes	X No						11E
Hydrophytic Veget: Wetland Hydrology Remarks: Ba co HYDROLOGY Wetland Hydrolo	tation Prese y Present? ased on a V	VETS analysis,	the climati	☐ Yes				Hydric Soils			State of Sta
Wetland Hydrology Remarks: Bacco HYDROLOGY Wetland Hydrolo	y Present? ased on a V	VETS analysis,	the climati	☐ Yes						a secretaria de al	X Yes
Remarks: Bacco HYDROLOGY Wetland Hydrolo	ased on a V				IX NO	the second				Nithin A Wetla	
Wetland Hydrolo			from Sept		ogic cond		e wetter than norma ld investigation.				
	and the Base	and (Obasil has	If to die of		. (457 V	PONT TO F	12/15/20	of Partie		
	ogy indicate	ors (Check here	i indicate	ors are n	ot preser	m/X):			Secondary:		
	1 - Surface W	ater		-	B9 - Wat	er-Stained Le	eaves		Occordery.	B6 - Surface Soil	Cracks
	2 - High Wate					uatic Fauna				B10 - Drainage P	
	3 - Saturation					d Deposits	12002			B16 - Moss Trim	
	1 - Water Mar					ogen Sulfide				C2 - Dry-Season	
	2 - Sediment I 3 - Drift Depos					ence of Red	oheres on Living Roots			C8 - Crayfish But	rows fisible on Aerial Imag
	4 - Algal Mat o						uction in Tilled Soils			D1 - Stunted or S	
	5 - Iron Depos					Muck Surfa				D2 - Geomorphic	
B7	7 - Inundation	Visible on Aerial Ir		Γ	Other (Ex	plain in Rem	arks)			D3 - Shallow Aqu	
I B8	8 - Sparsely V	egetated Concave	Surface							D4 - Microtopogr D5 - FAC-Neutra	
										DO - PAC-NEGUA	rest
Field Observation	-	_				- 1					
Surface Water Pre		Yes X No	Depth:		(in.)	. 8		Wetland Hy	drology Pr	esent?	Yes X No
Water Table Prese	Plant Ave	Yes X No	Depth:		(in.)	1					
Saturation Present	t?	Yes X No	Depth:		(in.)	1	a de la companya della companya della companya de la companya della companya dell	· Francisco (Auto-school sekt	australia alla se	
Describe Recorded	Data (strea	m gauge, monito	ring well. a	aerial pho	tos, previ	ous inspec	tions), if available:	N/A	594		1 78 LA
SOILS Map Unit Name: Taxonomy (Subgro		ayfield silt loam quollic Hapluda	lfs	¥ -4, -		Sei	ries Drainage Class	somewhat p	oorly		š
				rim the absen	e of indicators	(Type C=Conce	ntration, D=Depletion, RM=Reducer	Marrix CS=Covered/C	Coated Sand Grains	Location: PL=Pore Lining	V=V±'x)
	Bottom	3. 4 3.1 3.3 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	T	Matrix		I		TVC 1978 04			
200	Depth	Horizon				1	Re	edox Features	S		Texture
0			Color	(Moist)	%	- 0		dox Features		Location	
U		Partie Call Development		(Moist)	% 100		Color (Moist)	%	Туре	Location	(e.g. clay, sand
12	12	1	10YR	2/2	100	-	Color (Moist)	%	Туре	=	(e.g. clay, sand silty clay lo
12	24	1 2	10YR 10YR	2/2 4/1	100 95	 10YR	color (Moist) 4/6	% 5	Type C	— М	(e.g. clay, sand silty clay lo silty clay lo
13-76	24	1 2 	10YR 10YR	2/2 4/1 -	100 95 —	10YR	Color (Moist) 4/6 	% 5 	Туре С	 M 	(e.g. clay, sand silty clay lo silty clay lo
	24	1 2 	10YR 10YR 	2/2 4/1 	100 95 	10YR	Color (Moist) 4/6	5	Type C	 M 	(e.g. clay, sand silty clay lo silty clay lo
(17)	24	1 2	10YR 10YR 	2/2 4/1 	100 95 	 10YR 	color (Moist) 4/6	% 5 	Type C	M	(e.g. clay, sand silty clay lo silty clay lo
75.	24	1 2	10YR 10YR 	2/2 4/1 	100 95 	 10YR 	4/6 	5	Type C	M 	
55 55 55 55	24	1 2	10YR 10YR 	2/2 4/1 	100 95 	10YR	4/6	5	Type C	M	(e.g. clay, sand silty clay lo silty clay lo
77 77 77 77 77	24	1 2	10YR 10YR 	2/2 4/1	100 95 	 10YR 	4/6	% 5 	Type C	M	(e.g. clay, sand silty clay lo silty clay lo
NRCS Hydric Sol	24	1 2	10YR 10YR 	2/2 4/1 	100 95 	10YR esent)) value Below Dark Surfac	Color (Moist) 4/6 : Surface (URR R. MURA 1459) ands ands ands ards atrix ace	% 5 5 Indicators of by	Type C To Froble A10 - 2 cm I A16 - Coast S3 - 5cm Ms S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron F12 - Iron F12 - Iron F12 - Very Other (Explaid orphyto vegetal	matic Soils 1 Muck (LRR K. L. MLRA Prairie Redox (LR icky Peat of Peat Irface (LRR K. L. M) Le Below Surface irk Surface (LRR K. L. M) Le Below Surface irk Surface (LRR K. L. M) Le Below Surface ir Surface (LRR K. L. M) Le Below Surface ir Surface (LRR K. L. M) Le Below Surface ir Surface (LRR K. L. M) Le Below Surface ir Surface (LRR K. L. M) Le Below Surface ir Surface	(e.g. clay, sand silty clay lo silty clay lo silty clay lo
NRCS Hydric Sol	24	1 2	10YR 10YR 	2/2 4/1 	100 95 	10YR 10YR	Color (Moist) 4/6 : Surface (URR R. MURA 1459) ands ands ands ards atrix ace	% 5 5 Indicators of by	Type C rs for Proble A10 - 2 cm I A16 - Coast S3 - 5cm Ms S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm F21 - Red P TA6 - Mesic TF12 - Very Other (Explatophyto-vepta- bed or oroblema	matic Soils 1 Muck (LRR K. L. MLRA Prairie Redox (LR LOKY Peat of Peat riface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface (LRR K. L. M) LE Below Surface rk Surface Reserved LE Below Surface rk Surface Reserved R	(e.g. clay, sand silty clay lo



VEGETATION Tree Stratum (Pk 1. 2. 3. 4. 5. 6. 7. 8. 9.	(Species identified in all uppercase are non-na lot size: 10 meter radius) <u>Species Name</u> Quercus macrocarpa Prunus serotina	% Cover	Dominant	Ind Status	Down To Wilder
Tree Stratum (Pk 1. 2. 3. 4. 5. 6. 7. 8. 9.	ot size: 10 metér radius) <u>Species Name</u> Quercus macrocarpa Prunus serotina	% Cover	Dominant	to di Otalia	Design To West Land
1. 2. 3. 4. 5. 6. 7. 8.	Species Name Quercus macrocarpa Prunus serotina	30		1-2 01-1-1	D
2. 3. 4. 5. 6. 7. 8.	Quercus macrocarpa Prunus serotina	30			Dominance Test Worksheet
2. 3. 4. 5. 6. 7. 8.	Prunus serotina 		Y	FACU	
3. 4. 5. 6. 7. 8. 9.		2	N	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
4. 5. 6. 7. 8. 9.	Page 2	-	0000		AND THE PROPERTY OF THE SECOND ACCORDANCE OF THE SECOND ASSESSMENT OF THE SECOND ACCORDANCE OF T
5. 6. 7. 8. 9.		2.446		1847	Total Number of Dominant Species Across All Strata: 6 (B)
6. 7. 8. 9.	₩	(eac	5943	1940	
7. 8. 9.	1000	(144)	-	1221	Percent of Dominant Species That Are OBL, FACW, or FAC: 17% (A/B)
8. 9.		0.000			(AD)
9.		1944		. 1941	Prevalence Index Worksheet
A A STATE OF THE S		-		-	The state of the s
	-				Annual Control of the
10.			9.00		OBL spp. 0 x 1 = 0
	Total Cover =	32		80.0	FACW spp. 5 x 2 = 10
					FAC spp. 10 x 3 = 30
	ratum (Plot size: 5 meter radius)	40		FAOU	FACU spp. 99 x 4 = 396
1.	LONICERA X BELLA	12	Y	FACU	UPL spp15 x 5 =75
2.	RHAMNUS CATHARTICA	10	Υ	FAC	TALL STILL STANDARD MICHAEL BEAUTY WARRY AS
3.	·	**	•	***	Total 129 (A) 511 (B)
4.	()	-	(100)	-	230 92 M (2311 Wellelle 925999982)
5.	(##)	***	-	-	Prevalence Index = B/A = 3.961
6.	(SPAC) 25	***	0000	(944)	
7.	S P4 0			166	
8.	8	ala:	044	N)==):	Hydrophytic Vegetation Indicators:
9.	-	-	-	-	Yes X No Rapid Test for Hydrophytic Vegetation
10.	144)		**	24	Yes X No Dominance Test is > 50%
	Total Cover =	22			Yes X No Prevalence Index is ≤ 3.0 *
	2.5 m 3000 tu 2000 tu	600000			Yes X No Morphological Adaptations (Explain) *
Harh Stratum (Ple	ot size: 2 meter radius)				Yes X No Problem Hydrophytic Vegetation (Explain) *
1.	PHLEUM PRATENSE	30	Υ	FACU	1_ res 1x no resolutifuspilis regulation (Explori)
2.	FESTUCA RUBRA	20	Ÿ	FACU	* Indicators of hydric soil and wetland hydrology m
3.	Asclepias syriaca	15	Ý	UPL	present, unless disturbed or problematic.
4.		5	N	FACW	Definitions of Vegetation Strata:
5.	Persicaria pensylvanica	5	N	FACU	Definitions of vegetation strata.
6	Solidago canadensis		17		Tree - Woody plants 3 in. (7.6cm) or more in diameter
7.					at breast height (DBH), regardless of height.
	**		S##		
8.	(SEM)	1125	(144)		O V 101 1 Weady elected to 2 in DDV and exector
9.		1022	3241	-	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.		72-21	7 	522	(1011 0.20 14.100)
11.		-	123	-22	
12.	1221			122	Herb - All herbaceous (non-woody) plants, regardless
13.	(See V); <u>[54</u>]		,02	of size, and woody plants less than 3.28 ft. ta'l.
14.	122 E	74.5	-	- 144	TARCO INCIDENCE 4000 II RANCESTO DE SOCIEDOMENO MOSTO DE RECUESTO DE SOCIEDO DE SOCIEDA
15.		1)1	10.30		Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	75			
Woody Vine Strate	tum (Plot size: 10 meter radius)				
1.	1840	V.EE	(Fact)	1984	A DESCRIPTION OF THE PROPERTY OF THE ACTION OF THE PROPERTY OF
2.	(64)	1766	1945	441	
3.	NAME OF THE PARTY		344		Hydrophytic Vegetation Present Yes X No
4.	(#2)	WEEK.	1000		
· 5.	221)7 <u>252</u> 6	224	122	
	Total Cover =	0			 44 (a) the contribution of the property of the contribution of the contribution.
Remarks:	Total Gover				
Remarks:					
			0		
Additional Ren	marks:				
autustiui Moi					



Project/Site:	Ridge Road						Stantec Project	t#: 193705554	ii .	Date:	09/20/17
Applicant:		ara Lessner		201 1040	(0) 1 10501					County:	Dane
Investigator #1				Investig	ator #2:			SU 111		State:	Wisconsin
Soil Unit:	Hayfield silt	loam		-			/I/WWI Classifica	ation: N/A		Wetland ID:	W-1
Landform:	Dip		****			Concav	е	D-1	. NI/A	Sample Point:	P-2 Wet Meadow
Slope (%):	0-2	Latitude			ngitude:		2.4	Datum	K No	Community ID: Section:	23
	- proces	tions on the site t				(If no, expl		Yes Imstances preser		Township:	7N
		r Hydrology sign				l	X Yes		H.f	Range:	11E
NAME OF TAXABLE PARTY.	NAME AND ADDRESS OF TAXABLE PARTY.	r Hydrology) na	iturally pr	obiematic	· f		IX 10.	1 110	-	Narge.	TIL
SUMMARY OF	THE RESERVE OF THE PERSON NAMED IN COLUMN 1	-10	-	W Was	C NI-			Undein Caile	Descent	The second	X Yes
Hydrophytic V				X Yes	- No			Hydric Soils		Marihim A Marello	ind? X Yes
Wetland Hydro Remarks:	Doogy Present	WETS analysis, t	ha alimati	A Yes	No		re wetter then no	rmal from June 1	Violet 3	1 However de	rier than normal
UVBBOLOOV		ere experienced	from Sept	ember 1	- 19 prid	or to the f	ield investigation				
HYDROLOGY Wetland Hyd		tors (Check here	if indicate	ors are no	ot prese	nt[):					35pt
Primar	Υ		ii iii ai o a c			,			Secondary		
	A1 - Surface V					er-Stained				B6 - Surface Soi	
Ļ	A2 - High Wat A3 - Saturation					uatic Fauna rl Deposits				B10 - Drainage F B16 - Moss Trim	
· i	B1 - Water Ma					rogen Sulfi				C2 - Dry-Seasor	
i	B2 - Sediment				C3 - Oxid	fized Rhizo	spheres on Living R	toots		C8 - Crayfish Bu	rrows
Į	B3 - Drift Dep						educed Iron	re		C9 - Saturation \ D1 - Stunted or S	Visible on Aerial Imager
F	B4 - Algal Mat B5 - Iron Depo					ent Iron Re Muck Sur	eduction in Tilled Soi	is	IX	D2 - Geomorphic	
i		n Visible on Aerial Im	nagery			oplain in Re			Ē	D3 - Shallow Aq	
I		Vegetated Concave			2		8			D4 - Microtopog	
									IX	D5 - FAC-Neutra	al lest
Field Observa	-										
Surface Water	CANADA CATALOGICAL SELECTION OF THE SELE	Yes X No	Depth:		(in.)			Wetland H	drology P	resent?	Yes No
		Yes X No	Depth:		(in.)						
Water Table F			17.55								and the state of t
Water Table P Saturation Pre		Yes X No	Depth:		(in.)			H. M. KANAT	a Proper Service	Contraction of	
Saturation Pre	sent?		CHESTON ACCOUNT			ious inspe	ctions), if available	e: N/A	e Popolicioli		
Saturation Pre Describe Recor Remarks:	esent? Frided Data (stre	Yes X No am gauge, monitor	CHESTON ACCOUNT				н				V
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name	esent?	Yes X No am gauge, monitor	ring well, a				н	e: N/A	poorly		
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su	esent?	Yes X No am gauge, monitor am	ring well, a	erial phot	os, prev	S	eries Drainage C	lass: somewhat p			
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri	esent? rded Data (stre	Yes X No am gauge, monitor	ring well, a	erial phot	os, prev	S	eries Drainage C	lass: somewhat p	Coated Sand Grains;	Location PL-Pore Lining	
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Suited Profile Descri	esent? Forded Data (street): bgroup): ption (Describes in Bottom Bottom	Yes X No am gauge, monitor am gauge, monitor Hayfield silt loam Aquollic Hapludal	fs	erial phot	os, prev	S	eries Drainage C	lass: somewhat p	Coated Sand Grains;	-	Texture
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth	esent? rded Data (stre	Yes X No am gauge, monitor am gauge, monitor Hayfield silt loam Aquollic Hapludal edeph.reeded to documents Horizon	fs endeate or con	rate secondarix	os, previo	S) (Type C=Cor	eries Drainage C cention D-Depleton RV= Color (Moist)	lass: somewhat p	cored Sand Grains S Type	Location	Texture (e.g. clay, sand, lo
Saturation Pre Describe Recor Remarks: SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0	esent? rded Data (stre	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal adopt rested to door with Horizon 1	fs Color 10YR	Matrix (Moist) 2/2	e of industries % 100	S) (Type C=Cor	ieries Drainage C	lass: somewhat p	Cored Sard Grains, S Type	Location	Texture (e.g. clay, sand, lo silty clay loan
Saturation Pre Describe Recor Remarks: SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 8	esent? rded Data (stre	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal adopt rested to door with Horizon 1 2	fs Color 10YR 10YR	Matrix (Moist) 2/2 4/1	os, previos, previos e d'industras % 100 90	S) (Type C=Cor	certies Drainage C certiaton D-Depleton RV= Color (Moist) 4/6	lass: somewhat p Reduced Matrix CS=Counted Redox Feature % 10	Corred Sand Grains, S Type	Location M	Texture (e.g. clay, sand, le silty clay loan
Saturation Pre Describe Recor Remarks: SOILS Map Unit Nam Taxonomy (Su Profile Descri Top Depth 0 8	esent? rided Data (street) bigroup): ption (Celebrate) Bottom Depth 8 24	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal adopt reside become to Horizon 1 2	fs Color 10YR 10YR	Matrix (Moist) 2/2 4/1	os, previo	S) (Type C=Cor	certies Drainage C certieton D-Depleton RM= Color (Moist) 4/6	Reduced Martix Co-Covereds Redook Feature % 10	Type C C C	Location	Texture (e.g. clay, sand, lo silty clay loan
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8	esent? rded Data (street) biggroup): ption (ceerbels to Depth 8 24	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal Horizon 1 2	fs Color 10YR 10YR	Matrix (Moist) 2/2 4/1	os, previos, previos e d'industras % 100 90	S) (Type C=Cor	certies Drainage C certiaton D-Depleton RV= Color (Moist) 4/6	lass: somewhat p Reduced Matrix CS=Counted Redox Feature % 10	Corred Sand Grains, S Type	Location M	(e.g. clay, sand, lo silty clay loam silty clay loam
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8	esent? rded Data (street) bgroup): ption (correspondent) Bottom Depth 8 24	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal Horizon 1 2	fs Color 10YR 10YR	Matrix (Moist)	os, previo	S) (Type C=Cor	Color (Moist) 4/6	lass: somewhat p	Coated Sand Grains, S Type C	Location M 	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8	esent? rded Data (stre	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal e depth needed to document to Horizon 1 2	fs Color 10YR 10YR	Matrix (Moist)	os, previo	10yR	Color (Moist) 4/6	Reduced Martix, CS-Covered Redox Feature % 10	Corred Sand Grains, S Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8	esent? rided Data (street) bigroup): ption (contraint) Bottom Depth 8 24	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal e depth reeded to door with Horizon 1 2	fs e indicator or cor 10YR 10YR	Matrix (Moist)	e d'indicators % 100 90	S) (Type C-Cor	Color (Moist) 4/6	Reduced Matrix, CS-Covered Redox Feature % 10	Cored Sard Grains	Location M	Texture (e.g. clay, sand, lc silty clay loam silty clay loam
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8	esent? rided Data (streents) bigroup): ption (George to	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal e dephreeded to door with Horizon 1 2	fs Color 10YR	Matrix (Moist) 2/2 4/1	e d'indicators % 100 90	S 1 (Type C-Cor	Color (Moist) 4/6	Reduced Matrix CS=Covered Redox Feature % 10	Coursed Sand Grains, S Type C	Location M	Texture (e.g. clay, sand, k silty clay loan silty clay loan
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8 NRCS Hydric	esent? rded Data (street by reded Data (str	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal e depth reside to door set to Horizon 1 2	fs e indicator or cor 10YR 10YR	Matrix (Moist) 2/2 4/1	e d'indicators % 100 90 e not pr 88 - Poly S9 - Thin S11 - High F1 - Loar F2 - Loar F3 - Dep	10YR 10YR	Color (Moist) 4/6): w Surface (LRR R, VLR ace) (LRR R, L) Matrix X Inface Surface Surface Surface	Reduced Matrix, CS-Coverage Redox Feature 9% 10 Indicators of hy	Type C Type C C	Location M M	Texture (e.g. clay, sand, li silty clay loan silty clay loan
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8 NRCS Hydric	esent? priced Data (street by the property of	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal e depth needed to document to Horizon 1 2 dicators (check hopedon tic suffice Layers d Below Dark Surface ark Surface ark Surface ark Surface ark Mineral eyed Matrix document to	fs e indicator or cor 10YR 10YR	Matrix (Moist) 2/2 4/1	e d'indicators % 100 90 e not pr 88 - Poly S9 - Thin S11 - High F1 - Loar F2 - Loar F3 - Dep	10YR 10YR	Color (Moist) 4/6): w Surface (LRR R, VLR ace) (LRR R, L) Matrix X Inface Surface Surface Surface	lass: somewhat seed with the control of the control	ored Sard Garas S Type C C	Location M M	Texture (e.g. clay, sand, ic silty clay loam silty clay loam
Saturation Pre Describe Recor Remarks: SOILS Map Unit Name Taxonomy (Su Profile Descri Top Depth 0 8 NRCS Hydric	esent? rded Data (streent of the property of	Yes X No am gauge, monitor Hayfield silt loam Aquollic Hapludal e depth needed to document to Horizon 1 2 dicators (check hopedon tic suffice Layers d Below Dark Surface ark Surface ark Surface ark Surface ark Mineral eyed Matrix document to	fs e indicator or cor 10YR 10YR	Matrix (Moist) 2/2 4/1	e d'indeators % 100 90 e not pr S8 - Poly S9 - Thin S11 - High F1 - Loar F2 - Loar F3 - Dep F6 - Red	10YR 10YR	Color (Moist) 4/6): w Surface (LRR R, VLR ace) (LRR R, L) Matrix X Inface Surface Surface Surface	Reduced Matrix, CS-Coverage Redox Feature 9% 10 Indicators of hy	ored Sard Garas S Type C C	Location M M	Texture (e.g. clay, sand, k silty clay loam silty clay loam



	Ridge Road				
GETATION	(Species identified in all uppercase are non-na	ative species.)		500	
	Plot size: 10 meter radius)		8		
- 10	Species Name	% Cover Dom	inant	Ind Status	Dominance Test Worksheet
1.	•	**	••	1722	
2.	**	200	<u></u>	122	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.	-	**			
4.		*			Total Number of Dominant Species Across All Strata: 5 (B)
5.	**	22			
6.	**	.754			Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A
7.		090 2	-	22	(A
					Donal and Indian Western
8.		800	-	22	Prevalence Index Worksheet
9.	**	22			Total % Cover of: Multiply by:
10.		599	••		OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 60 x 2 = 120
					FAC spp. 20 x 3 = 60
Sina/Shrub S	tratum (Plot size: 5 meter radius)				FACU spp. 35 x 4 = 140
1.	Cornus racemosa	15	Υ	FAC	UPL spp. 0 x 5 = 0
2,	RHAMNUS CATHARTICA	0000	Y	FAC	
3.	and finite and a second mentage of the many second at the property of the second secon	9500	N	FACU	Total 115 (A) 320 (B)
7231.01	Hamamelis virginiana		14641		Total 115 (A) 320 (B)
4.		580 3	-	- 55	F G
5.	[86] [87]	250			Prevalence Index = B/A = 2.783
6.		+	-		
7.					
8.		-			Hydrophytic Vegetation Indicators:
9.	100	1000 1000			Yes X No Rapid Test for Hydrophytic Vegetation
10.	••			44	X Yes No Dominance Test is > 50%
10.	Total Cover =	22	2007/	- 535	X Yes No Prevalence Index is ≤ 3.0 *
	Total Cover -	22	64		225) 6.745 E. 60760 E. ELLECTIMATURE AND CONTROL OF CON
	AND THE PROPERTY OF THE PROPER				Yes X No Morphological Adaptations (Explain) *
	lot size: 2 meter radius)			E1011	Yes X No Problem Hydrophytic Vegetation (Explain) *
1.	PHALARIS ARUNDINACEA		Υ	FACW	* Indicators of hydric soil and wetland hydrolo
2.	Andropogon gerardii	50,0553	Y	FACU	present, unless disturbed or problematic.
3.	Spartina pectinata	20	Y	FACW	
4.	Ambrosia artemisiifolia	3	N	FACU	Definitions of Vegetation Strata:
5.	**			**	8
6	22				Tree - Woody plants 3 in. (7.6cm) or more in diame
7.	.72	A == 0	F-5-0	-	at breast height (DBH), regardless of height.
8.					
		100.00	-	7392	Sapling/Shrub - Woody plants less than 3 in. DBH and greate
9.	in	52) 3		85	than 3.28 ft. tall.
10.		100	- (178 H	uldit 3.20 IL ldil.
11.)55	100	-	.55	90000 00 00 00 00 00 00 00 00 00 00 00 0
12.		L TT 4 3	atte:	Nas.	Herb - All herbaceous (non-woody) plants, regardle
13.	13.5	1000		77.5	of size, and woody plants less than 3.28 ft. to
14.	**************************************	1000		755	6
15.	55	172	5754 550	.TT	Woody Vines - All woody vines greater than 3.28 ft. in heigh
10.	Total Cover =	93	B2500	12/2	•
	Total Cover =	93			
	AND THE PROPERTY OF THE PROPER				
	atum (Plot size: 10 meter radius)				
1.			-		
2.	*		-		
3.	105	(AEEE)	550	N2755	Hydrophytic Vegetation Present X Yes N
4.	197	(100)	55%	1770	ACTION DESIGNATION OF THE COLUMN TO SEE THE
- 5.	int	ne-u		.55	
100.47	Total Cover =	0		000	
marke:	Wet meadow transitions to shrub-carr t				Programme in the second control of the second secon
marks:	vvet meadow transitions to snirib-carr t	o trie south.			
				8	
- E					
ditional Re	omarks:				



	Ridge Road						Stantec Project #:	193705554		Date:	09/20/17
Applicant:		Sara Lessner								County:	Dane
Investigator #1				Invest	igator #2:				W.	State:	Wisconsin
Soil Unit:	Hayfield silt	loam					/I/WWI Classification:	: N/A	90	Wetland ID:	W-2
Landform:	Rise	0.0.0	77		al Relief:					Sample Point:	P-3
Slope (%):	0-2	Latitude			ongitude:			Datum:		Community ID:	 Upland Woodland
		itions on the site t				(If no, expla			No	Section:	23
Are Vegetation	Soil,	or Hydrology sig	gnificantly	y disturb	ed?	1	Are normal circumst		?	Township:	7N
Are Vegetation	, Soil, , c	r Hydrology na	iturally pr	oblemat	1C?	1	X Yes	No		Range:	11E
SUMMARY OF											
Hydrophytic Ve	Contract of the Contract of th			X Yes				Hydric Soils		and representation	Yes X I
Wetland Hydro			1		X No		The state of the s			Within A Wetla	
Remarks:							ere wetter than norma	I from June 1	- August 3	 However, dr 	ier than normal
	conditions v	ere experienced f	rom Sep	tember 1	1 - 19 pric	r to the fi	ield investigation.				
				- 4						7/	
HYDROLOGY							Carrier States				
Wetland Hydr	ology Indica	tors (Check here	if indicate	ors are r	not preser	nt X):			¥1)		
Primary		87		250	3 2				Secondary:		
0	A1 - Surface V					er-Stained				B6 - Surface Soil	
	A2 - High Wat A3 - Saturation			-		atic Fauna 1 Deposits			H	B10 - Drainage F B16 - Moss Trim	
l –	B1 - Water Ma			-		ogen Sulfic			-	C2 - Dry-Season	
l i	B2 - Sediment			i			spheres on Living Roots		Ė	C8 - Crayfish Bur	
	B3 - Drift Dep						educed Iron				/isible on Aerial Imagen
L -	B4 - Algal Mat B5 - Iron Depo					ent Iron Re Muck Surf	duction in Tilled Soils			D1 - Stunted or S	
İ		n Visible on Aerial Im	agery			plain in Re			H	D2 - Geomorphic D3 - Shallow Aqu	
i i		Vegetated Concave		•	00.00 (00	p	in and		i	D4 - Microtopogr	
500										D5 - FAC-Neutra	l Test
Field Observa	tions:	25	92						-	gil someon tota	ang in product sex
Surface Water	Present?	Yes X No	Depth:		(in.)						
Water Table Pr	esent?	Yes X No	Depth:		(in.)	1		Wetland Hyd	Irology P	resent?	Yes X No
Saturation Pres		Yes X No	Depth:		(in.)						
	11503		1,9400		A		attack the calletter	N/A	CF	11.10人员公司公司会	ON DO RESPONDED TO
	ieu Data (sue	am gauge, monitor	ing well, a	senai pin	nos, pievi	ous mspe	ctions), if available:	INA			
Remarks:											
A						20					
SOIL S			٠			XI					
SOILS		Joseffold oilt loom					orion Droinago Classo	a a mouth at pa	orh.		
Map Unit Name		Hayfield silt loam	íe.			Se	eries Drainage Class:	: somewhat po	oorly	,	
Map Unit Name Taxonomy (Sub	group):	Aquollic Hapludali								Appeller On One Albino	, , , , , , , , , , , , , , , , , , ,
Map Unit Name Taxonomy (Sub Profile Descrip	group): tion (Desite bit)	Aquollic Hapludali		Zantollinia Visite			cartration, D=Depietion, RM=Reduced	1 Matrix, CS=Covered/Co		Location: PL=Pore Lining.	
Map Unit Name Taxonomy (Sub Profile Descrip Top	group): tion (Describe to the Bottom	Aquollic Hapludali e depth needed to document the	indicator or cor	Matrix		(Type C=Con	cartration D=Depietion RM=Reduced	Marix CS=CovarianCo edox Features	sted Sand Grains,		Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): tion (Describe to the Bottom Depth	Aquollic Hapludali e depth reeded to document the Horizon	Color	Matrix (Moist)	%	(Type: C=Con	certation, D=Depiction, RN=Reduced Re Color (Moist)	dox Features	zed Sand Grains, Type	Location	Texture (e.g. clay, sand, lo
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): tion (Describe to the Bottom Depth 14	Aquollic Hapludali a depth reeded to document the Horizon 1	Color 10YR	Matrix (Moist) 3/2	% 100	(Type C=Con	certation D=Depiction RN=Reduced Re Color (Moist) 	Marix CS-Coveres Co edox Features %	ass Sans Grans, Type	Location	Texture (e.g. clay, sand, lo silt loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to the Depth 14 24	Aquollic Hapludali a depri readed to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/2	% 100 95	(Type C=Conv	Contraion D-Depision RV-Reduced Re Color (Moist) 4/6	dox Features % 5	Type C	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Describe to the Depth 14 24	Aquollic Hapludali e depri resded to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/2	% 100 95 	(Type: C=Con	Contration D-Capitain RN-Rabuced Re Color (Moist) 4/6	s Marin, CS-Covaria Co edox Features % 5	Type C	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam -
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (people to the late of the la	Aquollic Hapludali e depti resded to document the Horizon 1 2 	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95 	(Type C=Con	Centration D-Depieron, RN-Reduced Re Color (Moist) 4/6	Marin CS-Coverage edox Features % 5	Type C	Location	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Described) Bottom Depth 14 24	Aquollic Hapludall e depon receded to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95 	(Type C=Con	Centration D-Depision, RV-Reduced Re Color (Moist) 4/6	Marin CS-Coveres Coveres Cover	Type C C	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Describe to the Control of Con	Aquollic Hapludall e depon receded to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95 	10YR	Certratory D-Departory RV-Reduced Re Color (Moist) 4/6	Matic CS=Covered	Type C	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @ssets to to perfect the perfect to th	Aquollic Hapludall e depth needed to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95 	10YR	Centration, D=Depiaron, RN=Reduced Re Color (Moist) 4/6	s Marix CS-CoveresCoordox Features % 5	Type C	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Described to the Control of Co	Aquollic Hapludall e depth needed to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95 		Centration D-Depiation RN-Reduced Re Color (Moist) 4/6	SMartix CS-CoveresCoordox Features % 5	Type C	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Described by the State of	Aquollic Hapludall e depth needed to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95	10YR	Centration D-Depieron, RN-Reduced Re Color (Moist) 4/6);	Marky CS-Coveres/Cover	Type C s for Proble	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @ssortento Bottom Depth 14 24 Soil Field Inc.	Aquollic Hapludall e deponeeded to document the Horizon 1 2 dicators (check h	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95	10YR	Centration D-Depision, RV-Reduced Re Color (Moist) 4/6): w Surface (LRR R, MLRR 1458)	Mark CS-Covers	Type C s for Proble	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @seatable to Bottom Depth 14 24 Soil Field Int A1- Histosol A2 - Histic Epi	Aquollic Hapludall e depth receded to document the Horizon 1 2 dicators (check h	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95 re not pre S8 - Potyn S9 - Thin	10YR	Centration, D-Depiatron, RM-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1458)	Mark CS-Covers	Type	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Described by the Atlanta Social Field Inc. A1 - Histosol A2 - Histosep A3 - Black His	Aquollic Hapludall a depth needed to docurrent the Horizon 1 2 dicators (check h	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95 re not pre S8 - Polyn S9 - Thin S11 - Higl	10YR	Certration D-Depieron RV-Reduced Re Color (Moist) 4/6	Mark CS-Covered Co. school Features % 5 Indicators	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @seatable to Bottom Depth 14 24 Soil Field Int A1- Histosol A2 - Histic Epi	Aquollic Hapludall a depth reeded to docurrent the Horizon 1 2 dicators (check h pedon tic Sulfide	Color 10YR 10YR 	Matrix (Moist) 3/2 4/2 	% 100 95	10YR	Centration D-Depision, RV-Reduced Re Color (Moist) 4/6): w Surface (LRR R, VLRA 1659) Sands Lineral (LRR K, L)	Mark CS-CoversCoording CS-Cove	Type C C s for Proble A10 - 2 cm A16 - Coasts S7 - Dark S 77 - Dark S 77 - Dark S	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Described by the Atlanta Social Field Inc. A1 - Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A11 - Depleter	Aquollic Hapludali a depth needed to docurrent the Horizon 1 2 dicators (check h pedon its Suffide Layers 1 Below Dark Surface	Color 10YR 10YR ere if indi	Matrix (Moist) 3/2 4/2 	% 100 95	10YR	Centration D-Capterion, RN-Rabbones Re Color (Moist) 4/6): w Surface (LRR R, MLRA 1658) Sands Lineral (LRR K, L) Martix (Marix CS-CoveredCoording Features %	Type C C S for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyvei S9 - Thin D S9 - Thin D S9 - Thin D	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @ssstable to the path and the p	Aquollic Hapludali a depon receded to document the Horizon 1 2 dicators (check h pedon tic Sulfide Layers di Below Dark Surface	Color 10YR 10YR ere if indi	Matrix (Moist) 3/2 4/2 	% 100 95	10YR	Re Color (Moist) 4/6): w Surface (LRR R, MLRA 1458) Sands Lineral (LRR K, L) Matrix ((fface	Mark CS-CoveresC	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5 cm K S7 - Dark S S8 - Polyval S9 - Thin Da F12 - Iron-h	Location M M M Much (IRR K, L, MIRA L Prairie Redox (IRR L Wicky Peat of Peat urface (IRR K, L, M) Hue Below Surface ark Surface, IRR Kanganese Masse	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Describe to the Control of Con	Aquollic Hapludali e depon receded to document the Horizon 1 2 dicators (check h pedon tic Suffide Layers 1 Below Dark Surface ark Surface ark Surface ark Surface	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Mark CS-CoversCoordox Features % 5 Indicators	Type C C G For Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyval S9 - Thin D F19 - Piedn	Location M M Muck (LARK, L. MURA Prairie Redox (LAR Prairie Redox (LAR LOCATION LOCATION LOCATION MUCK (LARK) LOCATION LOCATION MUCK (LARK) LOCATION LOCATION MUCK (LARK) LOCATION LOCATION MUCK (LARK) MUCK (L	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion (Described by the All All All All All All All All All Al	Aquollic Hapludali e depth needed to document the Horizon 1 2 dicators (check h pedon itic I Suffide Layers I Below Dark Surface uck Mineral eyed Matrix	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95	10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Marky CS-CoveredCoording State of the CS-CoveredCoording State	Type C C S for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyvai S9 - Thin D F12 - Iron-h F12 - Red F	Location M M M Much (IRR K, L, MIRA L Prairie Redox (IRR L Wicky Peat of Peat urface (IRR K, L, M) Hue Below Surface ark Surface, IRR Kanganese Masse	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @sestable to the property of the	Aquollic Hapludali e depon receded to document the Horizon 1 2 dicators (check h pedon tic Suffide Layers 1 Below Dark Surface ark Surface ark Surface ark Mineral eyed Matrix dox Matrix	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Mark CS-CoversCoordox Features %	Type C C C S for Proble A10 - 2 cm A16 - Coast S - S cm M S 7 - Dark S S - Polyvai S 9 - Thín D F 12 - Iron-hr F 19 - Piede F 17 - Red F T A6 - Mesic	Location M M Muck (LARK L. MURA Prairie Redox (LAR Anganese Masse cont Floodplain So Praent Material Spodic (MURA 1444, Shallow Dark Sur	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @sestable to the property of the	Aquollic Hapludali a depth recorded to document the Horizon 1 2 dicators (check in pedon tic Sulfide Layers at Bellow Dark Surface ark Surface	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Mark CS-CoveredCoording State of the CS-Covered Coordinate of the CS-Cover	Type C C s for Proble A10 - 2 cm A16 - Coasts S3 - 5 cm M S7 - Dark S S9 - Thin D F12 - Iron-h F12 - Red F TA6 - Mesic	Location M	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	group): tion @sestable to the property of the	Aquollic Hapludali e depon receded to document the Horizon 1 2 dicators (check h pedon tic Suffide Layers 1 Below Dark Surface ark Surface ark Surface ark Mineral eyed Matrix dox Matrix	Color 10YR 10YR	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Marky CS-CoveresCoordox Features % 5 Indicators Indicators of hydr	Type C C s for Proble A10 - 2 cm A16 - Coasts S3 - 5 cm M S7 - Dark S S9 - Thin D F12 - Iron-h F12 - Red F TA6 - Mesic	Location M M M Muck (LARK L MURA Frairie Redox (LAR LAR Muck (LARK L MURA Frairie Redox (LAR LAR Muck (LARK L MURA LAR Mura Mura LAR Mura Shallow Dark Sur Julian in Remarks) Son and wetend hydr	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 NRCS Hydric	group): tion @sssteptot Bottom Depth 14 24 Soil Field Inc A1- Histosol A2- Histic Epi A3- Black His A4- Hydroger A5- Stratified A11 - Deplete A12- Trick D: S1- Sandy Mt S4- Sandy Gt S5- Sandy Re S6- Stripped I	Aquollic Hapludali edgo reeded to docurrent the Horizon 1 2 dicators (check h pedon tic is Urlide Layers id Below Dark Surface ick Mineral eyed Matrix dox Matrix ace (LRRR, MLRA 1659)	Color 10YR 10YR ere if indi	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Marky CS-CoveresCoording State of the Coordinate of the Co	Type C C s for Proble A10 - 2 cm A16 - Coasl S3 - 5 cm M S7 - Dark S S8 - Polyval S7 - Dark S S8 - Polyval T46 - Mesic TF12 - Very Other (Explayor)trio vegeta	Location M M M Muck (LARK L. MURA Prairie Redox (LAR Prairie	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 NRCS Hydric	group): tion @sssteptot Bottom Depth 14 24 Soil Field Inc A1- Histosol A2- Histic Epi A3- Black His A4- Hydroger A5- Stratified A11 - Deplete A12- Trick D: S1- Sandy Mt S4- Sandy Gt S5- Sandy Re S6- Stripped I	Aquollic Hapludali e depon receded to document the Horizon 1 2 dicators (check h pedon tic Suffide Layers 1 Below Dark Surface ark Surface ark Surface ark Mineral eyed Matrix dox Matrix	Color 10YR 10YR ere if indi	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Marky CS-CoveresCoordox Features % 5 Indicators Indicators of hydr	Type C C s for Proble A10 - 2 cm A16 - Coasl S3 - 5 cm M S7 - Dark S S8 - Polyval S7 - Dark S S8 - Polyval T46 - Mesic TF12 - Very Other (Explayor)trio vegeta	Location M M M Muck (LARK L. MURA Prairie Redox (LAR Prairie	Texture (e.g. clay, sand, lo silt loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 NRCS Hydric	group): tion @sssteptot Bottom Depth 14 24 Soil Field Inc A1- Histosol A2- Histic Epi A3- Black His A4- Hydroger A5- Stratified A11 - Deplete A12- Trick D: S1- Sandy Mt S4- Sandy Gt S5- Sandy Re S6- Stripped I	Aquollic Hapludali edgo reeded to docurrent the Horizon 1 2 dicators (check h pedon tic is Urlide Layers id Below Dark Surface ick Mineral eyed Matrix dox Matrix ace (LRRR, MLRA 1659)	Color 10YR 10YR ere if indi	Matrix (Moist) 3/2 4/2 	% 100 95	10YR 10YR	Certrator D-Depieron, RV-Reduced Re Color (Moist) 4/6): w Surface (IRR R, MIRA 1499) DOE (IRR R, MIRA 1499) Sands Lineral (IRR K, L) Matrix or face Surface Surface	Marky CS-CoveresCoording State of the Coordinate of the Co	Type C C s for Proble A10 - 2 cm A16 - Coasl S3 - 5 cm M S7 - Dark S S8 - Polyval S7 - Dark S S8 - Polyval T46 - Mesic TF12 - Very Other (Explayor)trio vegeta	Location M M M Muck (LARK L. MURA Prairie Redox (LAR Prairie	Texture (e.g. clay, sand, lo silt loam silty clay loam



Project/Site:	Ridge Road				Wetland ID: W-2 Sample Poir
EGETATION		ative species	s.)		
ree Stratum (P	lot size: 10 meter radius)		_	70 10	7
*		% Cover Di		Ind Status	Dominance Test Worksheet
1.	Prunus serotina	35	Y	FACU	3
2.	Quercus rubra	20	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.	Populus tremuloides	10	N	FAC	
4.	(**)		0-0		Total Number of Dominant Species Across All Strata: 7 (B)
5.	366	**	100	(88)	
6.	bee:			See 1	Percent of Dominant Species That Are OBL, FACW, or FAC: 57% (A
7.		**		***	
8.	(MAC)	**			Prevalence Index Worksheet
9.	(44)	-	-	(** 0	Total % Cover of: Multiply by:
10.	(200)	**	600	-	OBL spp. 0 x 1 = 0
	Total Cover =	65			FACW spp. 0 x 2 = 0
		F-201			FAC spp. 66 x 3 = 198
of oalChad Ct	ratum (Plot size: 5 meter radius)				FACU spp. 80 x 4 = 320
1.	RHAMNUS CATHARTICA	50	Υ	FAC	UPL spp. 0 x 5 = 0
			Y		от Е зрр о х о о
2.	LONICERA X BELLA	25		FACU	Table 220 AN PER SEC
3.		**	(•••		Total 146 (A) 518 (B)
4.				(184 0)	NATIONAL CONTRACTOR CO
5.	•••		10483	2000	Prevalence Index = B/A =3.548
6.	(##)	99	(**)		
7.	## // // // // // // // // // // // // /		-		
8.	9 4 1	***	1	(9-6)	Hydrophytic Vegetation Indicators:
9.	•	-	1885	·	Yes X No Rapid Test for Hydrophytic Vegetation
10.	(**)	144		(8-4)	X Yes No Dominance Test is > 50%
	Total Cover =	75			Yes X No Prevalence Index is ≤ 3.0 *
19					Yes X No Morphological Adaptations (Explain) *
rh Stratum (P	ot size: 2 meter radius)			8	Yes X No Problem Hydrophytic Vegetation (Explain) *
1.	Geum canadense	2	Υ	FAC	
2.	Viola sororia	2	Y	FAC	 Indicators of hydric soil and wetland hydrolo
3.	RHAMNUS CATHARTICA	2	Ý	FAC	present, unless disturbed or problematic.
					Definitions of Verstation Strates
4.	(44)				Definitions of Vegetation Strata:
5.	144	-	-		7 10 1 1 0 70 1
6	SPM)	F-6		(44)	Tree - Woody plants 3 in. (7.6cm) or more in diamer at breast height (DBH), regardless of height.
7.	**		-	-	at breast height (bbit), regardess of height
8.	(A)		*	44	Ty/ld
9.	(22)	246		(##)	Sapling/Shrub - Woody plants less than 3 in. DBH and greate
10.	(AA)		-		than 3.28 ft. ta'l.
11.	144		(**)	(44)	
12.	44		7.50	124	Herb - All herbaceous (non-woody) plants, regardles
13.	200	===	Time:	1841	of size, and woody plants less than 3.28 ft. ta
14.	(20)	###	1000	(22)	
15.		92	(44)	(44)	Woody Vines - All woody vines greater than 3.28 ft. in height
	Total Cover =	6			The state of the s
	Total Cover =	U		200	9 (*)
nd (16 0)	turn (Blot almos 40 mater - Turk			- 2	
	turn (Plot size: 10 meter radius)				
1.	(He)	**	(**:		
2.	**	***	**		
3.	(49)	(10)	-		Hydrophytic Vegetation Present X Yes ☐ No
4.	(MR) 00	F80	(1996)	1966	
5.		-	/#4	3-0-	
	Total Cover =	0			
emarks:					b and herbaceous layers. These species are typically disturbance driven a
	*			20	
iditional Re	marks:				
iuiuonai Ke					



	Ridge Road						Stantec Project #:	193705554		Date:	09/20/17
Applicant:		Sara Lessner								County:	Dane
Investigator #1				Investi	gator #2					State:	Wisconsin
Soil Unit:	Hayfield silt	loam		Lancon	Life in the state of the state		/I/WWI Classification:	: N/A		Wetland ID:	W-2
Landform:	Depression	7 Propagation				Concav	9	III—III SANSTERIA	*****	Sample Point:	P-4
Slope (%):	0-2	Latitude			ongitude		en West Service	Datum:	_	Community ID:	· Wooded Wetland
Are climatic/hyd	drologic cond	itions on the site	typical for	this time	of year	(If no, expla			No	Section:	23
		or Hydrology si				1	Are normal circumst		.7	Township:	7N
		r Hydrology n	aturally pr	obiemat	IC?		IX Tes	No	167	Range:	11E
SUMMARY OF	The state of the s	10		Dr. 34	The same			11 11 0 1			Transport of the second
Hydrophytic Ve				X Yes				Hydric Soils		MARIE A MARIE	X Yes
Wetland Hydro Remarks:			the climat				re wetter than norma				nd? X Yes
Kemarks.	conditions v	ere experienced	from Sep	tember 1	- 19 pric	or to the f	ield investigation. The hydrology in April 201	e determination			
HYDROLOGY	пуогорпуис	vegetation, nyon	o solis, all	u observ	ations of	Wedano	nydrology in April 201		2-6-8	- N = 10 +	CANAL STATE
ASSESSED AND ADDRESS OF THE PARTY OF T	rology Indica	tors (Check here	if indicate	ors are n	ot prese	nt[):					
Primary		17.		_	ecotion		W. Colonia P. A. Colonia		Secondary		Colonia de Calonia de
-	A1 - Surface \ A2 - High Wal					er-Stained uatic Fauna			L	B6 - Surface Soil B10 - Drainage P	
	A3 - Saturatio			i		rl Deposits			-	B16 - Moss Trim	
	B1 - Water Ma	arks		Ė	C1 - Hyde	rogen Sulfi				C2 - Dry-Season	Water Table
	B2 - Sediment						spheres on Living Roots			C8 - Crayfish Bur	rrows
-	B3 - Drift Dep B4 - Algal Mai						educed Iron duction in Titled Soils		-	D1 - Sturation v	risible on Aerial Imagen
i i	B5 - Iron Depo					Muck Surf			İx	D2 - Geomorphic	
	B7 - Inundatio	n Visible on Aerial In		X	Other (Ex	plain in Re	marks)			D3 - Shallow Aqu	
1	B8 - Sparsely	Vegetated Concave	Surface						-	D4 - Microtopogr D5 - FAC-Neutra	
Field Observed							1 - 7-11 - 11 - 11 - 11 - 11 - 11 - 11			D3 - PAC-Neoua	i rest
Field Observa	GERNOCKY GASSING	- V E-N-	Death		11-1						3.4.3.5.2.3
Surface Water Water Table Pr	Trees - 1140	Yes X No	Depth: Depth:		(in.)	1		Wetland Hyd	Irology P	resent?	Yes No
Saturation Pres	Acres of Salling of	Yes X No	Depth:		(in.) (in.)						
	3650/1927/	- 1.000 PEC 1#5374 UC8948	GOLDANA CONTO		04/10/04/1		THE STATE OF		W (3-3)		Approximately and
							ctions), if available:	N/A			
Remarks:							nce by FAC species.				
		jacent upiand wo vetland determina					canopy. Surface Wa	ater, High vvat	er rabie, a	and Saturation v	vere observed durin
	740111 ZO17 Y	etiana acterinina	don nord	וויות, וווי	contrar p	or don or i	1-2.				
		las field eilt leese					orios Designas Class	. samewhat as	orbi		
Map Unit Name		Hayfield silt loam	lfo.			S	eries Drainage Class:	somewhat po	orly		
Map Unit Name Taxonomy (Sub	group):	Aquollic Hapluda								Laurice Parkers Nation	Indiana.
Map Unit Name Taxonomy (Sub Profile Descrip	group): ition (Desorter to t	Aquollic Hapluda					centration, D=Depletion, RM=Reduced	1V±1x CS=CoveratCo		Location: PL=Pore Lining.	
Map Unit Name Taxonomy (Sub Profile Descrip Top	group): otion (Describe to the Bottom	Aquollic Hapluda e depti resded to document th	e indicator or cor	Matrix			certision, D=Depleton, RM=Reduced Re	uwata cs=coesico edox Features	ded Sand Grains,		Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): otion (Describe to a Bottom Depth	Aquollic Hapluda e depth resided to document to Horizon	e indicator or cor Color	Matrix (Moist)	%) (Type C-Con	centration, D=Depletion, RM=Reduced	edox Features		Location	Texture (e.g. clay, sand, lo
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): btion (Describetor Bottom Depth	Aquollic Hapluda e depth reeded to doowned the Horrizon 1	Color 10YR	Matrix (Moist) 2/2	% 100) (Type C=Con	Color (Moist)	edox Features	zed Sand Grans. Type	Location	Texture (e.g. clay, sand, lo silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): btion (Describe or Depth 10 24	Aquollic Hapluda e depth resided to document in Horrizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/2 4/2	% 100 92) (Tiple C=Con	Color (Moist) 4/6	edox Features % 8	zed Sand Grans Type	Location M	Texture (e.g. clay, sand, lo silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	Bottom Depth 10 24	Aquollic Hapluda e depth recoded to document & Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/2 4/2	% 100 92 	(Type C=Con	Centration, D-Depletion, RM-Reduced Re Color (Moist) 4/6	M±x cs-coresico edox Features % 8	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): btion (Describe or Depth 10 24	Aquollic Hapluda e depth resided to document in Horrizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/2 4/2	% 100 92) (Tiple C=Con	Color (Moist) 4/6	edox Features % 8	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam -
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	Bottom Depth	Aquollic Hapluda a depth record to decument to Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 	% 100 92 	10YR	Color (Moist) 4/6	M±tx CS=Coveracco dox Features % 8	Type C	Location M 	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	group): otion (Describer) Bottom Depth 10 24	Aquollic Hapluda e depti needed to document a Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 	% 100 92 	10YR	Color (Moist) 4/6	Maix CS-Coversico edox Features % 8	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	group): stion (Describe to a Bottom Depth 10 24	Aquollic Hapluda e deph reeded to doour ent e Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 	% 100 92 	10YR	certration D-Depleton RM-Reduced Re Color (Moist) 4/6	Math CS-Covered Co dox Features % 8	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	group): tion (pss/balant Bottom Depth 10 24	Aquollic Hapluda e depth receded to document & Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/2 4/2 	% 100 92 	10YR	certration D-Depleton RM-Reduced Re Color (Moist) 4/6	Marx CS-Consisted dox Features % 8 	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	group): tion (pss/balant Bottom Depth 10 24	Aquollic Hapluda e deph resided to document e Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/2 4/2 	% 100 92 re not pri	10YR	certration D-Depleton RM-Reduced Re Color (Moist) 4/6	Marx CS-Coveres/Co edox Features % 	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	group): tion (cosobate to Bottom Depth 10 24 Soil Field In A1-Histosol A2 - Histic Ep	Aquollic Hapluda e deph reeded to doour et the Horizon 1 2 dicators (check I	Color 10YR 10YR 	Matrix (Moist) 2/2 4/2 	% 100 92 re not pri S8 - Poly S9 - Thin	10YR	Color (Moist) 4/6): v Surface (LRR R MURA 1429) CO (LRR R MURA 1429)	Maix CS-Corrisco	Type s for Proble A10 - 2 cm A16 - Coas	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	Bottom Depth 10 24 Soil Field In A1 - Histosop A2 - Histic Ep A3 - Black Hist	Aquollic Hapluda e depth needed to document it Horizon 1 2 dicators (check I	Color 10YR 10YR 	Matrix (Moist) 2/2 4/2 	% 100 92	10YR	ReColor (Moist) 4/6	Maix CS-Corrisco	Type C G for Proble A10 - 2 cm A16 - Coss S3 - 5 cm M	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10	Bottom Depth 10 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His	Aquollic Hapluda a depth receded to decument it Horizon 1 2 dicators (check i	Color 10YR 10YR 	Matrix (Moist) 2/2 4/2 	% 100 92 se not pri 88 - Poly S9 - This S11 - Hig F11 - Loar	10YR	Color (Moist) 4/6); v Surface (LRR R MIRA 1429) Sands Aneral (LRR K L)	Maix CS-Corrisco	Type C 6 for Proble A10 - 2 cm A15 - Coas S3 - 5 cm M S7 - Dark S	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	group): tion (peeche to a local control of the loc	Aquollic Hapluda a deph receded to decurrent to Horizon 1 2 dicators (check I pedon tic 1 Sulfide Layers	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar	10YR 10YR assent Salar Before Dark Surfah Chroman my Mucky My ny Gleyed	Color (Moist) 4/6): y Surface (LRR R MLRA 1459) KOE (LRR R MLRA 1459) Sands Infered (LRR K L) Matrix	Maix CS-Corrisco	Type C C s for Proble A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	group): tion (peeche to a local control of the loc	Aquollic Hapluda e depth needed to document it Horizon 1 2 dicators (check it pedon itc	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 	% 100 92 	10YR	ReColor (Moist) 4/6): v Surface (LRR R MLRA 1439) Sands Aneral (LRR K L) Matrix	Marx CS-Covers/Co	Type C C Gor Proble A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S9 - Thin D	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	group): tion (peechalise to peechalise to p	Aquollic Hapluda a deph receded to decurrent to Horizon 1 2 dicators (check to pedon to to Sulfide Layers d Below Dark Surface ark Surface ark Surface ark Surface	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Red F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Maix CS-Corrisco	Type C C a for Proble A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S9 - Thin D F19 - Piedn	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In A1-Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A11 - Deplete A12 - Trick D S1 - Sandy M S4 - Sandy O	Aquollic Hapluda e depth needed to document to Horizon 1 2 dicators (check if pedon itc is Sulfide Layers d Below Dark Surface ark Surface syed Matrix	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92 re not prr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redo	10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Marx CS-Coversion Cook	Type C C S for Proble A10 - 2 cm A16 - Coas S3 - 5cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-h F12 - Red F	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Strabifed A1 - Deplete A12 - Thick D S1 - Sandy M S4 - Sandy M S5 - Sandy M	Aquollic Hapluda a depth needed to document it Horizon 1 2 dicators (check it ippedon tic is Sulfide Layers at Below Dark Surface ark Surface uck Mineral eyed Matrix doox	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92 re not prr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Many CS-Coversoro	Type C G	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In A1-Histosol A2 - Histic Ep A3 - Black His A4 - Hydroga A5 - Stratified A11 - Deplete A12 - Thick S1 - Sandy M S4 - Sandy G S5 - Sandy Re S6 - Stripped	Aquollic Hapluda a depth needed to document it Horizon 1 2 dicators (check it ippedon tic is Sulfide Layers at Below Dark Surface ark Surface uck Mineral eyed Matrix doox	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92 re not prr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Many CS-corresco	Type C C S for Proble A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S8 - Polyva F19 - Piedn F19 - Piedn F19 - TA6 - Mesk TF12 - Exol	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam 14489) RK L R) (LRR K L) S (LRR K L R) S (LRR K L R) 145 (SR K L R)
Taxonomy (Sub Profile Descrip Top Depth 0 	Bottom Depth 10 24 Soil Field In A1-Histosol A2 - Histic Ep A3 - Black His A4 - Hydroga A5 - Stratified A11 - Deplete A12 - Thick S1 - Sandy M S4 - Sandy G S5 - Sandy Re S6 - Stripped	Aquollic Hapluda a deph receded to document in Horizon 1 2 dicators (check in pedon to solifide Layers d Below Dark Surface ark Surface ark Surface ark Mineral eyed Matrix doox Matrix	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92 re not prr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redo	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Matrix CS=Coveres/Co	Type C C 6 for Proble A10 - 2 cm A15 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-h F19 - Piedn F14 - Messi TF12 - Ven Other (Expl	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A12 - Trick D S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Surter	Aquollic Hapluda a deph receded to document in Horizon 1 2 dicators (check in pedon to solifide Layers d Below Dark Surface ark Surface ark Surface ark Mineral eyed Matrix doox Matrix	Color 10YR 10YR	Matrix (Moist) 2/2 4/2 icators a	% 100 92	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Matrix CS=Coveres/Co	Type Type C C A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S8 - Polyva S7 - Irin D F12 - Iron-h F19 - Piedn F21 - Red F TA6 - Messi TF12 - Ven Other (Expl other (Expl other or problem	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam 14489 RKLR) (LRRKL) (LRRKL) S (LRRKLR) (LRRKLR) (LRRKLR) (LRRKLR) (LRRKLR) 145, 1458) 145, 1458) 146, 1458)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric Restrictive Laye (If Observed)	Bottom Depth 10 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A12 - Trick D S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Surter	Aquollic Hapluda a depth needed to document it Horizon 1 2 dicators (check it pedon fic is Sulfide Layers di Below Dark Surface ark Surface uck Mineral eyed Matrix doox Matrix ace (LRR R, MLRA 1499)	Color 10YR 10YR	Matrix (Moist) 2/2 4/2	% 100 92	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Matrix CS=Coveres/Co dox Features %	Type Type C C A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S8 - Polyva S7 - Irin D F12 - Iron-h F19 - Piedn F21 - Red F TA6 - Messi TF12 - Ven Other (Expl other (Expl other or problem	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 10 NRCS Hydric	Bottom Depth 10 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A12 - Trick D S1 - Sandy M S4 - Sandy G S5 - Sandy R S6 - Stripped S7 - Dark Surter	Aquollic Hapluda a depth needed to document it Horizon 1 2 dicators (check it pedon fic is Sulfide Layers di Below Dark Surface ark Surface uck Mineral eyed Matrix doox Matrix ace (LRR R, MLRA 1499)	Color 10YR 10YR	Matrix (Moist) 2/2 4/2	% 100 92	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6): v Surface (LRR R MURA 1459) ICE (LRR R LURR K L) Matrix frace Surface Surface	Matrix CS=Coveres/Co dox Features %	Type Type C C A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S8 - Polyva S7 - Irin D F12 - Iron-h F19 - Piedn F21 - Red F TA6 - Messi TF12 - Ven Other (Expl other (Expl other or problem	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam



Project/Site:	Ridge Road			Wetland ID: W-2 Sample Point:
			50	
VEGETATION		ative species.)		
Tree Stratum (P	Plot size: 10 meter radius)			
No.		% Cover Dominan		Dominance Test Worksheet
1.	Populus tremuloides	50 Y	FAC	
2.	Acer negundo	10 N	FAC	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.	Prunus serotina	10 N	FACU	
4.	Ulmus americana	10 N	FACW	Total Number of Dominant Species Across All Strata: 4 (B)
5.	199			
6.	54	(88)		Percent of Dominant Species That Are OBL, FACW, or FAC:100% (A/B)
7.	SER	(998) (998)	**	
8.	200		-	Prevalence Index Worksheet
9.	1909	-	**	Total % Cover of: Multiply by:
10.	(M.E.	(See 1		OBL spp. 0 x 1 = . 0
	Total Cover =	80		FACW spp. 10 x 2 = 20
				FAC spp. 118 x 3 = 354
Sap*ng/Shrub St	tratum (Plot size: 5 meter radius)			FACU spp. 10 x 4 = 40
1.	RHAMNUS CATHARTICA	40 Y	FAC	UPL spp. 0 x 5 = 0
2.	*			355
3.	~		1	Total 138 (A) 414 (B)
4.	**			28100
5.	377 377		••	Prevalence Index = B/A = 3.000
6.	**			
7.			***	
8.	**	200		Hydrophytic Vegetation Indicators:
9.		(944) (944)		Yes X No Rapid Test for Hydrophytic Vegetation
10.				X Yes No Dominance Test is > 50%
10.			15.5	X Yes No Prevalence Index is ≤ 3.0 *
	Total Cover =	40	23	<u> </u>
SECTION AND THE	STOWN BE WILLIAM			Yes X No Morphological Adaptations (Explain) *
	lot size: 2 meter radius)	40 1/	FAC	Yes X No Problem Hydrophytic Vegetation (Explain) *
1.	Geum canadense	10 Y	FAC	* Indicators of hydric soil and wetland hydrology
2.	RHAMNUS CATHARTICA	5 Y	FAC	present, unless disturbed or problematic.
3.	Symphyotrichum lateriflorum	3 N	FAC	
4.	100			Definitions of Vegetation Strata:
5.			944	
6	10.9			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.	888 C 2 1 2 1 2 1 2 1 2 2 1 2 2 1 2 2 1 2	(##) (##)	i nt	at bleast regit (DDF), regalicess of regit.
8.	(MP		10.55	
9.	(44)	(***)	**	Sapling/Shrub - Woody plants less than 3 in. DBH and greater
10.	(##)	(1996)		than 3.28 ft. tall.
11.		1600		
12.	**	3-6		Herb - All herbaceous (non-woody) plants, regardless
13.	· · · · · · · · · · · · · · · · · · ·)(44)		of size, and woody plants less than 3.28 ft. tall.
14.	⊕	(184) (44)	144	
15.	*	(100)		Woody Vines - All woody vines greater than 3.28 ft. in height.
77.00	Total Cover =	18		(C)
	DATACON AND STATE OF THE STATE	11/059		
Woody Vine Stra	atum (Plot size: 10 meter radius)			
1.	**	(66) (66)		
2.	**	(600) (600)	ine.	
3.	(22) ()	(400) (800)	3-10	Hydrophytic Vegetation Present X Yes No
4.	(44)	10==00		
5.	160	((**) (**)	100	
	Total Cover =	0		
Remarks:	- Total Gover	0		17
iveillaiks.		19		
			46	
	i i			
Additional Re	emarks:			
	8			
				8



Project/Site: Applicant: Investigator #1: Soil Unit:	J. Kraemer Hayfield sil	Sara Lessner r It loam			igator #2:	NN	Stantec Project #:	0:		Date: County: State: Wetland ID:	09/20/17 Dane Wisconsin W-3
Landform: Slope (%):	Depression 0-2	1 Latitude	· N/A		ai Kellet: ongitude:	Concave N/A	е	Datum:	N/A	Sample Point: Community ID:	P-5 Wet Meadow
		ditions on the site t					ain in remarks)	Yes X		Section:	23
		or Hydrology si					Are normal circums		?	Township:	7N
		or Hydrology na	aturally pr	oblemat	ic?		X Yes	No		Range:	11E
SUMMARY OF									e Galle		
Hydrophytic Ve				X Yes				Hydric Soils I		Western Augustin	X Yes
Wetland Hydrol Remarks:			ha alimat	X Yes			ere wetter than norma				nd? X Yes
Kelliaiks.		were experienced						ai nom sune 1 -	August a	i. nowever, di	iei man normai
HYDROLOGY							للدرط أبائي والمست		or rus.	702 FV 40	
		ators (Check here	if indicat	ors are r	ot prese	nt)):			Cocondon		91
Primary:	A1 - Surface	Water			B9 - Wate	er-Stained	Leaves		Secondary	B6 - Surface Soi	Cracks
. 1	A2 - High Wa	ater Table		丘	B13 - Aqu	uatic Fauna	3		Ì	B10 - Drainage F	Patterns
l ×	A3 - Saturation B1 - Water M			-		rl Deposits ogen Sulfie			İx	B16 - Moss Trim C2 - Dry-Season	
Ė	B2 - Sedimer	nt Deposits		Ė	C3 - Oxid	ized Rhizo	spheres on Living Roots	·		C8 - Crayfish Bu	rrows
-	B3 - Drift Der B4 - Algal Ma						educed Iron duction in Titled Soils			C9 - Saturation \ D1 - Stunted or S	risible on Aerial Imagen
i i	B5 - Iron Dep			-		Muck Surf			IX	D2 - Geomorphic	
		on Visible on Aerial Im			Other (Ex	plain in Re	marks)			D3 - Shallow Aqu	
	B8 - Sparsely	y Vegetated Concave	Surface						IX	D4 - Microtopogr D5 - FAC-Neutra	
Field Observat	ions:						120 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Alterdacia	40.722.5		Same and the same
Surface Water		Yes X No	Depth:		(in.)						Tv. T.
Water Table Pr	esent?	X Yes No	Depth:		(in.)			Wetland Hyd	Irology P	resent? IX	Yes No
Saturation Pres	ent?	X Yes No	Depth:	4	(in.)	360					
Describe Record	ed Data (str	eam gauge, monitor	ring well, a	aerial pho	tos, previ	ous inspe	ctions), if available:	N/A			
Remarks:	- 10										
(A A S - 2 - 2 (B B - 2) - 2 (B B - 2)											
								×			
SOILS	Lower Ed. Co.								والمراء		25.25
SOILS Map Unit Name:		Hayfield silt loam	fe		ar de la	Si	eries Drainage Class	s: somewhat po	orly		
SOILS Map Unit Name: Taxonomy (Sub-	group):	Aquollic Hapludal		firm the absen	ea of indicators					Location: PL=Pore Lining.	V-Veta)
SOILS Map Unit Name: Taxonomy (Sub Profile Descrip	group):	Aquollic Hapludal		in the absen			centration, D=Depletion, RM=Raduce			Location PL=Pore Uning	u-v∡-u Texture
SOILS Map Unit Name: Taxonomy (Sub-	group): tion (Casate to	Aquollic Hapludal	e indicator or cor				centration, D=Depletion, RM=Raduce	ed Matrix, CS=Covered Co.		Location PL=Pore Uning.	u∍v∡⊹ı Texture {e.g. clay, sand, lo
SOILS Map Unit Name: Taxonomy (Sub- Profile Descrip Top	group): tion (Describe Bottom	Aquollic Hapludal	e indicator or cor	Matrix			certration, D=Depietion, RM=Raduce Ri	edox Features	ted Sand Grains;	1	Texture (e.g. clay, sand, lo silty clay loam
SOILS Map Unit Name: Taxonomy (Sub Profile Descrip Top Depth	group): tion (080741) Bottom Depth	Aquollic Hapludal	Color	Matrix (Moist)	%) (Type: C=Con	certrator, D-Depletor, RM-Raduce Ri Color (Moist)	edox Features	Type	1	Texture (e.g. clay, sand, lo
SOILS Map Unit Name: Taxonomy (Subprofile Descript Top Depth 0	group): tion (casobete Bottom Depth 4 18	Aquollic Hapludal te destructed to descript to Horizon 1 2	Color 10YR	Matrix (Moist) 2/1 5/1	% 100 90 	(Type: C=Con	certaion, D-Depieton, RM-Raduce Ri Color (Moist)	edox Features	Type C	Location	Texture (e.g. clay, sand, lo silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descrip Top Depth 0 4	group): tion (people) Bottom Depth 4 18	Aquollic Hapludal the depth resided to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 5/1 	% 100 90 	(Type: C=Con	Color (Moist) 5/6	edox Features % 10	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descrip Top Depth 0 4	group): tion (cesote to Bottom Depth 4 18	Aquollic Hapludal the depth reeded to document th Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 5/1 	% 100 90 	(Type: C=Con	Cortration D-Depieton RN-Reduced RI Color (Moist) 5/6	edox Features % 10	Type C C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descrip Top Depth 0 4	group): tion (Describe) Bottom Depth 4 18	Aquollic Hapludal the depth reeded to document th Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 2/1 5/1 	% 100 90 	10YR	Cortrain D-Ospieton RN-Roduce RI Color (Moist) 5/6 	MMMX CS=Co-matCo- edox Features % 10	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4	group): tion (peorte to Bottom Depth 4 18	Aquollic Hapludal the depth reeded to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 	(Type: C=Con	Cortation, D-Depision, RM-Raduce Ri Color (Moist) 5/6	ed Matrix CS=Coverad Coverad C	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descript Top Depth 0 4	group): tion (Caserbate Bottom Depth 4 18	Aquollic Hapludal the depth resided to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 	10YR	Cortration D-Depision RM-Reduce Ri Color (Moist) 	ed Matrix CS=Coverad Coverad C	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descript Top Depth 0 4	group): tion (cesetate Bottom Depth 4 18 Soil Field Ir A1- Histosol	Aquollic Hapludal the dephreeded to decorate the Horizon 1 2 ndicators (check h	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 re not prosser - Poly	10YR	Certain D-Depision RN-Reduce RI Color (Moist) 5/6): w Surface (LRR R, MLRA 1666	Marx CS=Co.eratC	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descript Top Depth 0 4	group): tion (cesotate Bottom Depth 4 18 Soil Field Ir A1- Histosol A2 - Histic Ep	Aquollic Hapludal the deph reeded to document the Horizon 1 2 ndicators (check h	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 re not pri \$8 - Polyi \$9 - Thin	10YR	Cortain D-Depision RM-Raduce RI Color (Moist) 5/6): w Surface (URR R. MURA 1496)	MARY CS=Co-restCo-redCo-redCox Features % 10 Indicators	Type C s for Proble A10 - 2 cm A16 - Coas	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descript Top Depth 0 4	group): tion (pescate Bottom Depth 4 18 Soll Field In A1- Histosol A2- Histic Ep A3- Black Hi	Aquollic Hapludal the deph resided to docurred the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 re not pri \$8 - Poty \$9 - Thin \$11 - Hig	10YR	Color (Moist) 5/6 IN Surface (JAR R, MURA 1498) Sands	Marix CS-CovandCovedox Features % 10 Indicators	Type C C is for Proble A10 - 2 cm A16 - Coas S3 - 5cm M 1	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descript Top Depth 0 4	group): tion (cesotate Bottom Depth 4 18 Soil Field Ir A1- Histosol A2 - Histic Ep	Aquollic Hapludal the dephreeded to document the Horizon 1 2 ndicators (check h pripadon istic en Sulfide	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90	10YR	Cortation, D-Depiston, RM-Reduced RI Color (Moist) 5/6): W Surface (LRR R, MLRA 1656) 2004 (LRR R, MLRA 1656) Sands Wineral (LRR K, L)	Marx CS=Co.eratC	Type C I for Proble A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (pescate Bottom Depth 4 18 Soll Field In A1- Histosol A2- Histic Ep A3- Black Hi A4- Hydroge A5- Stratifiee A11- Deplete	Aquollic Hapludal the deph resided to docurred the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90	10YR	Color (Moist) 5/6): W Surface (LRR R. MURA 1498) Sands Sands Mineral (LRR K. L) Matrix K.	Marix CS-CovandCovered Covered	Type C c for Proble A10 - 2 cm A16 - Coas S3 - 5 cm F37 - Dark S S8 - Polyva S9 - Thin D	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (cesetate Bottom Depth 4 18 Soil Field Ir A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Depleth	Aquollic Hapludal the dephreeded to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90 re not pro \$8 - Poly \$9 - Thin \$11 - Hin \$11 - Loan \$72 - Loan \$73 - Depl \$76 - Red \$76 - Red	10YR	Cortration, D-Depieton, RN-Reduced RI RI Color (Moist) 5/6): N Surface (LRR R, MLRA 1498) Sands Kineral (LRR K, L) Matrix ((face	Marx CS-Co-matCo-m	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (pescate Bottom Depth 4 18 Soll Field Ir A1- Histosol A2- Histo Ep A3- Black Hi A4- Hydroge A5- Stratifiec A11- Deplete A12- Thick E S1- Sandy M 44- Sandy G	Aquollic Hapludal the deph resided to docurrent the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	Marix CS-Co-madCo edox Features % 10 	Type C C Interpolation of the property of t	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (cesetate) Bottom Depth 4 18 Soli Field Ir A1- Histosol A2- Histic E; A3- Black H; A4- Hydroge A5- Stratified A12- Thick IC S1- Sandy R S5- Sandy R S5- Sandy R	Aquollic Hapludal the deph resided to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	Marx CS-Co-matCo	Type C C In Proble A10 - 2 cm A16 - Coas S3 - 5 cm N S7 - Dark S8 - Polyva S8 - Polyva S9 - Thin D F12 - Iron-F19 - Piedn F19 - Piedn F14 - Messh	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (cesetate Bottom Depth 4 18 Soli Field Ir A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete S1 - Sandy R S4 - Sandy G S5 - Sandy R S6 - Stripped	Aquollic Hapludal the deph resided to document th Horizon 1 2 ndicators (check h pipedon istic en Sulfide d Layers ed Below Dark Surfac Jark Surface fluck Mineral sleyed Matrix kedox i Matrix	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	edox Features % 10 Indicators	Type C G G G G G G G G G G G G	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (cesetate Bottom Depth 4 18 Soli Field Ir A1- Histosol A2 - Histic E; A3 - Black Hi A4 - Hydroge A5 - Stratified A11 - Deplete S1 - Sandy R S4 - Sandy G S5 - Sandy R S6 - Stripped	Aquollic Hapludal the deph resided to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	Mark CS-Co-macCo- edox Features % 10 Indicators	Type C C i for Proble A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-F F19 - Piedn F21 - Red I TA6 - Messi TF12 - Ven Other (Expl	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (cesetate) Bottom Depth 4 18	Aquollic Hapludal the deph reested to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 re not pri 88 - Poly S9 - Thin S11 - Hig F1 - Loan F2 - Loan F2 - Loan F3 - Depl F6 - Redc	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	Mark CS=Co-endCoendCoendCoendCoendCoendCoendCoendCo	Type C C if or Proble A10 - 2 cm A16 - Coas S3 - 5 cm N S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-I F19 - Piedn F21 - Red I TA6 - Messi TF12 - Ven Other (Expl pothric veget d d or problem	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub: Profile Descript Top Depth 0 4 NRCS Hydric	group): tion (cesetate) Bottom Depth 4 18	Aquollic Hapludal the deph resided to document th Horizon 1 2 ndicators (check h pipedon istic en Sulfide d Layers ed Below Dark Surfac Jark Surface fluck Mineral sleyed Matrix kedox i Matrix	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 icators a	% 100 90 re not pri 88 - Poly S9 - Thin S11 - Hig F1 - Loan F2 - Loan F2 - Loan F3 - Depl F6 - Redc	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	Mark CS-Co-macCo- edox Features % 10 Indicators	Type C C if or Proble A10 - 2 cm A16 - Coas S3 - 5 cm N S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-I F19 - Piedn F21 - Red I TA6 - Messi TF12 - Ven Other (Expl pothric veget d d or problem	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
SOILS Map Unit Name: Taxonomy (Sub; Profile Descrip Top Depth 0 4 NRCS Hydric X Restrictive Laye	group): tion (cesetate) Bottom Depth 4 18	Aquollic Hapludal the deph reested to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 2/1 5/1 	% 100 90 re not pri 88 - Poly S9 - Thin S11 - Hig F1 - Loan F2 - Loan F2 - Loan F3 - Depl F6 - Redc	10YR	Color (Moist) Color (Moist) 5/6): w Surface (LRR R, MLRA 1698) Sands Sunface (LRR R, LL) Matrix c fface Surface Surface Surface	Mark CS=Co-endCoendCoendCoendCoendCoendCoendCoendCo	Type C C if or Proble A10 - 2 cm A16 - Coas S3 - 5 cm N S7 - Dark S S8 - Polyva S9 - Thin D F12 - Iron-I F19 - Piedn F21 - Red I TA6 - Messi TF12 - Ven Other (Expl pothric veget d d or problem	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam



3,	Project/Site:	Ridge Road				Wetland ID: W-3 Sample Point: 1
Tree Stream (Pict size: 10 meter redus)						
Speckes Name		(Species identified in all uppercase are non-no	ative species	5.)		
1.	Tree Stratum (F		S Course D	ominant	lad Status	Dominance Test Worksheet
2	4	1 01/1				Domination Foot Frenchist
3.						Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
4						Humber of Boliman openes and all OBC, FAOTI, of FAO
Second Street			11.54	2111	207-	Total Number of Deminent Consider Agrees All Strate: 1 (D)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100%				CHI		Total Number of Dominant Species Across All Strata: 1 (B)
Prevalence Index Worksheet						
B			1000	HARE		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
9		**		et m		
10.		_ ##	**	10.0		Prevalence Index Worksheet
Saping/Shrub Stratum (Plot size. 5 meter radius)	9.	34	(500)	100	ān)	Total % Cover of. Multiply by:
FAC spp. 0	10.	mm _	388	**	200	OBL spp. 2 x 1 = 2
Septing/Strub Stratum (Plot size: 5 mater radius)		Total Cover =	0			FACW spp. 80 x 2 = 160
Sapting/Strub Stretum (Plot size: 5 meter radius)						FAC spp. 0 x 3 = 0
1	Sapling/Shrub S	tratum (Plot size: 5 meter radius)				
Total 82 (A) 162 (B)						
3		W-1				
4,						Total 82 (A) 162 (B)
S. Prevalence Index = B/A = 1.976			-	194)		100 (0)
6.			56.4	555	546	Drovalance Index - DIA - 1 076
7						Frievalence index = B/A = 1.970
B.			-3.0	400	7.00	
S		020	0.99			A ADDITION OF THE PROCESSING AS A CONTRACT OF THE PROCESSING A
Total Cover = 0						
Total Cover = 0		*	160		t-1	
Herb Stratum (Plot size: 2 meter radius)	10.	98		**	/ ···	
Herb Stratum (Plot size: 2 meter radius)	8	Total Cover =	0			X Yes No Prevalence Index is ≤ 3.0 *
1. PHALARIS ARUNDINACEA 80 Y FACW 2. Carex stricta 2 N OBL 3						Yes X No Morphological Adaptations (Explain) *
1. PHALARIS ARUNDINACEA 80 Y FACW 2. Carex stricta 2 N OBL 3	Herb Stratum (P	lot size: 2 meter radius)		<u> </u>	3.5	Yes X No Problem Hydrophytic Vegetation (Explain) *
2 Carex stricta 2 N OBL Indicators of hydros sol and welland hydrosol and hydrosol and welland hydrosol and hydros			80	Y	FACW	90000 #8850 #8000 #8000 #80 #80 #80 #80 #80 #80 #8
3			2	N	OBL	* Indicators of hydric soil and wetland hydrology m
4,						present, unless disturbed or problematic.
5				_		Definitions of Vegetation Strata:
Tree - Woody plants 3 in, (7.6cm) or more in d at breast height (DBH), regardless of he stress theight (DBH), regardless of he stress			1111-1			Definitions of Vegetation on the
7						Tree - Woody plants 3 in (7 6cm) or more in diameter
8						
9			0.75			
10						A WAR THE THE PARTY OF PRINCIPLE
10				(HH	***	Sapling/Shrub - Woody plants less than 3 in. DBH and greater
12		**	1969	**	**	Dian 3.20 (L tail,
13		**	**	-		2
14		8H		**		Herb - All herbaceous (non-woody) plants, regardless
Woody Vines - All woody vines greater than 3.28 ft. in https://doi.org/10.1001/10.10	13.	**	-	1811		of size, and woody plants less than 3.28 ft. tall.
Woody Vines - All woody vines greater than 3.28 ft. in https://doi.org/10.1001/10.10	14.	35		**		· ·
Total Cover = 82 Woody Vine Stratum (Plot size: 10 meter radius) 1		*	**			Woody Vines - All woody vines greater than 3.28 ft. in height.
Woody Vine Stratum (Plot size: 10 meter radius)		Total Cover =	82			
Woody Vine Stratum (Plot size: 10 meter radius)		A SACTOR AND A SAC	200- <u></u>			% × ×
1	Woody Vine Stra	atum (Plot size: 10 meter radius)				
2			View.			
3 Hydrophytic Vegetation Present X Yes 4				21100		
4						Hydrophytic Vegetation Brosent V Voc C No.
5				1000		프로스트 아이들은 그 것 같아요. 그 나는 사람들은 아이들은 아이들은 그 그 그 그 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은
Total Cover = 0 Remarks:			-			
Remarks:	5.			***	200	
Remarks.		Total Cover =	0	*	96	
	Remarks:				34	
Additional Remarks:						
Additional Remarks:						
	Additional Re	emarks:				



Are Ungelation Soil or Hydrology flat price of this time of year? Are Negelation Soil or Hydrology flat price of the state Soil Soil Or Hydrology flat price of the state Soil Or Hydrology flat price of the state Soil Or Hydrology flat price of the state Soil Soil Or Hydrology Team? Soil So	0 111 11	: J. Kraemer	Sara Lessner		Invest	igator #2	:				County: State:	Dane Wisconsin
Slope (95): 3-4 Laflude: N/A Longitude: N/A Longitude: N/A Community (15 Upland S Are Climaticity-forbogic conditions on the site typical for this time of year? Tox sprish membra)		150	loam						n: N/A		Wetland ID:	
Are Useplation (Soil or Hydrology) indirectory (southern of year) (prox. septon seans)								(N 350
Are Vegetation Soil or Hydrology significantly disturbed? Are normal circumstances present? Township: TN Are Vegetation Soil or Hydrology Township: TN Are Vegetation Soil or Hydrology Township: TN Are Vegetation Soil or Hydrology Township: Two Township: TN Are Vegetation Township: Two	1050000	II SPORTMORE AND A STATE OF THE	OF THE STATE OF				2012-07-07-0				Upland Shrub-S	
Are Vegletation Soil Or Hydrology naturally problematic? X Yes No Range 11E SUMMARY OF PINDINGS Hydrolytike Vegletation Present? Yes X No Hydric Soils Present? Remarks: Based on a WETS enabyis, the climatichytrologic conditions were wetter than normal from June 1 - August 31. However, drier than normal							(If no, exp				1	
SUMMARY OF FINDINGS Hydrophytic Vegelation Present? Yes IX No Hydrophytic Vegelation Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Indicators (Check here if indicators are not present [X]): Pressure As Surface Water A Subtract Water B Subtract W							1			IL?	N	
Hydric Soils Present? Yes X No			or riyarology) na	atorany pa	Obiciliat	101	d.	IN TOO	7 110	000 = 0	range.	110
Weltand Hydrology Present? Yes X No Satisfies Sampling Port Within A Weltand Processing Sand on a WETS analysis, the climatichydrologic conditions were wetter than normal from June 1 - August 31. However, drier than no conditions were experienced from September 1 - 19 prior to the field investigation. HYDROLOGY Weltand Hydrology Indicators (Check here if Indicators are not present)			sent?		Yes	Y No	(a)	Market Co.	Hydric Soils	Present?	北京 新 	Yes X
Remarks: Based on a WETS enalysis, the climatic/hydrologic conditions were wetter than normal from June 1 - August 31. However, drier than normal conditions were experienced from September 1 - 19 prior to the field investigation. Hydrology Indicators (Check here if indicators are not present Y	1 1756 SE SESSION	200	5 - 2 5-2	No. 188								
HYOROLOGY Wetland Hydrology Indicators (Check here if indicators are not present)\(\) : A1 - Surface Water		Based on a	WETS analysis t	he climat				ere wetter than norm	al from June 1	- August 3	1 However dr	ier than normal
Wetland Hydrology Indicators (Check here if indicators are not present												
Primacy A1 - Surface Water Table A2 - High Water Table B3 - Aqualic Fauna B13 - Aqualic Fauna B14 - Aqualic Fauna B15 - March Exposits B1 - Water Marks B1 - Nard Deposits B1 - Water Marks B1 - Nard Deposits B1 - Water Marks B2 - Seathment Deposits B2 - Seathment Deposits B3 - Seathment Deposits B3 - Horizone Marks B3 - Seathment Deposits B3 - Horizone Marks B3 - Horizone Marks B3 - Horizone Marks B3 - Horizone Marks B3 - Horizone Marks B3 - Horizone Marks B3 - Horizone Marks B3 - Sparsesy Vegetated Concave Surface B3 - Sparsesy Vegetated Concave Surface B3 - Sparsesy Vegetated Concave Surface B3 - Sparsesy Vegetated Concave Surface B3 - Sparsesy Vegetated Concave Surface B3 - Sparsesy Vegetated Concave Surface B3 - Sparsesy Vegetated Concave Surface B4 - Read Water Present? B5 - Sparsesy Vegetated Concave Surface B5 - Sparsesy Vegetated Concave Surface B6 - Surface Soil Crecks B16 - Note Status In Remarks B17 - Invadation Visible on Actival Imagery B5 - Sparsesy Vegetated Concave Surface B7 - Invadation Visible on Activation Remarks B6 - Sparsesy Vegetated Concave Surface B7 - Invadation Visible on Activation Remarks B6 - Sparsesy Vegetated Concave Surface B7 - Invadation Visible on Activation Remarks B6 - Sparsesy Vegetated Concave Surface B7 - Invadation Visible on Activation Remarks B7 - Invadation Visible on Activation Remarks B7 - Invadation Rema	CONTRACTOR OF THE PARTY OF THE		HI KIT WATER							N. C. S.	31-25-26 E	
A1 - Surface Water A2 - High Water Table B3 - Aquatic Fatures B15 - Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart Deports B15 - Mart Mart B16 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B15 - Mart Mart B17 Peports B16 - Mart Mart B17 Peports B17 Peports B18 - Appill Mart B17 Peports B18 - Appill Mart B17 Peports B19 - Mart B17 Peports B19 - Mart B17 Peports B19 - Mart B17 Peports B19 - Mart B17 Peports B19 - Mart B17 Peports B10 - Mart B17 Pepor			ators (Check here	if indicat	ors are r	ot prese	nt(x):					
A2 - High Water Table	Primary		Water		Т	R9 - Wate	er-Stainer	Heaves		Secondary:		Cracks
B1- Water Marks B2- Sediment Deposits B3- Ontif Deposits B3- Ontif Deposits B3- Ontif Deposits B3- Ontif Deposits B3- Ontif Deposits B3- Ontif Deposits B3- Ontif Deposits B3- Ontif Deposits B5- Iron Deposits B5- Iron Deposits B5- Iron Deposits B5- Iron Deposits B5- Iron Deposits B6- Sparsey Vegetated Concave Surface B7- Inundation visible on Aerial Imagery B8- Sparsey Vegetated Concave Surface B8- Sparsey New Year Concave Surface B8- Sparsey New Year Concave Surface B8- Sparsey New Year Concave Surface B9- Trip Date Surface passes was surf	i i	A2 - High Wa	ter Table		Ė	B13 - Aq	uatic Faur	na		Ē		
E32 - Sediment Deposits B3 - Drift Deposits B4 - Aygla Mat or Crust B5 - Iron Deposits B5 - Iron Deposits B7 - Irundation Visibio on Aerial Imagery B8 - Sprayely Vegetated Concave States B7 - Irundation Visibio on Aerial Imagery B7 - Irundation Visibio on Aerial Imagery B7 - Irundation Visibio on Aerial Imagery B7 - Irundation Visibio on Aerial Imagery B7 - Irundation Visibio on Aerial Imagery B7 - Irundation Visibio B7 - Irundation Visibio B7 - Irundation Visibio B7 - Irundation Visibio B7 - Irundation Visibio B7 - Irundation V	Ę											
B3 - Drift Deposits B4 - Agal Mor of Crust B5 - Iron Deposits B5 - Iron Deposits B5 - Iron Deposits B5 - Iron Deposits B6 - Sparsely Vegetated Concave Surface Field Observations: Field Observation	F				-				8/	H		
B5 - Inno Deposits					Ė						C9 - Saturation V	isible on Aerial Imag
B8 - Sparsely Vegetated Concave Surface Other (Explain in Remarks) D3 - Shatlow Aquitant D4 - Microtopographic Reset D5 - FAC-Neutral Test D6 - FAC-Neutral Test D7 - FAC-Neutral Test D8 - Sparsely Vegetated Concave Surface D8 - FAC-Neutral Test D8 -	, <u>[</u>									1_		
B8 - Sparsely Vegetated Concave Surface	H			agery	F					-		
Field Observations: Surface Water Present? Yes X No Depth: (in.) Water Table Present? Yes X No Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: SOILS Map Unit Name: Hayfield silt loam Series Drainage Class: somewhat poorly Taxonomy (Subgroup): Aquelliot Hapludalfs Profile Describe segeneeds absocretize holder or confine between finded to 1) (the Color (Moist) Top Bottom Depth Horizon Color (Moist) 0 15 1 10VR 3/2 100 Sill 15 18 2 10VR 4/3 100 Sill 15 18 2 10VR 4/3 100 Sill 15 18 2 10VR 4/3 100 Sill 15 18 2 10VR 4/3 100 Sill 16 18 2 10VR 4/3 100 Sill 17 10 10 10 10 10 10 10 10 10 10 10 10 10	i i					Outer (E	фанит	Cindikaj		i		
Surface Water Present? Yes X No Depth: (in.) Depth: (in.) Depth: (in.) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: SOILS Map Unit Name: Hayfield silt loam Series Drainage Class: somewhat poorly: Texonomy (Subgroup): Aquoilic Hapludalis Profile Description describes the experimental socient in the series of indicators of control between indica		35-107-11 XXXIII XXXII XXXII XXXII	and the second s							[_	D5 - FAC-Neutra	l Test
Water Table Present? Yes X No Depth: (in.) Saturation Present? Yes X No Depth: (in.) Describe Recorded Data' (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: SOILS Map Unit Name: Hayfield silt loam Series Drainage Class: somewhat poorly Taxonomy (Subgroup): Aquollic Hapludal's Profile Description (peoclast bits deprived to dourset te indicator or confine serviced floation), (tipse Concentration Debption, sur-Redoct Max; Cisconeres/Cated Sand Gare; Lucion Re-Pour Lings M-March) Top Bottom Depth Horizon Color (Moist) % Color (Moist) % Type Location (e.g. clay 0 15 1 107R 3/2 100 sill 15 18 2 107R 4/3 100 sill 15 18 2 107R 4/3 100	Field Observa	tions:								6-1-1	V7-1-0-1	E-entire in 4
Saturation Present? Yes X No Depth: (in.) Describe Recorded Data* (stream gauge, monitoring well, aerial photos, previous inspections), if available: N/A Remarks: SOILS Map Unit Name: Hayfield sitt loam Series Drainage Class: somewhat poorly Taxonomy (Subgroup): Aquollic Hapludalfs Profile Description Consortes to expressed to express	Surface Water	Present?	Yes X No	Depth:		(in.)	8	wall above the term	Wetland Hy	drology P	recent?	Vec V No
Describe Recorded Data' (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: SoilLS									victiana m	diologyii	Cacinti	res IX NO
Describe Recorded Data* (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: SollS Map Unit Name:	Saturation Pres	sent?	Yes X No	Depth:		(in.)		FACTORISM AND	· Trade links V		direction of the rest	42.54
Map Unit Name: Hayfield silt loam Series Drainage Class: somewhat poorly	Remarks:		U.									
Map Unit Name: Hayfield silt loam Series Drainage Class: somewhat poorly												
Texonomy (Subgroup): Aquollic Hapludalfs Profile Description (peeches be adopt receded to connect reindestar or comin the absenced industra). (Type Connectation, Disciplation, RN-Redocd Mattix CS-Connectation Stand Grains. Location Rivers Lining Mattrix Top Bottom	BORNOS.										17	100 100
Profile Description Descri	No. Control of the Co					4			- L (B)0-1			
Top Depth Depth Horizon Color (Moist) % Color (Moist) % Type Location (e.g. clay Color (Moist) Type Location (e.g. clay Color (Moist) % Type Location (e.g. clay Color (Moist) Type Location (e.g. clay Color (Moist	Map Unit Name			6.		3		Series Drainage Clas	s: somewhat p	oorly	12 V	
Depth Depth Horizon Color (Molst) % Color (Molst) % Type Location (e.g. clay Color (Molst) Type Locati	Map Unit Name Taxonomy (Sub	group):	Aquollic Hapludal			3	19					
NRCS Hydric Soil Field Indicators (check here if indicators are not present X):	Map Unit Name Taxonomy (Sub Profile Descrip	group): tion (Describe to 9	Aquollic Hapludal			ce of indicators	19	ncertation, D=Depieton, RV=Reduc	ed Metric CS=Covered C	Coded Sand Grains;	Location PL=Pure Lining	
15 18 2 10YR 4/3 100 Silty of the control of t	Map Unit Name Taxonomy (Sub Profile Descrip Top	group): tion (Describe to the Bottom	Aquollic Hapludal	e indicator or co	Matrix		19	ncertration, D=Depiation, RV=Reduc R	ಟ್ರಗಳು cs=ರೂಕವರ Redox Features	coated Sand Grains;	41	Texture
NRCS Hydric Soil Field Indicators (check here if indicators are not present X): A1- Histosol A2- Histic Epipedon A3- Black Histic A4- Hydrogen Suffide A5- Stratified Layers A1- Depleted Below Dark Surface A1- Depleted Below Dark Surface A1- Thick Dark Surface S1- Sandy Muck Mineral S5- Sandy Redox S6- Stripped Matrix S7- Dark Surface (LRR K, LRR) S5- Sandy Redox S6- Stripped Matrix S7- Dark Surface (LRR K, LRR) S5- Sandy Redox S6- Stripped Matrix S7- Dark Surface (LRR K, LRR) S7- Dark Surface S6- Stripped Matrix S7- Dark Surface S6- Stripped Matrix S7- Dark Surface S6- Stripped Matrix S7- Dark Surface S6- Stripped Matrix S7- Dark Surface S6- Stripped Matrix S7- Dark Surface S6- Stripped Matrix S7- Dark Surface S6- Stripped Matrix S7- Dark Surface (LRR K, LR) S7- Dark Surface S6- Stripped Matrix S7- Dark Surface (LRR K, LR) S7- Dark Surface (LRR K, LR) S7- Dark Surface S6- Stripped Matrix S7- Dark Surface (LRR K, LR) S7- Dark Surface S6- Stripped Matrix S7- Dark Surface (LRR K, LR) S7- Dark Surface S6- Stripped Matrix S7- Dark Surface (LRR K, LR) S7- Dark Surface (LRR K,	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): tion (Describe to the Bottom Depth	Aquollic Hapludal adaph record to document to Horizon	Color	Matrix (Moist)	%) (Type C=Co	ncertration D=Depletion RV=Reduc R Color (Moist)	Redox Features	togged Sand Grains; S Type	Location	Texture (e.g. clay, sand,
NRCS Hydric Soil Field Indicators (check here if indicators are not present X): A1- Histosol A2- Histic Epipedon A3- Black Histic A4- Hydrogen Suffide A5- Stratified Layers A1- Depleted Below Dark Surface A11- Depleted Below Dark Surface A12- Thick Dark Surface A13- Stratified Layers A14- Thick Dark Surface A15- Stratified Layers A16- Coast Prairie Redox (LRR K. LR) A17- Thick Dark Surface (LRR K. LR) A18- Stratified Layers A19- Coast Prairie Redox (LRR K. LR) A11- Depleted Below Dark Surface A11- Depleted Below Dark Surface A12- Thick Dark Surface A13- Park Surface (LRR K. LR) A14- Thick Dark Surface A15- Coast Prairie Redox (LRR K. LR) A16- Coast Prairie Redox (LRR K. LR) A17- Thick Dark Surface (LRR K. LR) A18- Coast Prairie Redox (LRR K. LR) A19- Com Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A16- Coast Prairie Redox (LRR K. LR) A17- Thigh Dark Surface (LRR K. LR) A18- Coast Prairie Redox (LRR K. LR) A19- Com Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- Coast Prairie Redox (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- 2 cm Muck (LRR K. LR) A10- Coast Prairie Redox (LRR K. LR) A10- Coast Prairie Redox (LRR K. LR) A10- Coast Prairie Redox (LRR K. LR) A10- Coast Prairie R	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	group): tion (Describe to a Bottorn Depth	Aquollic Hapludal adeph record to document the Horizon 1	Color 10YR	Matrix (Moist) 3/2	% 100) (Type C=Co	ncentration, D=Depletion, RV=Reduc R Color (Moist)	Redox Features	ooded Sand Grains; S Type	Location	Texture (e.g. clay, sand, silt loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present X): A1- Histosol A2- Histic Epipedon A3- Black Histic A4- Hydrogen Sulfide A5- Stratified Layers A1- High Chroma Sands A5- Stratified Layers A1- Depleted Below Dark Surface A1- Popleted Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Below Dark Surface A1- Popleted Dark Surf	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): stion (Describe to a Bottorn Depth 15 18	Aquollic Hapludal Adoptineded to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/3	% 100 100) (Type C=Cc	Color (Moist)	Redox Features	toded Sard Grains;	Location 	Texture (e.g. clay, sand, silt loam
NRCS Hydric Soil Field Indicators (check here if indicators are not present X): A1- Histosol A2- Histic Epipedon S9- Thin Dark Surface (LRR R, MURA 1459) A3- Black Histic A4- Hydrogen Suffide A5- Stratified Layers A1- High Chroma Sands A5- Stratified Layers A1- Depleted Below Dark Surface A1- Depleted Below Dark Surface S1- Sandy Muck Mineral A1- Depleted Below Dark Surface S1- Sandy Muck Mineral F7- Depleted Matrix S1- Sandy Muck Mineral F7- Depleted Dark Surface S1- Sandy Muck Mineral F7- Depleted Dark Surface F7- Depleted Dark Surface F1- Red Parent Material F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- Red Dark Surface F1- R	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): stion (Depth 15 18 -	Aquollic Hapludal Adoptive depth record to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/3	% 100 100) (Type: C=Co	Color (Moist)	Redox Features	Type	Location 	Texture (e.g. clay, sand, silt loam silty clay loa
NRCS Hydric Soil Field Indicators (check here if indicators are not present X): A1- Histosol S8 - Polyvalue Below Surface (LRR R. MURA 1459) A10 - 2 cm Muck (LRR K. L. MURA 1459) A10 - 2 cm Muck (L	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): stion (December 18	Aquollic Hapludal e dephreeded to document the Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/3 	% 100 100) (Type: C=Cc	Color (Moist)	Redox Features	Type	Location	Texture (e.g. clay, sand, silt loam silty clay loa
NRCS Hydric Soil Field Indicators (check here if indicators are not present X): A1- Histosol A2 - Histic Epipedon A3 - Black Histic A4 - Hydrogen Sulfide A5 - Stratified Layers A5 - Stratified Layers A1 - Depleted Below Dark Surface A1 - Depleted Below Dark Surface A1 - Trick Dark Surface F6 - Redox Dark Surface S1 - Sandy Muck Mineral F7 - Depleted Dark Surface F8 - Redox Depressions F1 - Redox Depressions F1 - Redox Depressions F1 - Redox Dark Surface F1 - Redox Depressions F1 - Redox Dark Surface F1 - Redox Dark Surface F1 - Redox Depressions F1 - Redox Depressions F1 - Redox Dark Surface F1 - Redox Depressions F1 - Depleted Dark Surface F1 - Redox Dark Surface F1 - Redox Depressions F1 - Redox Dark Surface F1 - Redox Dark Surfa	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): etion (Describer) Bottorn Depth 15 18	Aquollic Hapludal deprived to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100) (Type C=Cc	Color (Moist)	Redox Features	costed Sand Grains:	Location	Texture (e.g. clay, sand, silt loam silty clay loa
A1- Histosol S8 - Polyvalue Below Surface (IRR R, MERA 1459) A10 - 2 cm Muck (IRR K, L, MERA 1459) A2 - Histic Epipedon S9 - Thin Dark Surface (IRR R, MERA 1459) A16 - Coast Prairie Redox (IRR K, L, R) A3 - Black Histic S11 - High Chroma Sands S3 - Scm Mucky Peat of Peat (IRR K, L, R) A4 - Hydrogen Sulfide F1 - Loamy Mucky Mineral (IRR K, L) A5 - Stratified Layers F2 - Loamy Gleyed Matrix S8 - Polyvalue Below Surface (IRR K, L) A11 - Depleted Below Dark Surface F3 - Depleted Matrix S9 - Thin Dark Surface (IRR K, L) A12 - Thick Dark Surface F6 - Redox Dark Surface F12 - Iron-Manganese Masses (IRR K, L, R) S1 - Sandy Muck Mineral F7 - Depleted Dark Surface F19 - Piedmont Floodplain Soils (VIRA 1459) S5 - Sandy Redox F21 - Red Parent Material S5 - Sandy Redox F21 - Red Parent Material S6 - Stripped Matrix F8 - Redox Depressions F12 - Very Shallow Dark Surface S6 - Stripped Matrix T712 - Very Shallow Dark Surface Other (Explain in Remarks) Postdething Layers Redox Dark Surface (IRR R, MIRA 1459) Postdething Layers A10 - 2 cm Muck (IRR K, L, MIRA 1459) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A17 - Coast Prairie Redox (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): stion (Described or Depth 15 18	Aquollic Hapludal deprived to downed the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100) (Type: C=Cc	Color (Moist)	ed Matrix CS=Co.erastr Redox Features % 	Type	Location	Texture (e.g. clay, sand, silt loam silty clay loa
A1- Histosol S8 - Polyvalue Below Surface (IRR R, MERA 1459) A10 - 2 cm Muck (IRR K, L, MERA 1459) A2 - Histic Epipedon S9 - Thin Dark Surface (IRR R, MERA 1459) A16 - Coast Prairie Redox (IRR K, L, R) A3 - Black Histic S11 - High Chroma Sands S3 - Scm Mucky Peat of Peat (IRR K, L, R) A4 - Hydrogen Sulfide F1 - Loamy Mucky Mineral (IRR K, L) A5 - Stratified Layers F2 - Loamy Gleyed Matrix S8 - Polyvalue Below Surface (IRR K, L) A11 - Depleted Below Dark Surface F3 - Depleted Matrix S9 - Thin Dark Surface (IRR K, L) A12 - Thick Dark Surface F6 - Redox Dark Surface F12 - Iron-Manganese Masses (IRR K, L, R) S1 - Sandy Muck Mineral F7 - Depleted Dark Surface F19 - Piedmont Floodplain Soils (VIRA 1459) S5 - Sandy Redox F21 - Red Parent Material S5 - Sandy Redox F21 - Red Parent Material S6 - Stripped Matrix F8 - Redox Depressions F12 - Very Shallow Dark Surface S6 - Stripped Matrix T712 - Very Shallow Dark Surface Other (Explain in Remarks) Postdething Layers Redox Dark Surface (IRR R, MIRA 1459) Postdething Layers A10 - 2 cm Muck (IRR K, L, MIRA 1459) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A16 - Coast Prairie Redox (IRR K, L, R) A17 - Coast Prairie Redox (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark Surface (IRR K, L, R) A17 - Dark	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Describes and Depth 15 18	Aquollic Hapludal a depth receiled to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100) (Type: C=Cc	Color (Moist)	ed Matrix CS=Co.erastr Redox Features % 	Type	Location	Texture (e.g. clay, sand, silt loam silty clay loa
A3 - Black Histic S11 - High Chroma Sands S1 - 5cm Mucky Peat of Peat (LRR K, LR) A4 - Hydrogen Sulfide F1 - Loamy Mucky Mineral (LRR K, L) A5 - Stratified Layers F2 - Loamy Gleyed Matrix S8 - Polyva'ue Below Surface (LRR K, L) A11 - Depleted Below Dark Surface F3 - Depleted Matrix S9 - Thin Dark Surface (LRR K, L) A12 - Thick Dark Surface F6 - Redox Dark Surface F12 - Iron-Manganese Masses (LRR K, LR) S1 - Sandy Muck Mineral F7 - Depleted Dark Surface F12 - Iron-Manganese Masses (LRR K, LR) S1 - Sandy Gleyed Matrix F8 - Redox Depressions F19 - Piedmont Floodplain Soils (VLRA 1459) S5 - Sandy Redox F8 - Redox Depressions F14 - Red Parent Material S5 - Sandy Redox T746 - Mes'ic Spodic (LRR K, LR) S6 - Stripped Matrix T7512 - Very Shallow Dark Surface Other (Explain in Remarks) Indicators of hydrophy cegelation and wat and war a	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Describes to The State of The	Aquollic Hapludal a depti receled to document the Horizon 1 2	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100) (Type C=Co	Color (Moist)	wed Matrix CS=Covered of Red C	Coded Sand Grains:	Location	Texture (e.g. clay, sand, silt loam silty clay loa
A4 - Hydrogen Sulfide	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (peech by Bottom Depth 15 18 Soil Field In A1- Histosol	Aquollic Hapludal Horizon 1 2 dicators (check h	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100 re not pri) (Type C=Cc	Color (Moist)	Red Metal CS=CoursesCou	Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type Type	Location matic Soils ¹ Muck (ARK L MARK	Texture (e.g. clay, sand, silt loam silty clay loa
A5 - Stratified Layers F2 - Loamy Gleyed Matrix S8 - Polyva'ue Below Surface (LRR K, I)	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Describe) Bottom Depth 15 18 Soil Field In A1- Histosol A2 - Histic Ep	Aquollic Hapludal e deph receded to document the Horizon 1 2 dicators (check h	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100 re not pri 88 - Poly S9 - Thin	esent X	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	Type Type Type A10 - 2 cm A16 - Coast	Location matic Soils Muck (LORK L. MARA Prairie Redox (LOR	Texture (e.g. clay, sand, silt loam silty clay loa
A11 - Depleted Below Dark Surface F3 - Depleted Matrix S9 - Thin Dark Surface (LRR K, L. R) A12 - Thick Dark Surface F6 - Redox Dark Surface F12 - Iron-Manganese Masses (LRR K, L. R) S1 - Sandy Muck Mineral F7 - Depleted Dark Surface F19 - Piedmont Floodplain Soils (NURA 1439) S4 - Sandy Gleyed Matrix F8 - Redox Depressions F21 - Red Parent Material S5 - Sandy Redox TA6 - Mesic Spodic (NURA 1439) S6 - Stripped Matrix T712 - Very Shallow Dark Surface S7 - Dark Surface (LRR R, MURA 1439) Thicketors of hydrophytic vegetation and wetland hydrology must be juilted on croblematic.	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	Bottom Depth 15 18 Soil Field In A1 - Histosol A2 - Histo E A3 - Black Hist	Aquollic Hapludal e deph receded to document the Horizon 1 2 dicators (check h	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100 re not pri 88 - Polyp 89 - Thin S11 - Hig	esent X	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	Type Type	Location matic Soils Muck LIRIK L MURA Praine Redox LIRI voky Peat of Peat	Texture (e.g. clay, sand, silt loam silty clay loa
S1 - Sandy Muck Mineral F7 - Depleted Dark Surface F19 - Piedmont Floodplain Soils (vurs 1499) S4 - Sandy Gleyed Matrix F8 - Redox Depressions F21 - Red Parent Material F8 - Redox Depr	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Described in Depth 15 18	Aquollic Hapludal be depriveded to document the Horizon 1 2 dicators (check helpedon stic stic stic sulfide Layers	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100 	esent X Sur h Chromen h Chromen y Mucky ny Gleyed	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	Type Type	Location	Texture (e.g. clay, sand, silt loam silty clay loa
S4 - Sandy Gleyed Matrix F8 - Redox Depressions F1 - Red Parent Material TA6 - Mesic Spodic (MAR 1448) S6 - Stripped Matrix S7 - Dark Surface (MAR 1448) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be a disturbed or croblematic.	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	Bottom Depth 15 18	Aquollic Hapludal e deph receded to document the Horizon 1 2 dicators (check h depedon stiffde Layers d Below Dark Surface	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100	esent X Value Bek Dark Sur h Chromany Mucky ny Gleyed	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	Type Type Type To for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyval S9 - Thin Da S9 - Thin Da	Location Location Location Muck (IRR K L MURA Prairie Redox (IRR UCKY Peat of Peat Urface (IRR K L M) Urface (IRR K L M) Surface (IRR K L M)	Texture (e.g. clay, sand, silt loam silty clay loa
S5 - Sandy Redox S6 - Stripped Matrix S7 - Dark Surface (LR3 R, MLRA 1459) Other (Explain in Remarks) Posterior than 1 discators of hydrophytic vegetation and wetland hydrology must be pure discharged on croblematic.	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	Bottom Depth 15 18	Aquollic Hapludal Horizon 1 2 dicators (check h spedon stic n Sulfide Layers al Below Dark Surface	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100 re not pro 88 - Poty 89 - Thin S11 - Hig F1 - Loan F2 - Loan F2 - Coan F3 - Depl	esent X Sur Macky ny Gleyed eted Matrox Dark S Dark	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	Type Type Type For Proble A10 - 2 cm A16 - Coast S3 - 5cm IM S7 - Dark Si S8 - Polyval S9 - Thin Da F12 - Iron-M	Location	Texture (e.g. clay, sand, silt loam silty clay loa
S7 - Dark Surface (LRR R, MLRA 1499) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be a disturbed or problematic.	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Describe to Williams): Bottom Depth 15 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black High A4 - Hydroge A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M	Aquollic Hapludal Horizon 1 2 dicators (check h ipedon stic n Suffide Layers d Below Dark Surface auk Surface uck Mineral	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100	esent X value Beke Dark Sur h Chromany Mucky yny Gleyedeted Matrox Dark S eted Dark S	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	rs for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyva' S9 - Trin Da F12 - Iron-M	Location	Texture (e.g. clay, sand, silt loam silty clay loa
Indicators of hydrophytic vegetation and wetland hydrology must be a disturbed or problematic.	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	Bottom Depth 15 18 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S4 - Sandy G	Aquollic Hapludal Horizon 1 2 dicators (check h ipedon stylide Layers d Best Agent Agent Agent Layers dayed Matrix	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100	esent X value Beke Dark Sur h Chromany Mucky yny Gleyedeted Matrox Dark S eted Dark S	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	rs for Proble A10 - 2 cm I A16 - Coast S3 - 5cm IM S7 - Dark Si S8 - Polyval S9 - Thin Da F12 - Iron-M F19 - Piedm F14 - Red P TA6 - Mesic	Location	Texture (e.g. clay, sand,
Gsturted or croblemate	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Described by Bottom Depth 15 18	Aquollic Hapludal Horizon 1 2 dicators (check h ipedon stic n Sulfide Layers d Below Dark Surface auk Surface auk Mineral leyed Matrix edox Matrix	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100	esent X value Beke Dark Sur h Chromany Mucky yny Gleyedeted Matrox Dark S eted Dark S	Color (Moist) Color (Moist)	Red Metal CS=CoursesCou	rs for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyva' S9 - Trin Da F12 - Iron-M F13 - Priedm F21 - Red P TA6 - Mesic TF12 - Very	Muck (MRK L MAR Prairie Redox (MR Prairie Redox (MR Muck (MRK L MAR Prairie Redox (MR Mar) Uck Peat of Peat Urface (MRR L M) Use Below Surface ark Surface (MRR Janganese Masse ont Floodplain So arent Material Spodic (MRR JANA Shallow Dark Sur	Texture (e.g. clay, sand,
Posterior and a second	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15	group): tion (Described by Bottom Depth 15 18	Aquollic Hapludal Horizon 1 2 dicators (check h ipedon stic n Sulfide Layers d Below Dark Surface auk Surface auk Mineral leyed Matrix edox Matrix	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100	esent X value Beke Dark Sur h Chromany Mucky yny Gleyedeted Matrox Dark S eted Dark S	Color (Moist) Color (Moist)	Red Meta CS=Coverage Red ox Features Red ox Fe	rs for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyva' S9 - Thin Da F12 - Iron-M F21 - Red P TA6 - Mesic TF12 - Very Other (Exple	matic Soils 1 Muck (LRAK L MURA Prairie Redox (LRAK L MURA Prairie Redox (LRAK L MURA MARIE REAG MARIE REAG MARIE	Texture (e.g. clay, sand, silt loam silty clay loa
	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	Bottom Depth 15 18 Soil Field In A1-Histosol A2-Histo Ep A3-Black His A4-Hydroger A5-Stratified A11-Deplete A12-Thick D S1-Sandy M S4-Sandy G S5-Sandy R S6-Stripped S7-Dark Sur	Aquollic Hapludal Horizon 1 2 dicators (check h ipedon stic n Sulfide Layers d Below Dark Surface auk Surface auk Mineral leyed Matrix edox Matrix	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 	% 100 100	esent X value Beke Dark Sur h Chromany Mucky yny Gleyedeted Matrox Dark S eted Dark S	Color (Moist) Color (Moist)	led Matix CS=Courant Cedox Features %	rs for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S1 S9 - Thin Da F12 - Iron-M F19 - Piedm F21 - Red P TA6 - Mesic TF12 - Very Other (Expt:	matic Soils 1 Muck (LRRK L MURA Praine Redox (LRR L MURA Praine Redox (LRR L MURA Praine Redox (LRR L MURA LA SUTface (LRR K L M) US Below Surface ark Surface (LRR K L M) US Below Surface ark Surface (LRR K L M) US Below Surface ark Surface (LRR K L M) US Below Surface ark Surface (LRR K L M) US Below Surface are Material Spodic quita 1444 Shallow Dark Sur in in Remarks) Son and wetland hydr	Texture (e.g. clay, sand, silt loam silty clay loa
(If Observed) Remarks:	Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 15 NRCS Hydric	Bottom Depth 15 18	Aquollic Hapludal Horizon 1 2 dicators (check h pedon stic n Sulfide Layers delsow Dark Surface ark Surface uck Mineral eyed Matrix face (LRRR, MURA 1499)	Color 10YR 10YR 	Matrix (Moist) 3/2 4/3 icators a	% 100 100 100 re not pri 88 - Poly 99 - Thin S11 - Hig F1 - Loan F2 - Loan F3 - Depl F6 - Redc	esent X value Beke Dark Sur h Chromany Mucky yny Gleyedeted Matrox Dark S eted Dark S	Color (Moist) Color (Moist)	led Matix CS=Courant Cedox Features % Indicators of hypothesis	rs for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S; S8 - Polyva S9 - Trin Da F12 - Iron M F12 - Red P TA6 - Mesic TF12 - Very Other (Expt.)	Muck (LRR L MRA Prairie Redox (LRR L MRA Prairie Redox (LRR L MRA Prairie Redox (LRR L MRA Prairie Redox (LRR L MRA Prairie Redox (LRR L MRA Dar L MRA	Texture (e.g. clay, sand, silt loam silty clay loa



Projecusite:	Ridge Road				vveuand ib. vv-3 Sample Point. P
VEGETATIO	N (0)	***	6660V		
VEGETATIO	 N (Species identified in all uppercase are non-na (Plot size: 10 meter radius) 	ative speci	es.)		
Tree Statum (Species Name	% Cover	Dominact	Ind Status	Dominance Test Worksheet
1.	Prunus serotina	20	Y	FACU	AMAGE MARK SCHOOL TANKS OF THE
2.	Quercus macrocarpa	20	Υ	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.	**	***	1941	199	
4.	You		OFF.	-	Total Number of Dominant Species Across All Strata: 4 (B)
5.	ine.	**	-		
6.	100		()==3	544	Percent of Dominant Species That Are OBL, FACW, or FAC: 25% (A/B)
7.					, , , , , , , , , , , , , , , , , , ,
8.	5==	_			Prevalence Index Worksheet
9.	\$ **	***			Total % Cover of: Multiply by:
10.		-			OBL spp. 0 x 1= 0
	Total Cover =				FACW spp. 0 x 2 = 0
				8	FAC spp. 30 x 3 = 90
SaoFno/Shrub :	Stratum (Plot size: 5 meter radius)				FACU spp. 80 x 4 = 320
1.	LONICERA X BELLA	40	Y	FACU	UPL spp. 0 x 5 = 0
2.	RHAMNUS CATHARTICA	30	Y	FAC	
3.	22	-		77	Total 110 (A) 410 (B)
4.	***				10ta 110 (r) 410 (c)
5.	**	WHE 20			Prevalence Index = B/A = 3.727
6.	500		(**)		Trotactico index = Bix = 3.727
7.	(**)				8 .
8.		***	**	10 00 2	Hydrophytic Vegetation Indicators:
9.		-	(100)	-	Yes X No Rapid Test for Hydrophytic Vegetation
10.		-	**		Yes X No Dominance Test is > 50%
10.	Total Cover =		0.000		Yes X No Prevalence Index is ≤ 3.0 *
	Total Cover -	70			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
				2	
	Plot size: 2 meter radius)				Yes X No Problem Hydrophytic Vegetation (Explain) *
1.		1960		1881	* Indicators of hydric soil and wetland hydrology mu
3.		**	(30)	10000	present, unless disturbed or problematic.
4.	☆	**	**	(55)	Definitions of Venetation Strates
	- S		S++		Definitions of Vegetation Strata:
5.	30				Tree - Woody plants 3 in. (7.6cm) or more in diameter
6	**	**		-	at breast height (DBH), regardless of height.
7.	180	-		**	
8.	**	**)(##)		a union a Wanda planta loss than 2 in DRH and acceptor
9.		**)(##)		Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.
10.	**		(186)		
11.	545	***	(996)	144	II. I All backgroups (non-unacks) alondo conscillant
12.	1998				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall.
13.			9 	1944	of 526, and woody plants less than 5.20 ic tal.
14.) and	**	(1 44)		
15.	144	***	3066600	100	Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	0			^ s
90 9 9-0					
	ratum (Plot size: 10 meter radius)				
1.	(4))(HH)(1990	
2.	(49)	***		-	
3.		***	(***)		Hydrophytic Vegetation Present Yes X No
4.	5691		**	1844	
5.	****	***	(44)	1	
	Total Cover =	0			The set of the control of the contro
Remarks:					p p
	GF				
				(6)	
Additional R	Remarks:				
				ă	
				20	



Project/Site:	Ridge Road						Stantec Project #:	1937055	54	Date:	09/20/17
Applicant:		Sara Lessner								County:	Dane
Investigator #1				Invest	igator #2			*******		State:	Wisconsin
Soil Unit:	Hayfield sil	t loam		200 10	10/12/00/00		VI/WWI Classification:	N/A		Wetland ID:	W-1
Landform:	Rise	Hart and the state of the state	SOURCE			: Convex		1920	(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(0)(Sample Point:	P-7
Slope (%):	3-4	Latitude			ongitude				m: N/A	Community ID:	Upland Woodland
		ditions on the site				(If no, exp!			X No	Section:	23
		or Hydrology si				11.	Are normal circumsta	No No	ent?	Township:	7N
		or Hydrology n	aturally pr	roblemat	IC?	V (*) (*)	JX Yes	INO		Range:	11E
SUMMARY OF		10			(N. A.			HARMAN AND A		EHR NOULL	CHARLES IN COLUMN
Hydrophytic Ve				Yes					Is Present?	DAY OF THE PARTY O	Yes X I
Wetland Hydro Remarks:			23 (5.75)	Yes			ere wetter than normal			Within A Wetla	
							field investigation.	i irom dune	1 - August c	or. However, un	er man normal
HYDROLOGY Wetland Hyd	rology India	ators (Check here	if indicat	010 010 1	not propo	nt V					
Primary		iors (Check here	i i indicat	uis ale i	iot prese	nux).			Secondary	c	
	A1 - Surface	Water			B9 - Wat	er-Stained	Leaves		[B6 - Surface Soil	
Į.	A2 - High Wa					uatic Faun			Ę	B10 - Drainage P	
-	A3 - Saturation			_		rl Deposits rogen Sulfi			ŀ	B16 - Moss Trim C2 - Dry-Season	
i i	B2 - Sedimen			-			spheres on Living Roots		'n	C8 - Crayfish Bur	
	B3 - Drift Dep				C4 - Pres	sence of R	educed Iron			C9 - Saturation V	fisible on Aerial Imagery
	B4 - Algal Ma						eduction in Tilled Soils		1	_D1 - Stunted or S	
-	B5 - Iron Dep	osits on Visible on Aerial In	nanerv	10		Muck Sur colain in Re			F	D2 - Geomorphic D3 - Shallow Aqu	
i		Vegetated Concave		- 100	Outer (E	cp.carinric	andraj		İ	D4 - Microtopogr	
77	1								Г	D5 - FAC-Neutra	l Test
Field Observa	tions:						emplement constructed in		30 - S 194-	P. H. H. House's S	The second
Surface Water	Present?	Yes X No	Depth:		(in.)						V 107 W
Water Table P	resent?	Yes X No	Depth:		(in.)			Wetland F	lydrology F	resent?	Yes X No
Saturation Pres	sent?	Yes X No	Depth:		(in.)						
Describe Peror	dad Data Jetre	an anuan monito	ring well a	agrial aho	toe prev	ioue inene	ections), if available:	N/A			3 3 - 4 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1
Remarks:	oca Data (out	com gaage, monte	inig iron, t	acital pite	noo, prov	iodo iliopi	obolio), il dianobio.				
Kemarks.											
SOII S						2-12-		The state of the s			- (= 10) HM
SOILS		Haufield eilt leam	D. 20 Tall				orias Drainaga Clasic	comeuhat	poorly		
Map Unit Name		Hayfield silt loam	lfe.		17	S	eries Drainage Class:	somewhat	poorly		
Map Unit Name Taxonomy (Sub	group):	Aquollic Hapluda		fron the advance	ead infrator					r Location: Pl ⇔Pona Linina	Market in
Map Unit Name Taxonomy (Sub Profile Descrip	group): otion (Describe to t	Aquollic Hapluda					centration, D=Depletion, RV=Reduced	Matik CS=Covere	s Coated Sand Grains	r, Location: PL=Pore Lining.	M=V±th) Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top	ogroup): otion (Described) Bottom	Aquollic Hapluda	e indicator or co	Matrix			centration, D=Depletion, RV=Reduced Re	Maria CS-Coore dox Feature	o Coated Sand Grains		Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	egroup): otion (Describe to Bottom Depth	Aquollic Hapludal	Color	Matrix (Moist)	%) (Type: C=Cor	centration, D=Depletion, RM=Reduced Re- Color (Moist)	v±1, cs-co-e dox Feature %	scored Sand Grains es Type	Location	Texture (e.g. clay, sand, lo
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	Bottom Depth	Aquollic Hapludal redepth reested to doour extre Horizon	Color 10YR	Matrix (Moist) 3/2	% 100) (Type: C=Cor	Recordation, D=Depletion, RN=Reduced Recolor (Moist)	w±u, cs=co-es dox Feature % 	s Coated Sand Grains eS Type	Location	Texture (e.g. clay, sand, lo silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14	Bottom Depth	Aquollic Hapludal redept reesed to docurrent to Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 4/3	% 100 99) (Typic C=Cor	Color (Moist) 4/6	dox Feature %	Conted Sand Grans	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Bottom Depth 14 17 24	Aquollic Hapludal redeph resided to door extr Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2	% 100 99 95	 10YR 10YR	Color (Moist) 4/6 4/6	dox Feature % 1 5	C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Bottom Depth 14 17 24	Aquollic Hapludal redept resided to door extr Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2	% 100 99 95 	10YR 10YR	Color (Moist) 4/6 4/6	dox Feature % 1 5	SCORES Sand Grains es Type C C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17 	egroup): Dition (Described) Bottom Depth 14 17 24	Aquollic Hapludal edeph readed to door with Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 	10YR 10YR	Color (Moist) 4/6 4/6	Maria CS=Coore dox Feature % 1 5	SCoated Sand Grains BS Type C C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Bottom Depth 14 17 24	Aquollic Hapludal re depth resided to document to Horizon 1 2 3	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 	10YR 10YR 10YR	Re Color (Moist) 4/6 4/6	Matic CS-Course dox Feature % 1 5	SCOREST Sand Grans BS Type C C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	egroup): tion (Described in Depth 14 17 24	Aquollic Hapludal ed depth reeded to door with Horizon 1 2 3	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 	10YR 10YR 10YR 	ReColor (Moist) 4/6 4/6	dox Feature % 1 5	SCORES Sand Grans BS Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	egroup): stion (Described in Depth 14 17 24	Aquollic Hapludal be depth reeded to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 	10YR 10YR 10YR	Color (Moist) 4/6 4/6	Maria CS-Coore dox Feature % 1 5 5	SCORES Sand Grains BS Type C C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	egroup): stion (cesses to the first state of the f	Aquollic Hapludal ed depth reeded to door with Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr	10YR 10YR 10YR 	Color (Moist) 4/6 4/6):	Maria CS-Coore dox Feature % 1 5 5	S Type C C C	Location M M emattic Solls †	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	ogroup): tion (Described in Depth 14 17 24 Soil Field In A1- Histosol	Aquollic Hapludal edeph readed to document to Horizon 1 2 3 dicators (check)	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly	10YR 10YR esent X	Color (Moist) 4/6 4/6): w Surface (LAR R, MURA 1459)	Maria CS-Coore dox Feature % 1 5 5	SCORES Sand Grains SS Type C C C	Location M M ematic Soils Muck (LERK L WURA	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	egroup): stion (cesses to the first state of the f	Aquollic Hapludal edephreeded to cour et the Horizon 1 2 3 dicators (check in	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin	10YR 10YR esent X	Re Color (Moist) 4/6 4/6): w Surface (LRR R, MURA 1498)	Maria CS-Coore dox Feature % 1 5 5	Type C C C	Location M M emattic Solls †	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	pgroup): tion (Described in Depth Depth 14 17 24	Aquollic Hapludal edept readed to document to Horizon 1 2 3 dicators (check to ipedon stic n Sulfide	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr S8 - Poly S9 - Thin S11 - Hig F1 - Loar	10YR 10YR 10YR seent X value Belo Dark Surfih Chroma	Color (Moist) 4/6 4/6 4/6): w Surface (LAR R, MURA 1499) 3009 (LRR R, MURA 1499) Sands Mineral (LRR K, L)	Maria CS-Coore dox Feature % 1 5 5	Coated Sand Grains S Type C C C ors for Probl A10 - 2 cm A16 - Coas S3 - 5 cm h S7 - Dark S	Location M M M ematic Solls Muck (LRR K. L. MURA tt Prairie Redox (LRR ducky Peat of Peat	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Bottom Depth 14 17 24 Soil Field In A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	Aquollic Hapludal edephreeded to document to Horizon 1 2 3 dicators (check to populate to the common to	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Re Color (Moist) 4/6 4/6): w Surface (LAR R, MLPA 1498) 3CB (LAR R VLPA 1498) Mineral (LAR K, L) Matrix	Maria CS-Coore dox Feature % 1 5 5	C C C	Location M M M ematic Solls Muck (use k, L, wusa tt Prairie Redox (use fucky Peat of Peat Surface(use k, L, w) subue Below Surface	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Bottom Depth 14 17 24	Aquollic Hapludal re depti reside to document to Horizon 1 2 3 dicators (check to specific to Sulfide ILayers Id Below Dark Surface to Below Dark Surface	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr S8 - Poly S9 - Thin S11 - Hig F1 - Loar F3 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 4/6 4/6): w Surface (LAR R, MLPA 1499) Sands Wineral (LAR K, L) Matrix K	Maria CS-Coore dox Feature % 1 5 5	C C C C C C C C C C C C C C C C C C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Soil Field In A1-Histosol A2-Histic EA A3-Black Hi A4-Hydroge A5-Stratified A12-Thick D	Aquollic Hapludal re dept readed to document to Horizon 1 2 3 dicators (check to populate to the property of the pro	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Red	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6 4/6 4/6): w Surface (LRR R, MURA 1499) 3C9 (LRR R MURA 1499) Sands Mineral (LRR K, L) Matrix X x x face	Maria CS-Coore dox Feature % 1 5 5	Coursed Sand Grains SS Type C C C cors for Probl A10 - 2 cm A16 - Coas S3 - 5 cm M S7 - Dark S S8 - Polyv S9 - Thin D F12 - Iron-	Location M M M ematic Soils Muck (LRR K, L MURA th Prairie Redox (LRR ducky Peat of Peat Surface (LRR K, L M) alue Below Surface Araface (LRR K, L) Manganese Masse	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Bottom Depth 14 17 24	Aquollic Hapludal edephreeded to document to Horizon 1 2 3 dicators (check to proper to surface the surface	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redi F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	ReColor (Moist) 4/6 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	Maria CS-Coore dox Feature % 1 5 5	C C C C C C C C C C C C C C C C C C C	Location M M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Soil Field In A1- Histosol A2- Histic Eq A3- Black Hi A4- Hydroge A5- Stratified A12- Thick D S1- Sandy M S4- Sandy G S5- Sandy R	Aquollic Hapludal Horizon 1 2 3 dicators (check in some stick in Sulfide ILayers and Below Dark Surface uck Mineral leyed Matrix edox	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redi F7 - Depl	10YR 10YR 10YR 10YR	ReColor (Moist) 4/6 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	Maria CS-Coore dox Feature % 1 5 5	Couled Sand Grains SS Type C C C ors for Probl A10 - 2 cm A16 - Coas S3 - Scm M S7 - Dark S S8 - Polyve S9 - Thin D F12 - Iron- F19 - Piedr F21 - Red TA6 - Mesi	Location M M M ematic Solls Muck (LRR K, L WURA the Traine Redox (LRR Mucky Peat of Peat Surface (LRR K, L W) Albus Below Surface Albus Surface (LRR K, L) Manganese Masse mont Floodplain So Parent Material c Spodio (LULA 1444)	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Soil Field In A1- Histosol A2- Histic Eg A3- Black Hi A4- Hydroge A5- Stratified A11- Deplete S1- Sandy M S4- Sandy G S6- Stripped	Aquollic Hapludal Horizon 1 2 3 dicators (check I ipedon store in Sulfide ILayers de Below Dark Surface auck Mineral leyed Matrix edox Matrix	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redi F7 - Depl	10YR 10YR 10YR 10YR	ReColor (Moist) 4/6 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	Maria CS-Coore dox Feature % 1 5 5	Correst Sand Grains S Type C C C Ors for Probl A10 - 2 cm A16 - Coas S3 - 5 cm h S7 - Dark S S8 - Polyva S9 - Thin C F12 - Iron- F19 - Piedr F21 - Red I TA6 - Mesis TF12 - Ver	Location M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17	Soil Field In A1- Histosol A2- Histic Eg A3- Black Hi A4- Hydroge A5- Stratified A11- Deplete S1- Sandy M S4- Sandy G S6- Stripped	Aquollic Hapludal Horizon 1 2 3 dicators (check in some stick in Sulfide ILayers and Below Dark Surface uck Mineral leyed Matrix edox	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redi F7 - Depl	10YR 10YR 10YR 10YR	ReColor (Moist) 4/6 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	dox Feature % 1 5 Indicat	Ors for Probl A10 - 2 cm A16 - Coas S3 - Scm M S7 - Dark S S8 - Polyva S9 - Thin C F12 - Iron- F19 - Piedr TA6 - Mesi TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver	Location M M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17 NRCS Hydric	Bottom Depth 14 17 24 Soil Field In A1- Histosol A2- Histo Ep A3- Black His A4- Hydroge A5- Stratified A1- Deplete A12- Thick D S5- Sandy R S6- Stripped S7- Dark Sur	Aquollic Hapludal Horizon 1 2 3 dicators (check I ipedon store in Sulfide ILayers de Below Dark Surface auck Mineral leyed Matrix edox Matrix	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Redi F7 - Depl	10YR 10YR 10YR 10YR	Re Color (Moist) 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	dox Feature % 1 5 Indicators of h	Ors for Probl A10 - 2 cm A16 - Coas S3 - Scm M S7 - Dark S S8 - Polyva S9 - Thin C F12 - Iron- F19 - Piedr TA6 - Mesi TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver TF12 - Ver	Location M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17 NRCS Hydric	Soil Field In A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A11- Deplete A12- Thick D S1- Sandy M S4- Sandy G S6- Stripped S7- Dark Sur	Aquollic Hapludal Horizon 1 2 3 dicators (check I ipedon store in Sulfide ILayers de Below Dark Surface auck Mineral leyed Matrix edox Matrix	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2 	% 100 99 95 re not pr S8 - Poly S9 - Thin S11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Rede	10YR 10YR 10YR 10YR	Re Color (Moist) 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	dox Feature % 1 5 Indicators of h	ors for Probl A10 - 2 cm A16 - Coas S3 - Scm h S7 - Dark S S8 - Polyv S9 - Thin C F12 - Iron- F19 - Piedr F21 - Red I TA6 - Mesi TF12 - Ver Oydophyfic veget	Location M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17 NRCS Hydric	Soil Field In A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A11- Deplete A12- Thick D S1- Sandy M S4- Sandy G S6- Stripped S7- Dark Sur	Aquollic Hapludal Horizon 1 2 3	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2	% 100 99 95 re not pr S8 - Poly S9 - Thin S11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Rede	10YR 10YR 10YR 10YR	Re Color (Moist) 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	dox Feature % 1 5 Indicators of h	or for Problem Atto - 2 cm Att	Location M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 14 17 NRCS Hydric	Soil Field In A1- Histosol A2- Histic Ep A3- Black His A4- Hydroge A5- Stratified A11- Deplete A12- Thick D S1- Sandy M S4- Sandy G S6- Stripped S7- Dark Sur	Aquollic Hapludal Horizon 1 2 3	Color 10YR 10YR 10YR 10YR	Matrix (Moist) 3/2 4/3 4/2	% 100 99 95 re not pr S8 - Poly S9 - Thin S11 - Hig F1 - Loar F2 - Loar F3 - Depl F6 - Rede	10YR 10YR 10YR 10YR	Re Color (Moist) 4/6 4/6): w Surface (LRR R, MLRA 1499) ace (LRR R, WLRA 1499) Matrix K Ifface Surface Surface Surface	dox Feature % 1 5 Indicators of h	or for Problem Atto - 2 cm Att	Location M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam silty clay loam



Continue	Project/Site:	Ridge Road			Wetland ID: W-1 Sa	ample Point:
Total Cover = 0		3				
Total Cover = 0	VEGETATION	(Species identified in all uppercase are non-na	ative species.)	ALC: NO		1
1. Prunus serolina 20 Y FACU 2. Querus macrocarpa 20 Y FACU 3			Ni pesa tanan inti		2 *	
2.	V.	Species Name	% Cover Domina	int Ind Sta	Dominance Test Worksheet	
3.	1.	Prunus serotina	20 Y	FAC	U }	
3.	2.	Quercus macrocarpa	20 Y	FAC	Number of Dominant Species that are OBL, FACW, or FAC:	2 (A)
4.					TO TO THE PROPERTY OF THE PROP	
S.			1001 100	1	Total Number of Dominant Species Across All Strata:	6 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (And Part of Decision of Dec		CONTRACTOR OF THE PARTY OF THE			_	
Total Cover					Percent of Dominant Species That Are OBL EACW or EAC:	33% (A/B)
B.	200000	270			Totali di Bolili ali opera i Harve obe, i vovi, di 170.	(741)
10		_90			Dravelance Index Markshoot	
10	0,000	505			The state of the s	
Total Cover = 40	23,650	10.7				
FAC spp 28 x 3 = 84	10.	20	2000 200	**		
Septings/smith Stratum (Plot size: 6 melter radius)		Total Cover =	40		11 1 (1994) A MARCO (1994) 4 (1994) 5 (
1. LONICERA X BELLA 40					1871 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A 1940 A	
2. RHAMNUS CATHARTICA 3	Sapling/Shrub St					
Total 118	1.	LONICERA X BELLA	40 Y	FAC	UPL spp. 10 x 5 = 50	
A	2.	RHAMNUS CATHARTICA	20 Y	FAC		
A	3.		(12)	192	Total 118 (A) 454 (B)	2
Prevalence Index = B/A = 3.847			(<u>422</u>)/ 520	84		
Hydrophytic Vegetation Indicators: Hydrophytic Vegetation Indicators: Hydrophytic Vegetation Replication	55000	0. 265			Prevalence Index = B/A = 3.847	
Total Cover = 10	200000	588			1 TOTAL TIMEX - BIA - 5.047	
Hydrophytic Vegetation Indicators: Secondary Sec	200.000	501				
9		286				
Total Cover	09350	288				84
Total Cover = 60		£4				ition
Problem Probable Problem Probable Problem Pr	10.	M-			Yes X No Dominance Test is > 50%	
		Total Cover =	60		Yes X No Prevalence Index is ≤ 3.0 *	
	*				Yes X No Morphological Adaptations (Explain	n) *
1. LEONURUS CARDIACA 10 Y UPL 2. Geum canadense 5 Y FAC 3. RHAMNUS CATHARTICA 3 N FAC 4	Herb Stratum (P	ot size: 2 meter radius)				
2.			10 Y	UPI		
3.	11079.1	and the second department and second of the second department of the second	V20000	0113227	* Indicators of hydric soil and wetla	
A	50,000				— Diesent unless distribed of brook	ematic.
5	V.3V	A MAIL TO HANDLA A THAT HAND A CHAIN SHOWN I PRODUCTION AS	1004 1010	1761182349	The state of the s	
Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 8			1900	10001	Definitions of vegetation strata.	-
Total Cover = 18 Total Cover = 0 Total Cov	0.920	590			- W. J. L. O. (70.)	. V W Mar.
8	10.74			-		
9		27			at bleast rieght (DBh), regardless	or neight.
10	8.			-	Sections and the two Supplemental Linear Spatial Sections and Section (Section Section	
10.	9.	25				and greater
12	10.	<u></u> 8:			than 3.28 ft. tall.	
12	11.	**	(4)			
13					Herb - All herbaceous (non-woody) plants	, regardless
14 Woody Vines - All woody vines greater than 3.28 ft. in height. Total Cover = 18		->IH'		35		
15.	100000		- F200 2500	800		
Total Cover = 18 Voody Vine Stratum (Plot size: 10 meter radius)		811			Woody Vince All woody vines greater than 3.28 f	t in height
Voody Vine Stratum (Plot size: 10 meter radius) 1	10.		2002		Vibous Villes - All woody Villes greater than 3.20 i	L at neight
Voody Vine Stratum (Plot size: 10 meter radius)		Total Cover =	18			50000000
1						
2	Woody Vine Stra	turn (Plot size: 10 meter radius)				
3 Hydrophytic Vegetation Present	1.	53. 51			water a contract to the contract of the contra	
4	2.	38		-		14 4 60 6
4	3.	86		18 54	Hydrophytic Vegetation Present Ye	s X No
5				- 12		
Total Cover = 0 Remarks:						
Remarks:	٥.		19000			
	Domorka	Total Cover =	U	0.5	The contract of the second section is the second se	THE RESERVE
Additional Remarks:	Remarks.					
Additional Remarks:						
Additional Remarks:						
Additional Remarks:						13
	Additional Re	emarks:				
	adiadiai Ne	energe and the second s			8	
						£



	Ridge Road						Stantec Project #:	193705554		Date:	09/20/17
Applicant:	Justin and S	ara Lessner								County:	Dane
Investigator #1				Investi	igator #2:					State:	Wisconsin
Soil Unit:	Houghton m	uck		12	0200		VI/WWI Classification	: E1K		Wetland ID:	W-1
Landform:	Depression	2 1001 0	2000	11.00	al Relief:	Umpaga, and and	e	100		Sample Point:	P-8
Slope (%):	0-2	Latitude			ongitude:			Datum:		Community ID:	
		tions on the site t				(If no, exp!			No	Section:	23
		r Hydrology si					Are normal circumst	Charles and the second	4	Township:	7N
Are Vegetation	, Soil, o	r Hydrology na	aturally pr	roblemat	ic?		X Yes	∏No	40	Range:	11E
SUMMARY OF	FINDINGS	Wildes				SEID AT		51/5	11, 100 2		A PROTEST
Hydrophytic Ve				X Yes				Hydric Soils I			X Yes
Wetland Hydro				X Yes			-12-517 3-797 5				nd? X Yes I
Remarks:							ere wetter than norma	al from June 1 -	- August 3	 However, dr 	ier than normal
	conditions w	ere experienced	from Sep	tember 1	1 - 19 pric	or to the f	ield investigation.				
										9	
HYDROLOGY											The State of the S
Wetland Hydi	ology Indicat	tors (Check here	if indicat	ors are r	not presen	nt[):					-8
Primary				200		20 8 6			Secondary:	2000 B USB 50 W	
	A1 - Surface V					er-Stained				B6 - Surface Soil	
	A2 - High Wate A3 - Saturation			<u> </u>		uatic Faun d Deposits			_	B10 - Drainage F B16 - Moss Trim	
l 1-	B1 - Water Ma			-		ogen Sulfi				C2 - Dry-Season	
l i	B2 - Sediment			Ė			spheres on Living Roots			C8 - Crayfish Bu	
	B3 - Drift Depo						educed Iron		L		fisible on Aerial Imagen
	B4 - Algal Mat B5 - Iron Depo					ent Iron Re Muck Sur	eduction in Titled Soils		ļ.	D1 - Stunted or S D2 - Geomorphic	
l i		Nisible on Aerial Im	agery	F		plain in Re			i^	D3 - Shallow Aqu	
l i		Vegetated Concave		*			**************************************			D4 - Microtopogr	aphic Relief
		74							lx	D5 - FAC-Neutra	l Test
Field Observa	tions:								arign si	an infrared represent	Participation of the
Surface Water	Present?	Yes X No	Depth:		(in.)					, (o [v	. V (N.
Water Table P	resent?	Yes X No	Depth:		(in.)		- 44 February 2	Wetland Hyd	rology Pi	resentr ix	Yes No
Saturation Pres	sent?	Yes X No	Depth:		(in.)						
Describe Recor	ded Data Jetros	1623			atoe provi	ious Insné	ections), if available:	N/A	Dilligation of		951817.390 (p.t.)
The state of the s	ded Data (Siles	am gauge, monitor	ing wen,	aciiai piic	nos, previ	ous mape	cuons), ii avanabio.	13073			
Remarks:											
The state of the s		.4									
		,									
6011.0							×		- 10°		127 227
SOILS		Levelles aviet					orice Drainage Class	· von noorky			
Map Unit Name	: H	loughton muck	10			S	eries Drainage Class	: very poorly	n.		
Map Unit Name Taxonomy (Sub	group):	Typic Haplosapris								tunter B. Smilkin	H-Mark
Map Unit Name Taxonomy (Sub Profile Descrip	group):	Typic Haplosapris					ncentration, D=Depletion, RM=Reduce	d Matrix, CS=Covered Co	ded Sand Grand,	Location: PL=Pore Lining.	W-VED) Teylure
Map Unit Name Taxonomy (Sub Profile Descrip Top	group): otion (Describe to Fa	Typic Haplosapris	e indicator or co	Matrix			ncentration, D=Depletion, RM=Reduce Re	d Matte, CS=Coverna Coverna Co			Texture
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	Bottom Depth	Typic Haplosapris	Color	Matrix (Moist)	%) (Type: C=Cor	centration D-Depleton RM-Reduce Re Color (Moist)	edox Features	Туре	Location	Texture (e.g. clay, sand, lo
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth	group): Bottom Depth 6	Typic Haplosapris coph readed to document to Horizon 1	Color 10YR	Matrix (Moist) 3/2	% 100) (Type: C=Cor	Color (Moist)	edox Features	Туре	Location	Texture (e.g. clay, sand, lo silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0	Bottom Depth 6	Typic Haplosapris depth readed to document to Horizon 1 2	Color 10YR 10YR	Matrix (Moist) 3/2 3/2	% 100 95) (Type: C=Cor	Color (Moist) 4/6	edox Features % 5	Type C	Location M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Bottom Depth 6 8 24	Typic Haplosapris depth reeded to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1	% 100 95 90	10YR 10YR	Color (Moist) 4/6 5/6	edox Features % 5 10	Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Bottom Depth 6 8 24	Fypic Haplosapris depth reeded to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1	% 100 95 90 	10YR 10YR	Color (Moist) 4/6 5/6	edox Features % 5	Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Bottom Depth 6 8 24	Typic Haplosapris depth reeded to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1	% 100 95 90 	10YR 10YR	Color (Moist) 4/6 5/6	edox Features % 5 10	Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Bottom Depth 6 8 24	Fypic Haplosapris depth reeded to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90 	10YR 10YR	Color (Moist) 4/6 5/6	5 10	Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Bottom Depth 6 8 8 24	Typic Haplosapris Horizon 1 2 3	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90 	10YR 10YR 10YR	Color (Moist) 4/6 5/6	os Matrix CS-Coveres Coveres C	Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Porton (Descreto Pre Bottom Depth 6 8 24	Typic Haplosapris Gepth needed to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90 	10YR 10YR	Color (Moist) 4/6 5/6	5 10	Type C C	Location M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	group): tition (peeche to the Bottom Depth 6 8 24	Typic Haplosapris Horizon 1 2 3	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90	10YR 10YR 10YR 	Color (Moist) 4/6 5/6);	Matrix OS-Coveración edox Features % 5 10 Indicators	Type C C C s for Proble	Location M M matic Soils 1	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	Bottom Depth 6 8 8 24 Soil Field Inc.	Fypic Haplosapris Gepti resided to document to Horizon 1 2 3 Glicators (check in	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90 sre not pro- S8 - Poly	10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (JRR R, MJRA 1499)	so Matrix, CS=Construction edox Features % 5 10 Indicators	Type C C s for Proble A10 - 2 cm	Location M M matic Soils Muck grax L MIRA	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	group): tion (casces to the Bottom Depth 6 8 8 24	Horizon 1 2 3 licators (check hopedon	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90 ss - Poly S9 - Thin	10YR 10YR 10YR 	Color (Moist) 4/6 5/6): w Surface (Jarr, Mara 1436)	so Matrix CS-Construction edox Features % 5 10 Indicators	Type C s for Proble A10 - 2 cm A16 - Coast	Location M M matic Soils Muck (LRRK, L. MLRA Prairie Redox (LR	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	group): tion (Gesche to be Bottom Depth 6 8 24 Soil Field Inc A1-Histosol A2-Histic Epi A3-Black Hist	Typic Haplosapris cospti needed to document to Horizon 1 2 3 dicators (check in	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90 sre not provide 88 - Pody S9 - Thin S11 - Hig	10YR 10YR 10YR 10YR 	Color (Moist) 4/6 5/6): w Surface (LRR, MLRA 1459) Sands	Matrix OS-Covariation edox Features % 5 10 Indicators	Type	Location M M matic Soils Muck grax L MIRA Prairie Redox gra ucky Peat of Peat	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8	group): tion (cestric to the bottom Depth 6 8 24	Fypic Haplosapris Horizon 1 2 3 licators (check in	Color 10YR 10YR 10YR 	Matrix (Moist) 3/2 3/2 4/1 	% 100 95 90	10YR 10YR 10YR 	Color (Moist) 4/6 5/6); w Surface (IRRR, MIRA 14/6) 3ce (IRRR, MIRA 14/6) Sands Mineral (IRRR, MI	so Matrix, CS-Construction and	Type	Location M M matic Soils Muck (LRRK, L. MLRA Prairie Redox (LR	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	Bottom Depth 6 8 24 Soil Field Inc At - Histosol A2 - Histo Epi A3 - Black Hist A4 - Hydrogen A5 - Stratifed A11 - Depthete The A11 - Depthete A11 - Depthete A11 - Depthete A11 - Depthete A11 - Depthete A11 - Depthete	Typic Haplosapris cospti resided to document to Horizon 1 2 3	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90	10YR 10YR 10YR 10YR 20 20 20 20 20 20 20 20 20 20 20 20 20	Color (Moist) 4/6 5/6): W Surface (IRRR MIRA 1499) Sands Mineral (IRR K U) Matrix X	Matrix OS-Coranacco edox Features % 5 10 Indicators	Type	Location M M matic Soils Muck quark L MLRA Prairie Redox quark L MLRA Prairie Redox quark L MLRA Prairie Redox quark L MLRA Prairie Redox quark L MLRA Prairie quark L MLRA Prairie quark L MLRA Prairie quark	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	Bottom Depth 6 8 8 24 Soil Field Inc. A1- Histosol A2 - Histo Epi A3- Black Hist A4 - Hydrogen A5 - Stratified CA12 - Thick Deplete A12 - Thick Deplete A14 - Thic	Fypic Haplosapris Horizon 1 2 3 licators (check hopedon iic Sulfide Layers Is Below Dark Surface	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90 ure not pro \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loan F2 - Loan F6 - Red F6 - Red	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): W Surface (LRR R, MURA 1436) Sands Mineral (LRR R, L) Matrix X X X X	Matrix CS-Corresico edox Features % 5 10 Indicators	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyval S8 - Polyval F12 - Iron-h	Location M M M matic Soils Muck (DRR K L MLRA Prairie Redox (DR Muck (DRR K L MLRA LOCKY Peat of Peat urface (DRR K L M) Use Below Surface Ark Surface (DRR K Langanese Masse	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	group): tion (pesche to the Bottom Depth 6 8 24	Fypic Haplosapris Horizon 1 2 3 licators (check hoedon ic Suffide Layers IBelow Dark Surface ck Mineral	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90 sre not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	so Matrix, CS-Construction and the construction of the constructio	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyval S9 - Thin D F19 - Piedm	Location M M M matic Soils Muck (LRR K, L. MLRA Prairie Redox (LR LUCKY Peat of Peat ucky Peat of Peat urface (LRR K, L. M) ue Below Surface ark Surface LRR K langanese Masse ont Floodplain So	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	group): tion (casorba to be Bottom Depth 6 8 24 Soil Field Inc A1-Histosol A2-Histic Epi A3-Black Hist A4-Hydrogen A5-Stratified A11-Deptetec A12-Thick Deptetec A12-Thick Deptetec A14-Sandy Gle	Typic Haplosapris copti needed to document to Horizon 1 2 3 Ilicators (check in bedon ic Suffide Layers Il Below Dark Surface rk Surface ck Mineral typed Matrix	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90 sre not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	Matrix OS-Covariation edox Features %	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5 cm M S7 - Dark S S8 - Polyva' S9 - Thin Dar F12 - Iron-h F12 - Iron-h F12 - Red F	Location M M M	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	group): tion (pesche to the Bottom Depth 6 8 24	Fypic Haplosapris Horizon 1 2 3 licators (check hopedon iic Sulfide Layers Ir Surface ck Mineral kyed Martix dox	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90 sre not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	Matrix, OS-Coversacionedox Features %	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin D F12 - Iron-h F19 - Piedm F21 - Red P TATE - Red P TATE - Red P TATE - Red P TATE - Red P TATE - Red P TATE - Red P	Location M M M M matic Soils Muck (LRRK L MLRA Prairie Redox (LR LUCKY Peat of Peat ucky Peat of Peat urface (LRRK L M) ue Below Surface ark Surface dLRK Alanganese Masse ont Floodplain So arent Material Spodic (MLRA 144A, Shellow Dark Su	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam 1449) RK L R) (LRR K L R) S (LRR K L R) S (LRR K L R) IS (URA 1449) 145, 1459)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	group): tion (Describe the Performance of Performa	Fypic Haplosapris Horizon 1 2 3 licators (check hopedon iic Sulfide Layers Ir Surface ck Mineral kyed Martix dox	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90 sre not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	Matrix CS-CoranaCo	Type C C s for Proble A10 - 2 cm A16 - Coast S3 - 5cm M S7 - Dark S S8 - Polyval S9 - Thin D F12 - Iron-h F19 - Piedm F19 - Piedm TF12 - K TF16 - Mesic	Location M M M M matic Soils Muck (LRAK L MURA Prairie Redox (LR Muck (LRAK L MURA Prairie Redox (LR Muck (LRAK L M) LOCATION MURA Manganese Masse Longanese Masse Longanese Masse Longanese Masse Longanese Masse Longanese Masse Locate Material Spodic (MURA 1444, Shallow Dark Sul In Remarks)	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam 1449) RK L R) (LRRK L R) (LRRK L R) S (LRRK L R) SS (LRRK L R) 145, 1469) 145, 1469) 145, 1469)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	group): tion (Describe the Performance of Performa	Fypic Haplosapris Horizon 1 2 3 licators (check hoedon ic) Suffide Layers Below Dark Surface rk Surface rk Surface rk Surface rk Mineral syed Matrix dox Alatrix	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90 sre not pr \$8 - Poly \$9 - Thin \$11 - Hig F1 - Loan F2 - Loan F3 - Depl F6 - Red F7 - Depl	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	Matrix CS-Contractor edox Features % 5 10 Indicators	Type C C s for Proble A10 - 2 cm A16 - Coasls S3 - 5 cm M S7 - Dark S S8 - Polyval S8 - Polyval F12 - Iron-h F19 - Piedm F21 - Red P TA6 - Messic TF12 - Very Other (Expla	Location M M M M M matic Soils Muck (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA LA SUfface (LRRK L MLRA LA SUffa	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam 1449) RK L R) (LRR K L R) S (LRR K L R) S (LRR K L R) IS (URA 1449) 145, 1459)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	Bottom Depth 6 8 8 24	Fypic Haplosapris Horizon 1 2 3 licators (check in bedon bed	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1	% 100 95 90	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	so Matrix, CS-Construction edox Features %	Type C C C C C G G Froble A10 - 2 cm A16 - Coasls S7 - Dark S S8 - Polyval S9 - Thin Di F12 - Iron-h F19 - Piedm F21 - Red P TA6 - Messic TF12 - Very Other (Exple	Location M M M M matic Soils Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAirie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LR	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric Restrictive Lay (If Observed)	Bottom Depth 6 8 8 24	Fypic Haplosapris Horizon 1 2 3 licators (check hoedon ic) Suffide Layers Below Dark Surface rk Surface rk Surface rk Surface rk Mineral syed Matrix dox Alatrix	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1 icators a	% 100 95 90	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	Matrix CS-Contractor edox Features % 5 10 Indicators	Type C C C C C G G Froble A10 - 2 cm A16 - Coasls S7 - Dark S S8 - Polyval S9 - Thin Di F12 - Iron-h F19 - Piedm F21 - Red P TA6 - Messic TF12 - Very Other (Exple	Location M M M M matic Soils Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAirie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LR	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam 1449) RK L R) (LRRK L R) (LRRK L R) S (LRRK L R) SS (LRRK L R) 145, 1469) 145, 1469) 145, 1469)
Map Unit Name Taxonomy (Sub Profile Descrip Top Depth 0 6 8 NRCS Hydric	Bottom Depth 6 8 8 24	Fypic Haplosapris Horizon 1 2 3 licators (check in bedon bed	Color 10YR 10YR 10YR	Matrix (Moist) 3/2 3/2 4/1	% 100 95 90	10YR 10YR 10YR 10YR 10YR 10YR 10YR 10YR	Color (Moist) 4/6 5/6): w Surface (IRR R MIRA 1436) Sands Mineral (IRR K L) Matrix X Irface Surface Surface Surface Surface	so Matrix, CS-Construction edox Features %	Type C C C C C G G Froble A10 - 2 cm A16 - Coasls S7 - Dark S S8 - Polyval S9 - Thin Di F12 - Iron-h F19 - Piedm F21 - Red P TA6 - Messic TF12 - Very Other (Exple	Location M M M M matic Soils Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LR Muck (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA Prairie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAirie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LRRK L MLRA PRAIrie Redox (LR	Texture (e.g. clay, sand, lo silty clay loam silty clay loam silty clay loam



Project/Site:	Ridge Road				Wetland ID: W-1 Sample Poin
		12			
/EGETATION Tree Stratum (P	(Species identified in all uppercase are non-na lot size: 10 meter radius)	ative species.)		N S
1100 000.011 (1	Species Name	% Cover Dor	minant	Ind Status	Dominance Test Worksheet
1.	Acer negundo	30	Y	FAC	
2,	Quercus macrocarpa	3	N	FACU	Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.		100001			
4.	**	10000	ine.		Total Number of Dominant Species Across All Strata: 4 (B)
5.	••	107 E/		500	
6.		10000	1011		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/E
7.	55	1000			T Clock of Dollars Copocios Trist No CDE, TNON, OT TNO (VI
8.	55	2014G 2 712 2	175	9	Prevalence Index Worksheet
9.	**	3 77 0	755	55	Total % Cover of Multiply by:
10.		***			OBL spp. 0 x 1= 0
10.	Total Cover =	33	.55	F-5.	FACW spp. 40 x 2 = 80
	Total Cover =	33			FAC spp. 100 x 3 = 300
	and a fine of the second		_		
	ratum (Piot size: 5 meter radius) Cornus racemosa	60	Υ	FAC	FACU spp. 3 x 4 = 12 UPL spp. 0 x 5 = 0
1.					OFL SPD. 0 X 3 - 0
2.		Sell	1000	77	Tatol 442 /A1 202 /D1
3.	- S	(575)	2911	551	Total 143 (A) 392 (B)
4.	**	15-1W	55	(9.5%)	Daniel Control of the
5.	**		1800	ea:	Prevalence Index = B/A = 2.741
6.	*	192/1	575	850	
7.	=======================================		-73		
8.	55		700		Hydrophytic Vegetation Indicators:
9.	_ 55	1250	-		Yes X No Rapid Test for Hydrophytic Vegetation
10.	55	(**)	57		X Yes No Dominance Test is > 50%
	Total Cover =	60			X Yes No Prevalence Index is ≤ 3.0 *
					Yes X No Morphological Adaptations (Explain) *
lerb Stratum (Pl	ot size: 2 meter radius)				Yes X No Problem Hydrophytic Vegetation (Explain) *
1.	Pilea pumila	30	Υ	FACW	* Indicators of hydric soil and wetland hydrology
2.	PHALARIS ARUNDINACEA	10	Y	FACW	present, unless disturbed or problematic.
3.	Geum canadense	5	N	FAC	1, 2 <u>1</u> N
4.	RHAMNUS CATHARTICA	5	N	FAC	Definitions of Vegetation Strata:
5.	mm	100	55	751	
6	55	1880	-		Tree - Woody plants 3 in. (7.6cm) or more in diamete
7.		31 755 88	100	55	at breast height (DBH), regardless of height.
8.		HEEV!	575	578	
9.	**	1000	-	55	Sapling/Shrub - Woody plants less than 3 in. DBH and greater
10.	**	il es ti	-	8 50	than 3.28 ft. tall.
11.	**		=	55	
12.	55			**	Herb - All herbaceous (non-woody) plants, regardless
13.	en .	(##)			of size, and woody plants less than 3.28 ft. tall.
14.	**	(**)	-		-
15.	25	-			Woody Vines - All woody vines greater than 3.28 ft. in height.
	Total Cover =	50			
	10.2.00.01				
Voody Vina Stra	tum (Plot size: 10 meter radius)		_		
1.	tuni (Fiot size. To meter raolus)	7			
2.	••	15000			
3.	en a	6 70 0	155		Hydrophytic Vegetation Present X Yes No
1000		1876600			[4] 보고도 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2 · 2
4. 5.	**	10000			
o.		0		- 22	
N.C. SERVICE PROPERTY.	Total Cover =		nu:		D. How we still not a still the country to the control of the
Remarks:	Shrub-carr transitions into wet meadow	to the sout	u).		
00					
				.05	X
dditional Re	emarks:			107	X 2 2

ASSURED WETLAND DELINEATION REPORT

Ridge Road Appendix C– Site Photographs November 27, 2017

Appendix C – Site Photographs



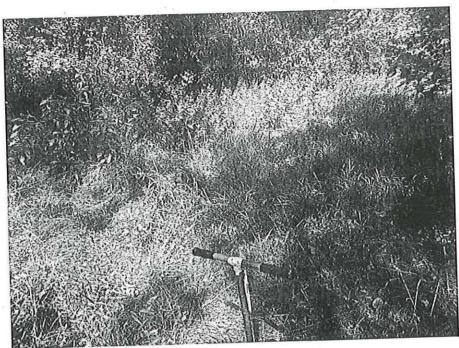


Photo 1. Sample Point P-1; view north

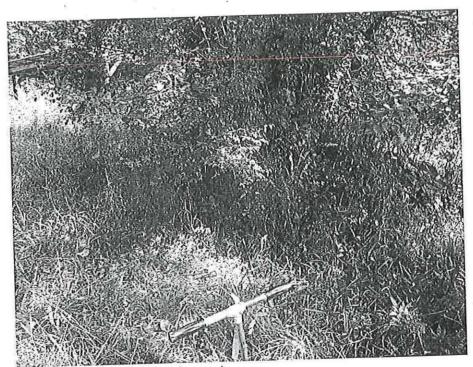


Photo 2. Sample Point P-1; view east

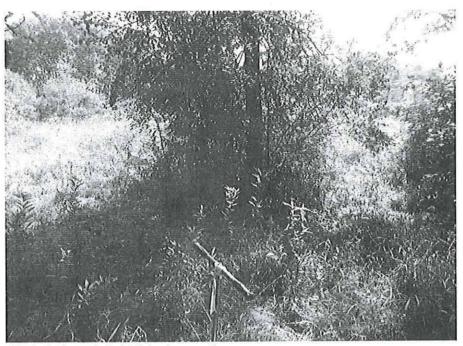


Photo 3. Sample Point P-1; view south

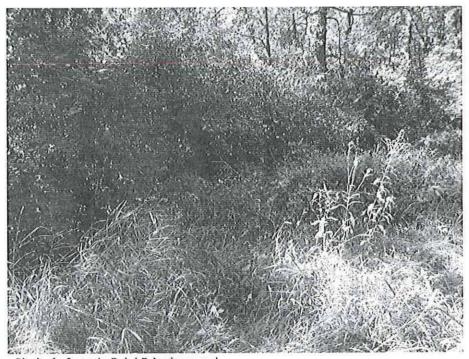


Photo 4. Sample Point P-1; view west

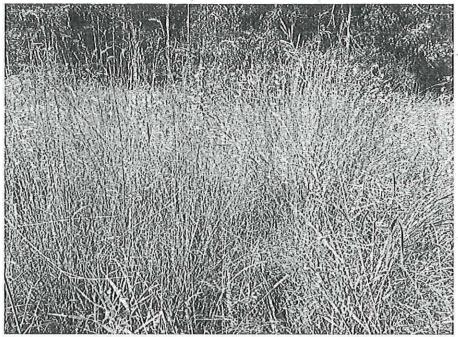


Photo 5. Sample Point P-2; view north



Photo 6. Sample Point P-2; view east

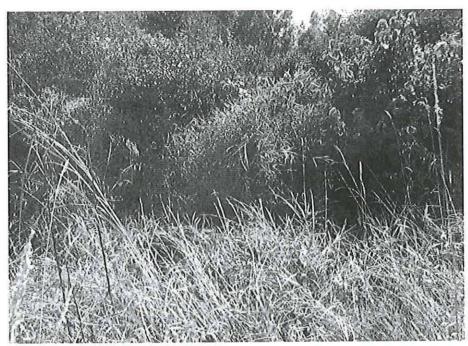


Photo 7. Sample Point P-2; view south



Photo 8. Sample Point P-2; view west



Photo 9. Sample Point P-3; view north

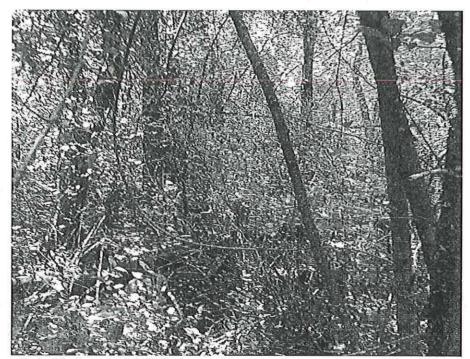


Photo 10. Sample Point P-3; view east



Photo 11. Sample Point P-3; view west



Photo 12. Sample Point P-4; view west

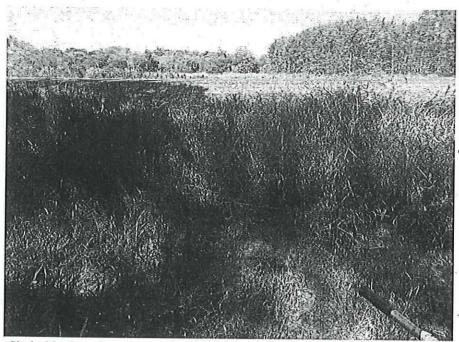


Photo 13. Sample Point P-5 within W-3; view north towards road

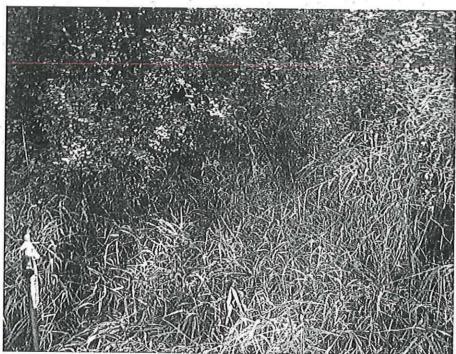


Photo 14. Sample Point P-5; view south towards P-6



Photo 15. Sample Point P-8; view west towards P-7



Photo 16. Sample Point P-8; view east

ASSURED WETLAND DELINEATION REPORT

Ridge Road Appendix D– WETS Analysis November 27, 2017

Appendix D – WETS Analysis



WETS Analysis Worksheet

Project Name:

Ridge Road

Project Number: 193705554

Period of interest: July - September

Station:

Dane County Regional Airport

County:

Dane County, WI

Long-term rainfall records (from WETS table)

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	August	2.81	4.31	5.18
2nd month prior:	July	2.92	3.99	4.70
3rd month prior:	June	2.59	4.43	5.39
		C	40.70	

Sum = | 12.73 |

Site determination

	Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
	3.85	Normal	2	3	6
	6.52	Wet	3	2	6
	6.73	Wet	3	1	3
Sum =	17.10			Sum*** =	15

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

Determination:

Wet

**Condition value:

***If sum is:

Dry Normal

Dry = 1 6 to 9

then period has been drier than normal

Normal = 2

10 to 14

then period has been normal

Wet =

15 to 18

then period has been wetter than normal

NOTE: Field work completed September 20, 2017. Only 0.16 inch of precipitation received from September 1-19, 2017.

Precipitation data source:

http://agacis.rcc-acis.org; http://mrcc.isws.illinois.edu/CLIMATE/

Reference:

Donald E.Woodward, ed. 1997. Hydrology Tools for Wetland Determination, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture,

Natural Resources Conservation Service, Fort Worth, TX.

ASSURED WETLAND DELINEATION REPORT

Ridge Road Appendix E– Delineator Qualifications November 27, 2017

Appendix E– Delineator Qualifications



Jeffrey D. Kraemer W.P.LT.

Senior Scientist / Project Manager



Mr. Kraemer specializes in environmental regulatory support and policy. He has substantial experience working with the local, state, and federal regulatory agencies on complex, often controversial projects. Mr. Kraemer has substantial experience assisting clients at the project planning level to identify and plan for environmental regulatory implications and risk across many industry sectors with particular expertise in the utility and private development industries. Mr. Kraemer has a thorough understanding of the technical and regulatory aspects of environmental projects. His experience includes: Project critical issues analysis/permitting feasibly assessments; Wetland and other natural resource investigations, mitigation planning, and permitting; Clean Water Act and Endangered Species Act studies and consultation; and National Environmental Policy Act documentation (EA/EIS).

In addition to environmental regulatory expertise, Mr. Kraemer has a strong technical background in wetland ecology and botany and manages Stantec's Midwest ecological restoration implementation group. This group is responsible for building, managing, and monitoring natural area restoration projects such as wetland mitigation. Mr. Kraemer is an assured wetland professional through the Wisconsin Department of Natural Resources Wetland Delineation Professional Assurance Initiative and has extensive environmental consulting experience as both a field ecologist and project manager.

EDUCATION

Wetland Training Institute, Training, Wetland Soils and Hydrology, 2003

Vegetation of Wisconsin Workshop, Training, UW-Milwaukee, 2000

Wetland Delineation Training Workshop, Continuing Education and Extension, UW-La Crosse, 2001

Identification of Sedges Workshop, Training, UW-Milwaukee, 2001

Environmental Corridor Delineation Workshop, Training, Southeastern Wisconsin Regional Planning Commission (SEWRPC), 2004

M.S. – Biological Sciences (Emphasis in Wetland Ecology), University of Wisconsin, Milwaukee, Wisconsin, 2003

B.S. – Biological Sciences (Emphasis in Aquatic Biology), University of Wisconsin, La Crosse, Wisconsin, 1999

Assured Wetland Delineator, Milwaukee, Wisconsin, 2008

REGISTRATIONS

Professionally Assured Wetland Delineator, Wisconsin Department of Natural Resources

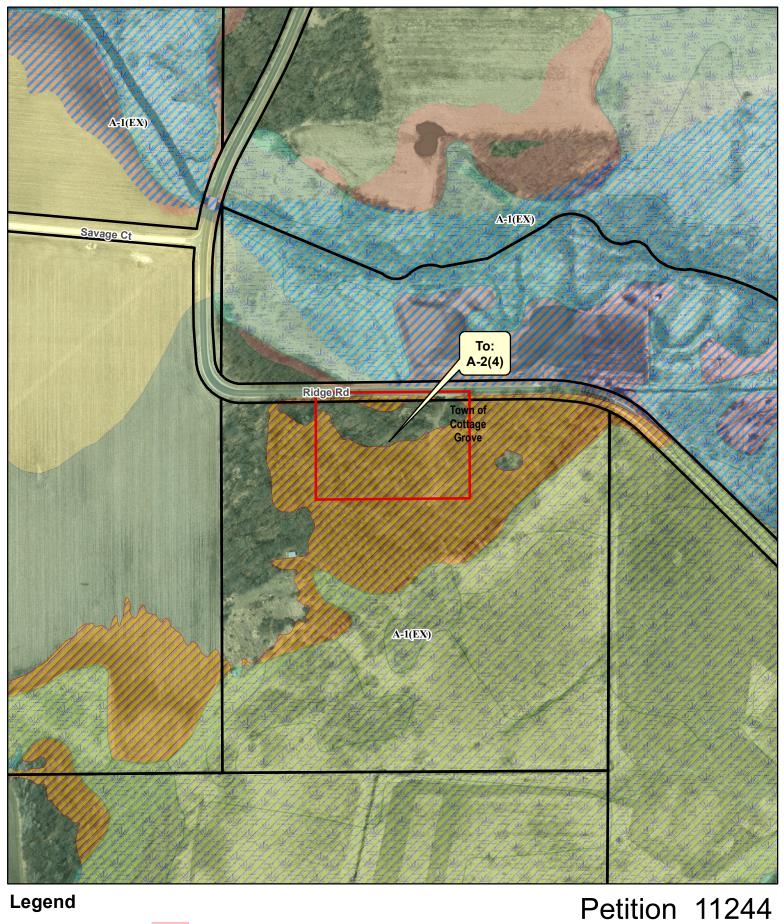
Wetland Professional in Training (WPIT), Society of Wetland Scientists Certification Program

MEMBERSHIPS

Member, Society of Wetland Scientists

Member, Wisconsin Wetlands Association

^{*} denotes projects completed with other firms



Significant Soils Floodplain
Class

Class 1

Class 2

O 115 230 460 Feet

Petition 11244 PETE ANDRINGA