Dane County Rezone & Conditional Use Permit

Application Date	Petition Number
04/20/2017	DCPREZ-2017-11150
Public Hearing Date	C.U.P. Number
06/27/2017	

owi	NER INFORMATI	ON		A	GENT INFORMAT	TON
OWNER NAME SUSAN K BARBER		PHONE (wit Code)		AGENT NAME ADAM BUHALOG		PHONE (with Area Code) (608) 577-6516
BILLING ADDRESS (Number & 3619 AUDREY LN	Street)			ADDRESS (Number & Stree 2300 W MILWAUK		
(City, State, Zip) STOUGHTON, WI 53	589			City, State, Zip) STOUGHTON, WI	53589	
E-MAIL ADDRESS				E-MAIL ADDRESS AMBUHALOG@GN	MAIL.COM	
ADDRESS/LO	CATION 1	AL	DDRESS/L	OCATION 2	ADDRESS	S/LOCATION 3
ADDRESS OR LOCATION	OF REZONE/CUP	ADDRESS	OR LOCATION	ON OF REZONE/CUP	ADDRESS OR LOCA	ATION OF REZONE/CUP
1987 BARBER DRIVE						
TOWNSHIP DUNN	SECTION 26	TOWNSHIP		SECTION	TOWNSHIP	SECTION
PARCEL NUMBERS	INVOLVED	PAR	CEL NUMBE	RS INVOLVED	PARCEL NUM	BERS INVOLVED
0610-262-9	910-2					
REAS	SON FOR REZONE				CUP DESCRIPTION	ON
					-	
FROM DISTRICT:	TO DISTR		ACRES	DANE COUNTY C	ODE OF ORDINANCE	SECTION ACRES
RE-1 Recreational District	PUD Planned	Unit	1.3			
B-1 Local Business District	PUD Planned	Unit	1			
R-3 Residence District	PUD Planned	Unit	1.4			
C.S.M REQUIRED?	PLAT REQUIRED?		STRICTION UIRED?	INSPECTOR'S INITIA	LS SIGNATURE:(Own	er or Agent)
	Yes No	Yes	Ø No	нлнз (Wall hel	
Applicant Initials Ap	oplicant Initials	Applicant Ini	tials		PRINT NAME:	
					Paul L. Sch	lieve
					4/20/20	017
					1/2/2	Form Version 03.00.03





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 each 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 I	Name Adam and Br	ittany Buhalog	Agent's Name	
Address	2300 W. Milwaukee Street, Stoughton, WI 53589		Address	
Phone			- Phone	
Email	(608) 577-6516		Email ——	
Lillali	ambuhalog@gmai	l.com	- Liliali	9880-0
Town: Du	ınn	Parcel numbers affected:	0610-262-9910-2, 061	10-262- 0962=0 , 0610-262-98 66-0 , 0610-262-9894-0
Section:_	26	Property address or locati	on: 1995 Barber Dr,	Stoughton
Zoning Di	istrict change: (To	From / # of acres) PUD / R3	/ 2.35, PUD / B	1 / 1.38
O Sepai O Creat O Comp O Other	: (reason for chang ration of buildings ion of a residential bliance for existing	lot structures and/or land uses		
	hat I am the owner or h	ave permission to act on behalf of the	owner of the property.	Date: 04/20/2017

NARRATIVE FOR PROPOSED PUD ON BARBER ROAD TOWN OF DUNN FOR A CLIMATE CONTROLLED STORAGE FACILITY AND A SINGLE FAMILY HOME

This project is being proposed by the Applicant/Developer Adam & Brittany Buhalog, who currently reside at 2300 West Milwaukee Street in Stoughton, Wisconsin.

The entire project encompasses 3.73 acres, cumulatively, on both sides of Barber Road. The first parcel, on the West side of Barber Road, is a 2.35 acre site on which the Barber Bay Inn is situated. It is more precisely known as Parcel #0610-262-9910-2 and Parcel #0610-262-9852-0, T06N R10E Section 26, SE ¼ of the NW ¼. The second parcel, on the East side of Barber Road, consists of 1.38 acres, and is better known as Parcel #0610-262-9866-0 and Parcel #0610-262-9894-0 – otherwise known as Lots 2 & 3 of CSM #150179.

The proposed plan has two elements set forth for consideration. First, on the 2.35 acres on the West side of Barber Road on which the Barber Bay Inn is situated, the proposal is for a fully enclosed, climate controlled, self-storage facility. Second, on the East side of Barber Road, Adam and Brittany Buhalog plan on building a home between 4000 and 6000 square feet.

The current Certified Survey Map depicts the parcels on both the East and West sides of Barber road as each consisting of two individual parcels. As part of this proposal, approval will be sought for a new Certified Survey Map that consolidates the two lots on the East side of the road (#0610-262-9866-0 and #0610-262-9894-0) into a single parcel and the two parcels on the West side of the road (#0610-262-9910-2 and #061026298520) into a single parcel. The result will be one parcel on the West side of Barber Road and one parcel on the East side of Barber road.

On the West side of Barber Road the current use (Barber Bay Inn) consumes 41,210 S.F. of the lot leaving 61,447 S.F. of open space. The proposed climate controlled self-storage facility consumes 36,117 S.F. of the lot leaving 66,139 S.F. of open space. This will increase the open space of the lot by 8%. A total of 13,614 square feet of wetland will need to be rezoned out of wetland—of this 293 S.F wetland will be permanently filled. On the East side of Barber Road the proposed use is one single family home with a total impervious surface impact of 5000 S.F. on a lot that consists of 60,112.8 S.F. or

1.38 acres. This is an impervious surface impact of 8.4%. Based on the overall scope/scale of the proposed development it falls well within the typical bulk requirements found under zoning districts.

Adam and Brittany Buhalog have retained Cardno Environmental as their consultant for open space restoration. At this point in time, Cardno has proposed a multi-faceted restoration plan for all open space on both the West and East side of Barber Road. The restoration plan calls for the following: a) Mesic Pollinator; b) Sedge Meadow; c) Wet/Mesic Prairie; and, d) Wetland Edge. The Buhalogs, as a part of the PUD process, will agree to maintain the quality of the restored areas.

The proposed uses of the property will result in a reduced traffic and parking load. The proposed self-storage facility on the West side of Barber Road provides for 9 vehicular parking spaces. This represents an approximately 80% reduction in parking space and the associated traffic load as compared to the historical use of the property for the Barber Bay Inn bar and restaurant. The proposed single-family residence on the East side of Barber Road will replace the historical use of the property as a seasonal recreational vehicle / trailer park with space for approximately 12 dwelling units. The reduction of 12 transient dwelling units to one permanent dwelling unit represents a substantial reduction in both traffic and parking.

The relationship of nearby properties is somewhat limited. On the East side of Barber Road the contiguous property to the North is single family residential. To the South there are condominiums. On the West side of Barber Road there is open space to the South and residential to the North. While the proposal on the West side of Barber Road does not wholly relate to the Town Comprehensive Plan there have been a unique set of issues surrounding the 2.68 acres that the Applicant/Developer has been attempting to ameliorate to deliver a solution.

The current timeline on this development, should approvals be forthcoming, is to break ground this fall, and complete the project by mid-summer of 2018.

Respectfully Submitted,

Adam Buhalog
Applicant/Developer

DIMENSION Madison Design Group

architecture · interior design · planning 6515 Grand Teton Plaza, Suite 120, Madison, Wisconsin 53719 p608.829.4444 f608.829.4445 dimensionivmadison.com

BARBER DRIVE CLIMATE CONTROLLED STORAGE

BARBER DRIVE. TOWN OF DUNN, WI



1) Exterior View to SW



Architecture:

Dimension IV - Madison Design Group

6515 Grand Teton Plaza, Suite 120, Madison, WI

53719

p: 608.829.4444

www.dimensionivmadison.com

Civil **Engineering:**

Quam Engineering 4604 Siggelkow Rd., Ste A, McFarland WI 53558 p: (608) 838-7750

rquam@quamengineering.com

BUILDING DATA:

STORAGE OCCUPANCY: S1 Storage

STORIES: 2 HEIGHT: 33'-7" Max. AREA: 36.910sf/floor=

73.820sf total

RESIDENTIAL HEIGHT: 27' MAX

STORIES: 2 AREA: 4,400GSF TOTAL

SHEET INDEX: STORAGE CONCEPT SITE PLAN

FLOOR PLANS **ELEVATIONS**

RESIDENCE CONCEPT SITE PLAN RESIDENCE CONCEPT FLOOR PLANS RESIDENCE CONCEPT ELEVATIONS

RESIDENCE CONCEPT 3D VIEWS

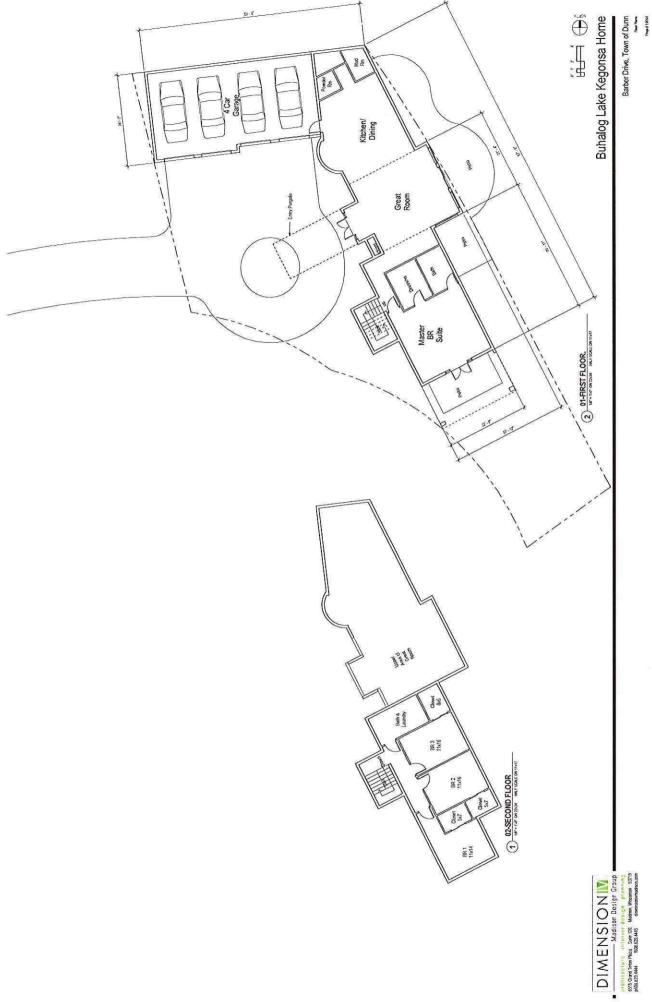
GDP SUBMITTAL

16064

20 APRIL 2017

G0.1

LOCATION MAP





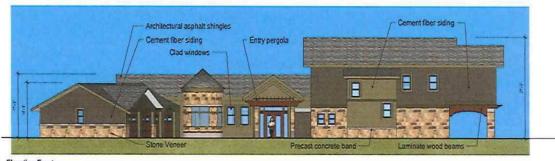
View to NW



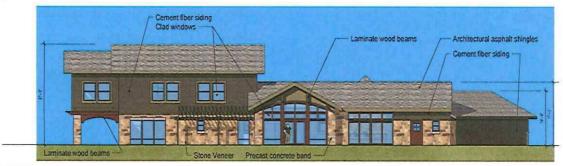
View to SE



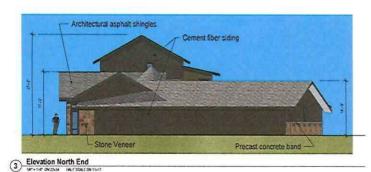
Buhalog Lake Kegonsa Home



2 Elevation Front



1 Elevation Lakeside

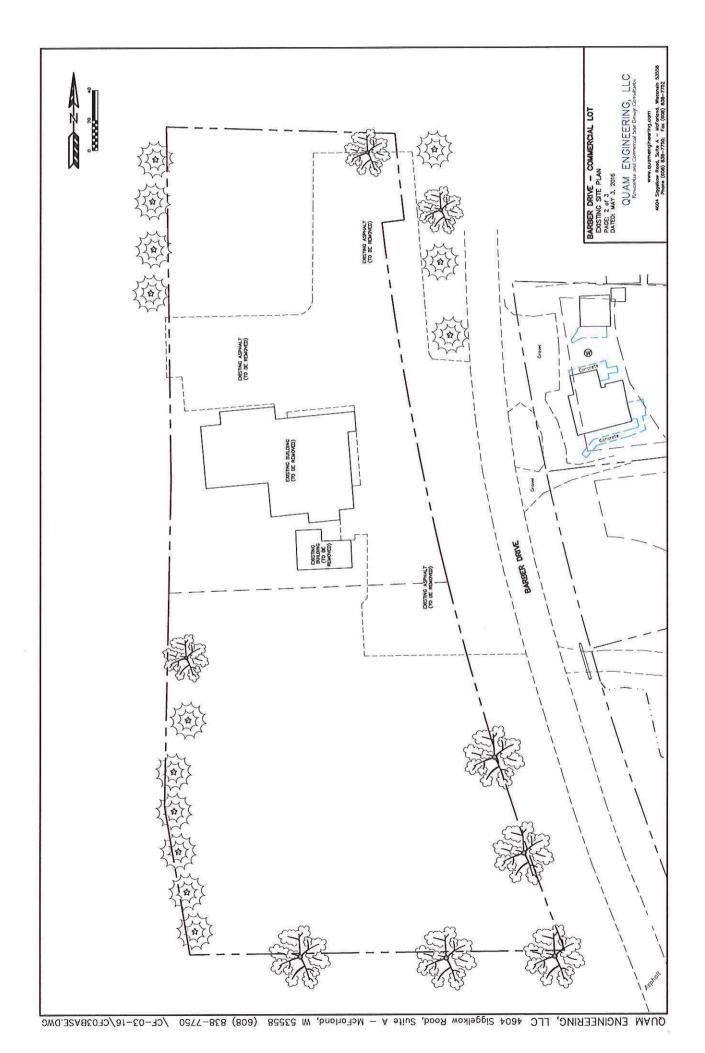


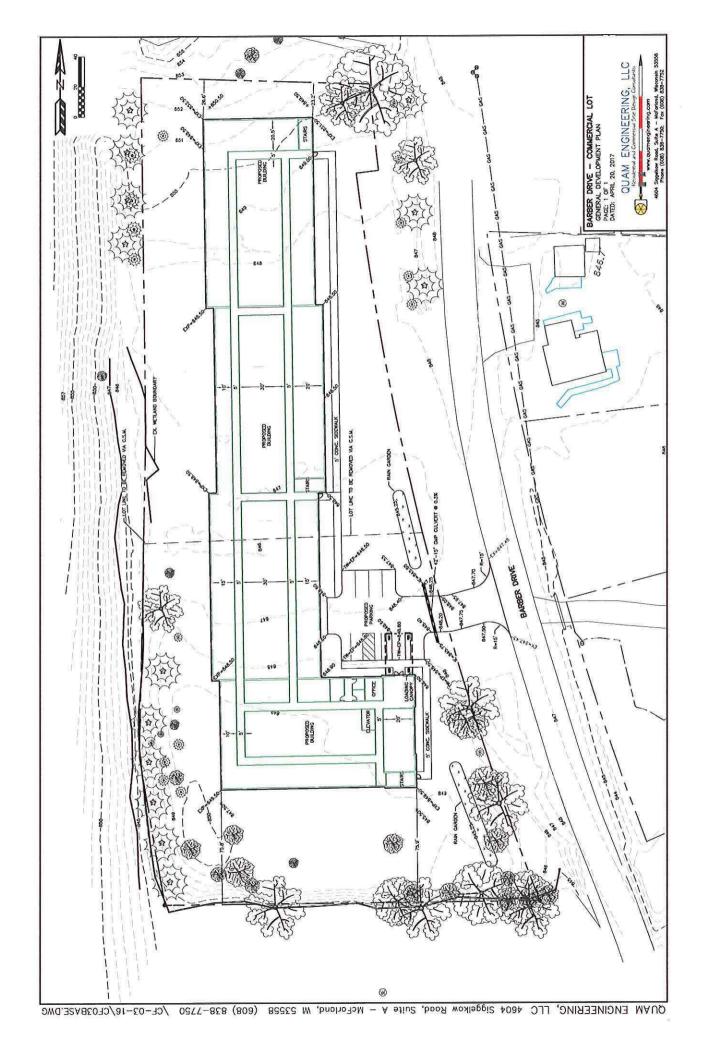


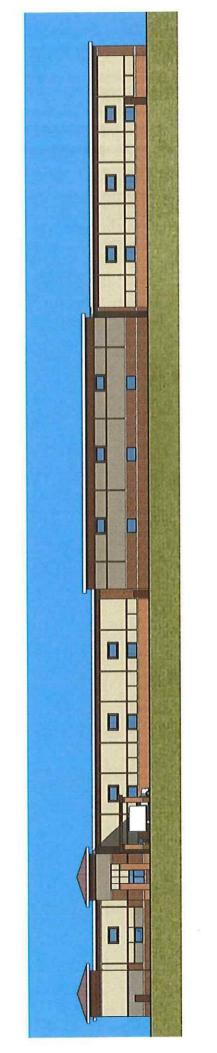
4 Elevation South End

DIMENSION

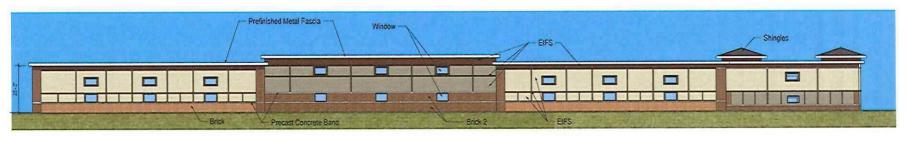
Buhalog Lake Kegonsa Home



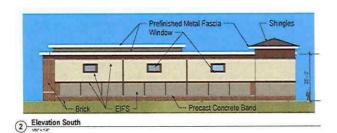


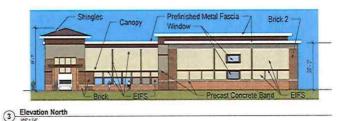






4 Elevation West (Back)

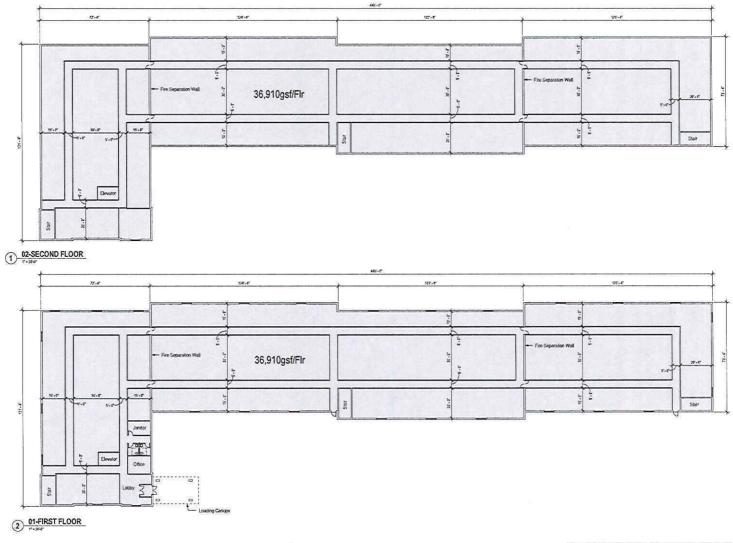






DIMENSION IN Madison Design Group

BARBER DRIVE CLIMATE CONTROLLED STORAGE





BARBER DRIVE CLIMATE CONTROLLED STORAGE

Wetland Delineation Report

Town of Dunn Storage Lockers

J168349900



Prepared for Adam Buhalog

September 9, 2016



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Date

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1 Introduction

Cardno was contracted to perform a wetland delineation of the parcel located at 1973 Barber Drive, Town Dunn, Dane County, Wisconsin (Figure 1). Mr. Adam Buhalog is proposing to build a new commercial facility on the approximate 2.82-acre parcel. This parcel and associated delineation boundary are depicted in Figures 1-5. Results from this wetland delineation may impact parcel purchase, design, and permit requirements.

Based on field investigations conducted by Cardno on September 6th, 2016 and review of related resource maps, it is our professional opinion that one wetland totalling 0.61 acres (26,758.95 sq. ft.) and one waterway exist within the project area.

The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the USACE, state regulation under the jurisdiction of the Wisconsin Department of Natural Resources (WDNR), and local jurisdiction under the county, town, city, or village.

This report outlines the wetland delineation investigation, methodology, and its findings as completed by Cardno staff. Team members are trained and experienced in delineation methodologies and applicable regulations.

- Zach Waechter Senior Project Scientist Project Manager; Lead Field Delineator: Zach has been working in the field of wetland ecology for over four years and hold Bachelors' of Science in Soil and Land Management and Resource Management from the University of Wisconsin-Stevens Point. As Senior Project Scientist, Zach conducts environmental surveys, including wetland delineation, site characterization, land cover classification, survey of the work area for environmental considerations, pre-construction threatened and endangered species surveys, invasive species mapping, and hydrologic survey of wetland mitigation sites, with an emphasis on utility (oil, electric, transportation) sectors. He writes reports for wetland delineations, wetland mitigation site monitoring, wetland mitigation site searches, and environmental impact statements.
- Will Taylor Staff Scientist Field Delineator: Will has been working in the field of wetland
 ecology and restoration for over three years and holds a Bachelor's of Science in Conservation
 Biology from the University of Wisconsin-Madison. He has conducted restoration and
 mitigation site monitoring for over three years. Currently, Will leads and assists with wetland
 delineations, habitat surveys, restoration projects, and report writing.
- Jameson Loesch Senior Staff Scientist Geospatial Manager: Jameson maintains a leading role as a GIS analyst, while also providing technical support for field work. He is responsible for the acquisition/creation, management and analysis of large datasets for both small and large multi-year projects, as well as the creation of maps and figures for many of Cardno's GIS projects. With nine years of experience in spatial data analysis, Jameson often works with project managers and clients to develop custom GIS tools, which help to standardize analysis and increase efficiency. Jameson conducts FSA Slide Reviews and also takes part in field botany efforts for wetland delineations, endangered species surveys, wetland mitigation bank monitoring, botanical inventories, as well as aid in the preparation of reports.
- Alex Cohen GIS Technician –: Alex has several years of experience in natural resource ecology, including field work, GIS analysis, cartography, and modelling. He holds an M.S. in Computational Ecology from Purdue University and a B.S. in Biology/Psychology from Calvin

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College. Currently, Alex provides GPS/GIS support, data analysis/statistical capabilities, programming expertise, aerial image analyses, and mapping services. He also performs endangered species surveys and assists in the field with wetland delineations and other surveys.

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2 Methods and Desktop Review Results

2.1 Background Information

Sources of information were consulted to identify potential wetlands within the Project Area. These sources include:

- United States Geological Survey (USGS) Digital Elevation Topographical Map (Figure 2)
- USDA-NRCS Web Soil Survey Database for Milwaukee and Racine Counties, WI (Figure 3)
- WDNR Wisconsin Wetlands Inventory (WWI) Mapping (Figure 3)
- ESRI Basemap 2015 Aerial Photograph (Figures), Google Earth Historic Aerial Imagery
- WDNR Surface Water Data Viewer

These maps identify potential wetlands and wetland soil units. The sole use of any of these maps to make wetland determinations is not acceptable. Descriptions of findings from the review of this background information is provided in the subsections, below.

2.1.1 USGS Digital Elevation Topographical Map

The contours on the topographic map were created using a USGS digital elevation model (Figure 2). The topographic map shows the Project Area general sloping to southern boundary of the project area. The Project Area slopes from 848' in the along the northern, 846' eastern, and 854' western boundary's to 844' along the southern boundary.

2.1.2 Soil Survey

The NRCS soil map of the Project Area (Figure 3) identified two soil types, one of which was hydric, totalling 1.38 acres within the Project Area. These soil types are outlined in Table 2-1, below. Areas where hydric soil units exist were further investigated in the field, including collection of Data Points as deemed necessary, to provide evidence of whether or not the area displayed wetland or upland characteristics.

Table 2-1 Mapped Soil Units within the Project Area

Symbol	Map Unit Name	Hydric?	Acreage
Mc	Marshan Silt	No	1.44
Но	Houghton Muck	Yes	1.38
Total		×	2.82

2.1.3 Mapped Wetlands

The WWI map of the Project Area (Figure 3) identified the approximately 0.55 acres of wetland. The wetland, described by type, is outlined in Table 2-2, below. Areas where WWI features exist were further investigated in the field, including collection of Data Points as deemed necessary, to provide evidence on whether or not the area displayed wetland or upland characteristics.

Table 2-2 Mapped WWI Features within the Project Area

Symbol	Long Name	Acreage
E2Ka	Emergent/ Wet Meadow; Narrow-Leaved Persistent; Wet soil, Palustrine; Abandoned	0.55
Total		0.55

2.1.4 Lake Kegonsa Water Levels

The target maximum elevation of 843.50 feet and 100 year floodplain of 845.20 are shown on Figure 4. The polygons showing areas within at or below their respective elevations were created using data from the USGS digital elevation model. The average lake level for the past ten years (9/06/2006-9/06/2016) has been 842.97 feet. All water levels where determined using information from the Dane County Land and Water Resource Department.

2.1.5 Current, Historic, and High-Resolution Aerial Imagery

A 2015 aerial photograph, multiple years of historic imagery (2000-2015), and recent high-resolution imagery were reviewed in order to evaluate the Project Area for possible wetland signatures. Based on this imagery, one potential wetland visual signatures were identified within the Project Area. This signature was field verified during the field reconnaissance.

2.2 Investigation Methodology

The delineation of wetlands and other waters of the State were based on the methodology described in the Corps of Engineers Wetland Delineation Manual (Environmental Laboratory, 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (Environmental Laboratory, 2012) as required by current policy.

Prior to the field work, the background information was reviewed to establish the probability and potential location of wetlands and waterways within the Project Area. A review Project Area was conducted using multiple years of aerial imagery. Areas with potential wetland signatures were verified during the field reconnaissance.

Field surveys of the Project Area were conducted on September 6th, 2016. The site was then walked with the specific intent of determining wetland boundaries. Data Points were sampled during this time at locations within and near the wetland areas to document soil characteristics, evidence of hydrology and dominant vegetation. Soils were examined to a depth of at least 24 inches, unless a restrictive layer was encountered, to assess soil characteristics, site hydrology, and compared to mapped NRCS hydric soils.

Vegetative community boundaries were identified, mapped, and either a representative Data Point or notes on hydrology and dominant vegetation were taken within each of their limits. Identification of community boundaries followed the Key to the Wetland Plant Communities provided in Section 2 of the Wetland Plants and Plant Communities of Minnesota and Wisconsin, Version 3.1 (Eggers and Reed, 2014). Descriptions of the wetland communities encountered can be found in the results section below.

2.2.1 Naming Protocol

Mapped features such as wetlands (W-), waterways (S-), photo points (PP-), and data points (DP-) were named in consecutive order. Naming refers to labels identified on Figures X and X.

Examples:

- W-01, first delineated wetland
- S-01, first delineated waterway.
- DP-01, first data point collected.
- PP-01, first photo point and photo(s) collected.

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2.2.2 Delineation Data Sheets

The Wetland Determination Data Forms – Northcentral Northeast Region (Great Lakes Sub-Region) that were used in the wetland delineation process are located in Appendix A. These forms are the written documentation of how representative Data Points meet or do not meet each of the wetland criteria. The nomenclature and wetland indicator status of vegetation follows the 2016 National Wetland Plant List (Lichvar et al., 2016). Soils were identified using the methods outlined in the USDA NRCS Field Indicators of Hydric Soils in the United States, Version 7.0 (USDA-NRCS 2010).

2.2.3 Site Photographs

Photographs of data points, wetlands, waterways, are located in Appendix B. These photographs are the visual documentation of site conditions at the time of inspection. The photographs are intended to provide representative visual samples of these features found on the site. Photo naming refers to the naming protocol, above, and the labels provided on the Delineated Wetlands and Waterways Figure (Figure 1).

2.2.4 Survey of Wetland Boundary

The Delineated Wetlands and Waterways Figure (Figure 1) reflects the wetland and the vegetative community type boundaries within the Project Area.

Cardno GPS surveyed all Data Point and Wetland, Waterway or Pond boundary locations. The field data collection settings within GPS units use available satellites, including two DGPS (Differential Global Positioning System) satellites, to capture location data. Using the WAAS (Wide Area Augmentation System), satellite readings may provide sub-meter accuracy (generally within 1-2 feet). Cardno's GPS units acquire multiple readings per data point to increase accuracy. Please note that while Cardno's GPS survey provides reasonably accurate spatial information regarding the wetlands delineated, it does not constitute the same accuracy as a professional land survey.

2.3 Recent Climatic Conditions and Precipitation Data

Recent precipitation data was compared with historic precipitation data from a 30-year dataset (1971-2000) from the nearby Stoughton, Wisconsin (#8229) weather station to determine if normal hydrologic and climatic conditions were present on-site during the delineation. When compared to the NRCS WETS Station data, the observed precipitation data form three months prior to the delineation indicated wet precipitation conditions at the time of the delineations. The antecedent precipitation analysis is provided in Table 2-3, below:

Table 2-3 Antecedent Precipitation Analysis for the Project Area

		Long-tern	n rainfall r	ecords					
Month		3 yrs. In 10 less than	normal	3 yrs. In 10 more than	Actual	Condition: Wet, Normal, Dry	Condition Value	Month Weight Value	Product of previous 2 columns
3rd Prior Month	June	2.56	3.84	4.59	5.64	Wet	3	1	3
2nd Prior Month	July	2.83	3.82	4.48	4.77	Wet	3	2	6
1st Prior Month	August	2.97	4.06	4.78	5.80	Wet	3	3	9
	NOTE: if	sum is:						Sum	18

Antecedent Wet Then prior period has been drier than normal Conditions 10 to 14 Then prior period has been normal 15 to 18 Then prior period has been wetter than normal Condition Values: Dry 1 WETS Table WEATHER STATION LOCATION 2 Normal Monthly Rainfall Stoughton, WI8229 Wet 3

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3 Results and Discussion

3.1 General Site Conditions

Based on Cardno's field investigation and review of related resource maps, it is our professional opinion that one wetland totalling 0.61 acres (26,758.95 sq. ft.) and one waterway exist within the Project Area (Figure 1). Descriptions of these features are provided below.

3.2 Wetland 1 Fresh (Wet) Meadow (0.61 Acres, 26,758.95 Square Feet)

Paired data points DP-01/DP-02, DP-04/DP-05, and DP-06/DP-07 were taken at a representative boundary location of Wetland 1. This wetland was situated in a concave local relief position at the toe of a slope. Primary hydrology indicators of surface water (DP-05 & DP-07), High Water Table (DP-05 & DP-07), and Saturation (DP-01, DP-05, & DP-07) were observed within the wetland. Secondary hydrology indicators of Geomorphic Position (DP-01, DP-05, & DP-07) and FAC-Neutral Test (DP-05 & DP-07) were used to determine that wetland hydrology was present. Soil within the wetland plots met the Histic Epipedon (A2), Depleted Below Dark Surface (A12), Loamy Mucky Mineral (F1), and Depleted Matrix (F3) indicators.

A distinguishing visual characteristics that separated the wetland data point from its upland paired point was the change in dominant vegetation (DP-01/DP-02, DP-04/DP-05, and DP-06/DP-07). The wetland points were dominated by the hydrophytic tree species *Thuja occidentalis*, *Acer negundo*, and *Fraxinus pennsylvanica*. Dominate hydrophytic shrub species included *Cornus racemose* and *Rhamnus cathartica*. Dominate hydrophytic herbaceous species included *Phalaris arundinacea*, *Lemna minor*, *Typha angustifolia*, and Setaria pumila. Vegetation in the adjacent uplands was dominated Acer negundo, *Fraxinus pennsylvanica*, *Juglans nigra*, Lonicera tatarica in the tree and shrub strata and dominated by *Festuca rubra*, *Setaria pumila*, *Glechoma hederacea*, *Torilis japonica*, *Bromus inermis*, and *Lonicera tatarica* in the herbaceous strata.

Another distinguishing visual characteristics that separated the wetland data point from its upland paired point and change in elevation and landscape position (DP-04/DP-05, and DP-06/DP-07). Both DP-04 and DP-07 were 2-3 feet higher in elevation over a relatively short distance, 5-15 feet, when compared their respective paired wetland points. In both set of paired points the landscape position changed from concave in the wetland to convex in the upland. The change in elevation was not as drastic between DP-01 and DP-02, the change in elevation was approximately 0.5-1 feet over 15-25 feet. The landscape position changed from concave in the wetland to convex in the upland.

3.3 Naturally Problematic and Significant Disturbed Conditions

The Project Area did not contain areas that exhibited naturally problematic conditions.

The Project Area contained areas that exhibited significantly disturbed conditions. Data Points DP-01, DP-02, and DP-03 where taken in manicured lawn that had been recently mowed. Although the vegetation was still able to be identified it should be considered significantly disturbed. The soil in DP-04 should also be considered significantly disturbed. This soil profile was entirely gravel fill which made it impossible to examine the field indicators of hydric soils.

Although gravel fill was noted in DP-01, DP-02, DP-03, and DP-06 it should not be considered significantly disturbed. When examining the age of the site, buildings and tree (6"-10" DBH), it appears

no changes have occurred within the Project Area in decades. Google Earth historic Imagery dating back to the year 2000 was reviewed. Upon review it was concluded that no major changes have occurred within the Project Area since the year 2000.

In situations where significantly disturbed conditions existed, Cardno field delineators reviewed Section 5, Difficult Wetland Situations in the Midwest Region, of the Regional Supplement to the USACE Delineation Manual: Midwest Region, Version 2.0 (Environmental Laboratory, 2010) and used their best professional judgment to delineate the wetland boundary.

3.4 Waterways

Cardno determined that one waterway existed within the existing Project Area. A summary of that delineated feature is provided in Table 3-4, below. Representative photographs of these features are located in Appendix B. Note that not all waterways may be considered regulated by either the USACE, DNR, or Local jurisdictions.

Table 3-1 Waterway Descriptions

Waterway ID	OHWM Width (Feet)	OHWM Depth (Feet)	Water Depth (Feet)	Velocity (Feet/Second)	Substrat e	Waterbody Name	Connecting Waterbody
S-01	25	4	3	0.1	Mud/Silt	Unnamed	Lake Kegonsa

3.5 Other Water Resources Identified

No other water resources were identified within the project area. No known waterways or stormwater features were identified within close proximity to the project area based on background information review.

There is no known previous wetland delineation mapping of the project area.

September 2016 10

4 Summary and Conclusion

Cardno completed a wetland delineation and assessment of waters of the U.S. and State, including wetlands and waterways, for the proposed commercial facility on this 2.82 acre, parcel located in the Town of Dunn, Dane, Wisconsin.

Cardno conducted field surveys of the Project Area on September 6th, 2016. During these investigations Cardno identified the location and extent of wetlands and waterways within the Project Area. A total of one wetland totalling 0.61 acres were identified and one waterway was identified.

The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the USACE, state regulation under the jurisdiction of the Wisconsin Department of Natural Resources (WDNR), and local jurisdiction under the county, town, city, or village.

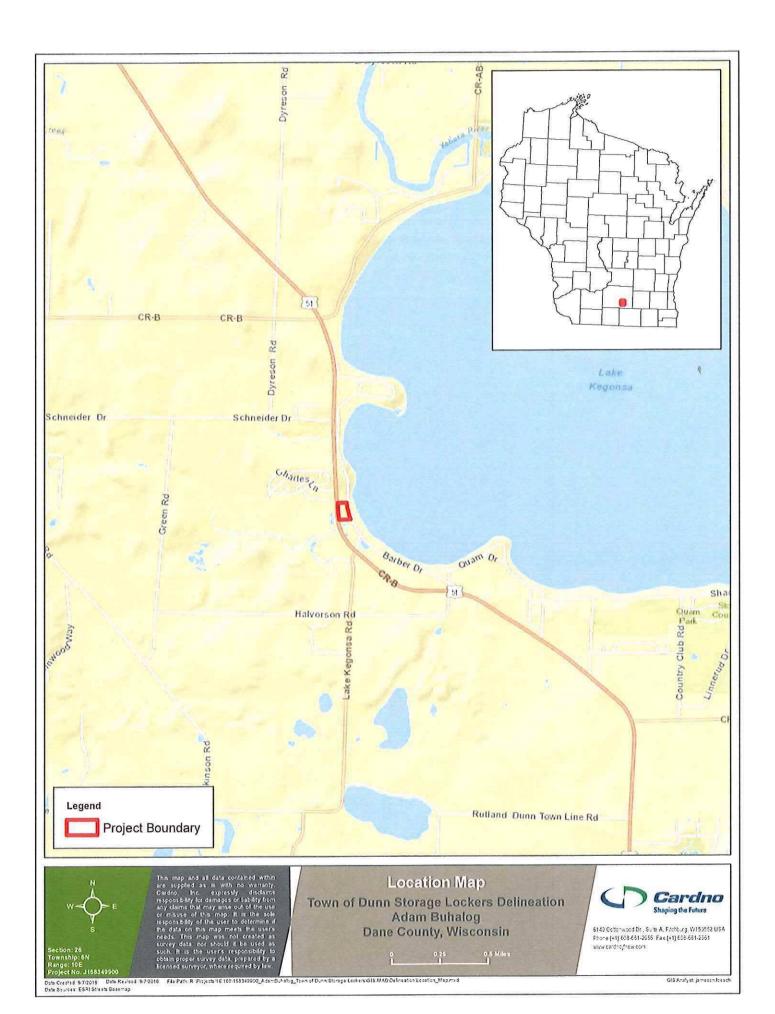
September 2016

5 Literature Cited

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September 2016 12

Town of Dunn Storage Lockers FIGURE 1 **Project Location**



Town of Dunn Storage Lockers FIGURE 2 Topographic Map

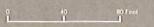




Section: 26 Township: 6N Range: 10E This map and all data contained within are supplied as is with no warranty. Cardno, him, expressly disclaims responsibility for damages or liability from any claims that may arise out of the use or mave of this map. It is the solic responsibility of the user to determine if the data on this map meets the user's needs. This map was not created as survey data, nor should it be used as souch. It is the user's responsibility to obtain proper survey data, prepared by a

Topographic Map

Town of Dunn Storage Lockers Delineation Adam Buhalog Dane County, Wisconsin





6140 Cotsowood Dr., Suite A, Erchburg, WI 53552 USA Phone (+1) 603-651-2555 Fax (+1) 603-651-2961 www.cardnofnew.com

Town of Dunn Storage Lockers FIGURE 3 **Mapped Soil Units**





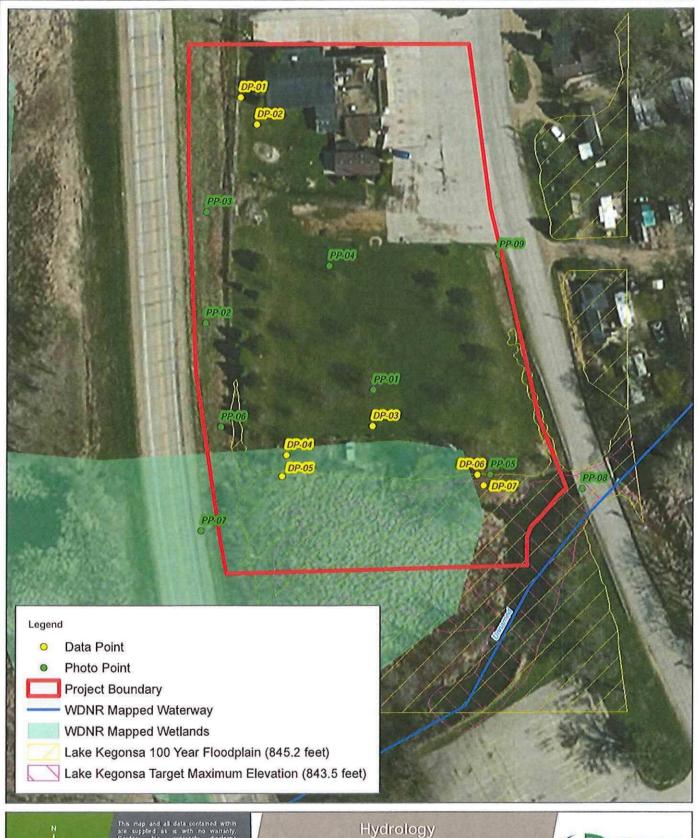
Mapped Soil Units

Town of Dunn Storage Lockers Delineation Adam Buhalog Dane County, Wisconsin



61-01 Cottonwood Dr., Suite A., Festiburg, Wi 53552 USA Promo (+1) 603-651-2555 | Fax (+1) 608-661-2561 www.cardnojfrew.com

Town of Dunn Storage Lockers FIGURE 4 Hydrology Map





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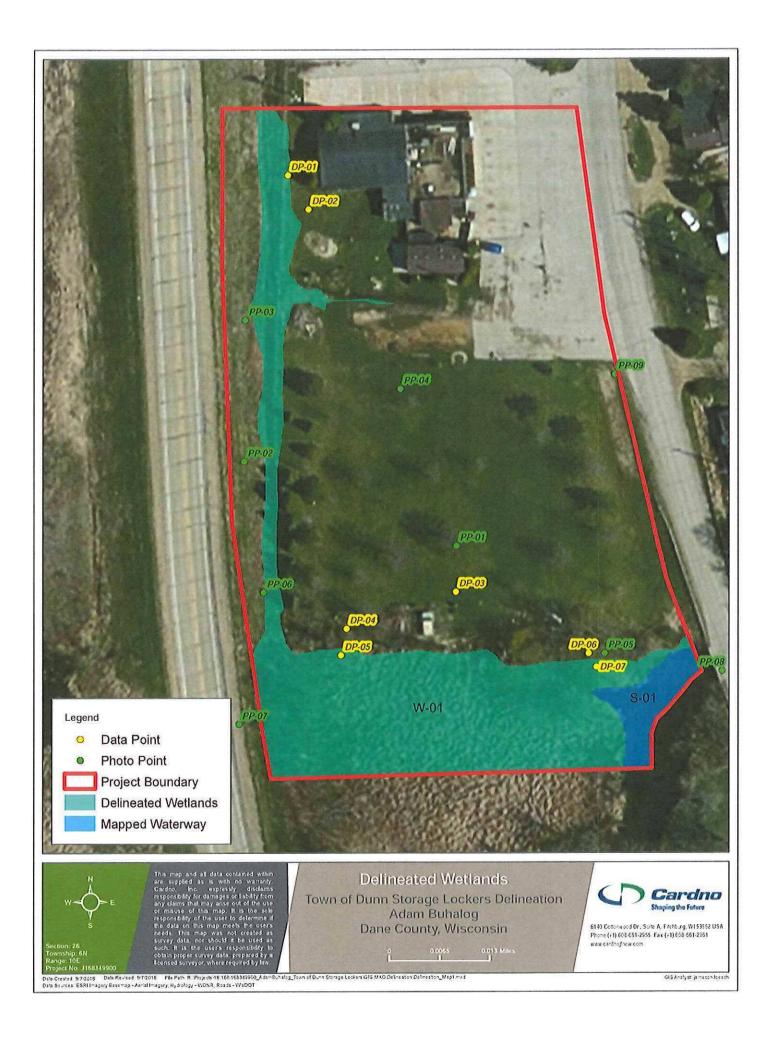
Hydrology Town of Dunn Storage Lockers Delineation Adam Buhalog Dane County, Wisconsin





6140 Cetomood Dr., Suite A, Frichburg, WI \$3552 USA Phone (+1) 803-651-2955 Fax (+1) 803-661-2961 www.cardnofnew.com

Town of Dunn Storage Lockers FIGURE 5 **Delineated Wetlands**



Town of Dunn Storage Lockers

APPENDIX



WETLAND DETERMINATION DATA FORMS NORTHCENTRAL/NORTHEAST REGION

Project/Site:	Town of Dunn Storage	Lockers	City/County:	Dunn/Dar	ie	Sampling Date:	9/6/2016
WONLESS OF THOSE		Legitore			State: WI	Sampling Point:	DP-01
Applicant/Owner.	Adam Buhalog		0	-C/ NOO 2980		er como mesorcomo de la	DI OI
Investigator(s):	Z. Waechter		Section,	Township, Range:		Sec 26, T6N, R10E	
Landform (hillslope, ter	rrace, etc.):	Toeslope		Local relief (concav	e, convex, none):	100 100 100 100 100 100 100 100 100 100	1000000
Slope (%): 1	1% Lat:	42.955040	Long:	-89.280900		Datum:	NAD83
Soil Map Unit Name:	Mc - Marshan S	Silt Loam			NWI classi	fication:	none
Are climatic / hydrologi	ic conditions on the site	typical for this time of year?	Yes	No X (If no,	explain in Remark	s.)	
Are Vegetation	X, Soil	, or Hydrologysign	ificantly disturbed?	Are "Normal Circums	tances" present?	YesN	oX
Are Vegetation	, Soil	, or Hydrology natu	rally problematic?	(If needed, explain a	ny answers in Ren	narks.)	
SUMMARY OF F	FINDINGS Attack	h site map showing s	sampling point locatio	ns. transects. in	nportant featu	res, etc.	
						•	
Hydrophytic Vegetation	on Present?	Yes X No	Is the Sam	No. of the last of			
Hydric Soil Present?			within a We		Yes X	No	-
Wetland Hydrology P	resent?	Yes X No	If yes, optio	nal Wetland Site ID:			
Remarks: (Explai	in alternative procedures	s here or in a separate repo	ort.)			and a second control and a second second	
			were wetter than normal. The		ated in a manicure	ed lawn that had bee	n recently
mowed, although the	vegetation was still able	e to be identified it should be	e considered significantly dist	urbea.			
HYDROLOGY							
Wetland Hydrology	Indicators:			-		imum of two required	1)
Primary Indicators (m	ninimum of one is require				rface Soil Cracks	WOLLOW.	
Surface Water (500 V 100 V	The state of the s	ined Leaves (B9)		ainage Pattems (E	25 A	
High Water Tab	le (A2)	W. C.	auna (B13)		oss Trim Lines (B1	The parties	
X Saturation (A3)		2 AND	osits (B15)		y-Season Water T		
	Water Marks (B1) Hydrogen Sulfide			3 CONTRACTOR 1 CONT	ayfish Burrows (C	The anyone recovers	
Sediment Depo			Rhizospheres on Living Roots			Aerial Imagery (C9)	i
— Drift Deposits (B			of Reduced Iron (C4)	0000 PRES	unted or Stressed	20 A	
Algal Mat or Cru		on Reduction in Tilled Soils (C		eomorphic Position			
Iron Deposits (B	THE PARTY AND ADDRESS OF THE PARTY AND ADDRESS	NO. II. SECTION ASSESSMENT ASSESS	Surface (C7)		iallow Aquitard (D: crotopograpic Reli	S	
The second control of	ole on Aerial Imagery (B7	NA.	olain in Remarks)		C-Neutral Test (D	(6) (2) 10 to	
— Sparsely vegeta	ated Concave Surface (I	00)			(C-Neutral Test (D		
Field Observations:							
Surface Water Prese	nt? Yes	No X Depth (in	nches):				
Water Table Present	? Yes	No X Depth (in	nches):				
Saturation Present?	Yes X	No Depth (in	nches): 8"	Wetland Hydrology	Present?	Yes X No	
(includes capillary frin							
Describe Recorded D	Jata (stream gauge, mo	nitoring well, aerial photos, i	previous inspections), if avail	able:			
15							
Remarks:							
The presence of 1 pri	imary 1 secondary indic	ators at the sample plot pro	vides evidence of wetland hy	rdrology.			

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test Worksheet:
1. Thuja occidentalis	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
3.				Total Number of Dominant Species
4		S		Across All Strata7(B)
5				Percent of Dominant Species That Are
6	-			OBL, FACW, or FAC: 71% (A/B)
7				Bossel on Edward Loads
Coolles/Charle Stratum (District AS 4)	15	= Total Cover		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft.)	46	Yes	FAC	Total % Cover of: Multiply by:
1. Cornus racemosa	15 10	Yes .	FAC	FACW species 15 x 2 = 30
Rhamnus cathartica Lonicera tatarica	10	Yes .	FACU	FAC species 65 x 3 = 195
			TAGO	FACU species 70 x4 = 280
4				UPL species 5 x5 = 25
5.		6 5	-	Column Totals: 155 (A) 530 (B)
6.		: 		Prevalence Index = B/A = 3.42
7	35	= Total Cover		Frevalence index - B/A - 3.42
Herb Stratum (Plot size: 5 ft.)		- Total Cover		
1. Festuca rubra	40	Yes	FACU	Hydrophytic Vegetation Indicators:
2. Setaria pumila	35	Yes	FAC	Rapid Test for Hydrophytic Vegetation
Taraxacum officinale	10	No	FACU	X Dominance Test is >50%
4. Plantago major	5	No	FACU	Prevalence Index is ≤ 3.01
5. Glechoma hederacea	5	No	FACU	Morphological Adaptations ¹ (Provide supporting data
6. Daucus carota	5	No	UPL	in Remarks or on a separate sheet)
7.				Problematic Hydrophytic Vegetation ¹ (Explain)
8.		8		¹ Indicators of hydric soil and wetland hydrology must be
9.		B 84		present, unless disturbed or problematic.
10.		13		
11		9 		
12.		9 0	•	Definitions of Vegetation Strata:
13.				Tree - Woody plants 3 inches (7.6 cm) or more in diameter
14		- N		at breast height (DBH), regardless of height.
15			-	Sapling/shrub - Woody plants less than 3 inches DBH and
16			-	greater than 3.28 ft (1 m) tall.
17		N		Herb - All herbaceous (non-woody) plants, regardless of
18			-	size, and woody plants less than 3.28 ft tall.
19				N M M
20		n		Woody vines - All woody vines greater than 3.28 ft in height.
9 	100	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1. Vitis riparia	5	Yes	FAC	
2.				Hydrophytic
3.				Vegetation
4.				Present ? Yes x No No
	5	= Total Cover	N .	
*	-			

Depth	Matrix	aic dopairi	eeded to document th Rec	iox Feat		ii tiio ubst	since of maleators,			
(inches)	Color (moist)	%	Color (moist)	_ %	Type	Loc²	Texture	Remarks		
0-3"	10YR 3/2	_100_					Silt Loam			
3-10"	10YR 4/1	_ 85	10YR 5/8	5	C	_M_	Sandy Loam			
			10YR 6/2	10	D	M				
					-					
		2)								
				St						
								9		
						-	2 3			
					-					
								-		
		-	The state of the s							
Type: C=Con Hydric Soil Ir		on, RM=Red	duced Matrix, MS=Masl	ced Sand (Grains. ² Loc	ation: PL=	Pore Lining, M=Matrix. Indicators for Problem	natic Hydric Soils':		
Histosol		_	Polyvalue Below	Surface (S	8) (LRR R, I	MLRA) (LRR K, L, MLRA 149B)		
	Histic Epipedon (A2) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA					Coast Prairie Redox (A16) (LRR K, L, R) 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
	Black Histic (A3) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA Loamy Mucky Mineral (F1) (LRR K, L)							7) (LRR K, L, M)		
Stratified Layers (A5) Loamy Gleyed Matrix (F2)							The second secon	V Surface (S8) (LRR K, L)		
	X Depleted Below Dark Surface (A11) X Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6)					State of the state	ce (S9) (LRR K, L) Masses (F12) (LRR K, L, R)			
	Mucky Mineral (S1)		Depleted Dark Su	and the sections				plain Soils (F19) (MLRA 136, 147)		
The second second second	Bleyed Matrix (S4)	-	Redox Depressio	ns (F8)				A6) (MLRA 144A, 145, 149B)		
The second secon	ledox (S5) I Matrix (S6)					Red Parent Material (F21) Very Shallow Dark Surface (TF12)				
1000	rface (S7) (LRR R, LF	RR M, MLR	A 149B)				Other (Explain in			
3Indicators of	hydrophytic vegetation	n and wetlar	nd hydrology must be p	resent, unl	ess disturbe	d or proble	ematic.			
and the same of	ayer (if observed):		, ,,	'						
Туре: С	POOR STATE OF THE PROPERTY OF									
Depth (in		10"				Hudric 9	oil Present?	Yes X No		
Remarks:	iciles).	10				nyunc o	on Fresentr	169 V NO		
	sample plot meets th	e A11 and F	3 Indicators described	in the NRO	CS publication	n Field Inc	dicators of Hydric Soil in th	ne United States - version 7.0.		
								(4)		

Project/Site:	Town of Dunn Storag	je Lockers		City/County:	D	Dunn/Dane		Sampling Date:	9/6/2016
Applicant/Owner:	Adam Buhalog					State:	WI	Sampling Point:	DP-02
Investigator(s):	Z. Waechter			Section	, Township, Ra	ange:	S	Sec 26, T6N, R10E	
Landform (hillslope, te	rrace, etc.):	1	Shoulder		N	(concave, convex	x, none): c	convex	
THE RESERVE OF THE PARTY OF THE	1% Lat:	42.95498	80	Long:	-89.2	280900		Datum:	NAD83
Soil Map Unit Name:	Mc - Marshan	Silt Loam				N	WI classifi	ication:	none
Are climatic / hydrolog	ic conditions on the site	e typical for this time	e of year?	Yes	No_X	(If no, explain in	Remarks	ş.)	
Are Vegetation	X, Soil	, or Hydrology	significanth	y disturbed?	Are "Normal	Circumstances"	present?	YesN	loX
Are Vegetation	, Soil	, or Hydrology	naturally pr	roblematic?	(If needed, e	explain any answe	ers in Rem	narks.)	
SUMMARY OF I	FINDINGS Attac	ch site map sh	owing sampl	ling point locati	ons, transe	ects, importar	nt featu	res, etc.	
		and another to				NOW DESCRIPTION OF PROPERTY OF	Mile restriction		
Hydrophytic Vegetati Hydric Soil Present?		Yes	No X	_ Is the San	mpled Area		Voc	No X	
Wetland Hydrology P		Yes	No X	F55/\$28/\$700/2011F2	ional Wetland		Yes	No X	-
(5)	in alternative procedure				VIII. 1.1	-			
	rmined that the anteced			etter than normal. Th	ie sample poin	it was located in a	manicure	ed lawn that had bee	n recently
	vegetation was still ab								
HYDROLOGY									
Walter Land	1 1 2					n 11-di-			
Wetland Hydrology		' I ak ask all that			5			imum of two required	<u>d)</u>
Surface Water (ninimum of one is requi		apply) Water-Stained Le	cause (RO)		Surface So Drainage P	and the same of the same		
High Water Tab			Aquatic Fauna (B			Moss Trim	wan - wall loo	Section 1	
	Saturation (A3) Mari Deposits (B1)			10000 OD#0	WITH A CONTROL OF THE				1
Water Marks (B1) Hydrogen Sulfide				2	Crayfish Bu		10		
Sediment Depo	20.60		THE REAL PROPERTY OF THE PARTY	pheres on Living Roo	ts (C3)	Saturation '	Visible on	Aerial Imagery (C9)	
Drift Deposits (B3) Presence of Red				luced Iron (C4)	# TO			Plants (D1)	
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic F									
Iron Deposits (E		and the same of th	Thin Muck Surfac		,	Shallow Aq	Annual Control		
The superior of the superior	ole on Aerial Imagery (E		Other (Explain in	Remarks)	į.	Microtopog			
Sparsely Veget	ated Concave Surface	(B8)				FAC-Neutra	al Test (Da	5)	
Field Observations:									
Surface Water Prese		No X	Depth (inches):						
Water Table Present	GMR/2	No X	Depth (inches):	-					99820
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hy	drology Present	? 1	Yes No	<u>x</u>
(includes capillary fring	nge) Data (stream gauge, me	onitorion well serie	I shotoe previou	is inspections) if ava	alable.				
Describe Necorded L	Ald (suedin gauge, in	Jilloring Well, acros	photos, previou	is mopeonoma, ii ara	liduic.				
Remarks:									
	nd hydrology was obse	erved at the sample	plot.						
SOURCE ACCOUNTS TO THE PARTY OF									
W.									
									11

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test Worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:
3		-		Total Number of Dominant Species Across All Strata 2 (B)
5.		(Percent of Dominant Species That Are
6.				OBL, FACW, or FAC: 50% (A/B)
7.				
		= Total Cover	9	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft.)				Total % Cover of: Multiply by:
1				OBL species 0 x1 = 0
2.			100	FACW species 0 x 2 = 0
3			2	FAC species 60 x 3 = 180
4				FACU species 45
5				UPL species 0 x 5 = 0
6				Column Totals:105 (A)360 (B)
7				Prevalence Index = B/A = 3.43
	-	= Total Cover		
Herb Stratum (Plot size: 5 ft.)				
Setaria pumila	60	Yes .	FAC	Hydrophytic Vegetation Indicators:
2. Festuca rubra	30	Yes	FACU	Rapid Test for Hydrophytic Vegetation
Taraxacum officinale	5	No	FACU	Dominance Test is >50%
4. Plantago major	5	No	FACU	Prevalence Index is ≤ 3.01
5. Trifolium hybridum	5	No	FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6				Problematic Hydrophytic Vegetation ¹ (Explain)
7				3 N N N N N N N N N N N N N N N N N N N
9.				¹ Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
10				
11				
12				Definitions of Vegetation Strata:
13 14				Tree - Woody plants 3 inches (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
15 16				Sapling/shrub - Woody plants less than 3 inches DBH and greater than 3.28 ft (1 m) tall.
17				Herb - All herbaceous (non-woody) plants, regardless of
18				size, and woody plants less than 3.28 ft tall.
19				Monday dags All woods when greates the a 0.00 ft is being
20				Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30 ft.)	105	= Total Cover		
2.				Hydrophytic
3.				Vegetation
4.				Present? Yes No X
		= Total Cover	•	
Remarks: (Include photo numbers here or on a separat	e sheet.)			
	determined th		e Rapid Test	, Dominance Test, and Prevalence Index. Based upon the
22				

(inches)		Color (moist)	% Type'	Loc²	Silt Loam	Remarks
					One count	
	-					
	2 2 			35 34		
	-					
		-		•): (————)		
		-				
	7.				ALL CONTRACTORS	
		-		400 00	()	
					¥	
				30 N		
	1 (SECOLO 1881	N NO SEE THE SEE AL			THE RESIDENCE OF	×
Type: C=Concentration, D=Depleti Hydric Soil Indicators:	on, RM=Rec	fuced Matrix, MS=Mask	ted Sand Grains, *L	ocation: PL=F	ore Lining, M=Matnx. Indicators for Problema	atic Hydric Soils*:
Histosol (A1)	16 <u>-</u>	Polyvalue Below S	Surface (S8) (LRR R	, MLRA		(LRR K, L, MLRA 149B)
Histic Epipedon (A2)	-	149B)	(S9) (LRR R, MLR	A 1/0D)		lox (A16) (LRR K, L, R) or Peat (S3) (LRR K, L, R)
Black Histic (A3) Hydrogen Sulfide (A4)	-		eral (F1) (LRR K, L		Dark Surface (S7	
Stratified Layers (A5)	-	Loamy Gleyed Ma		'	The second secon	Surface (S8) (LRR K, L)
Depleted Below Dark Surface	(A11)	Depleted Matrix (F			To the second contract of the second contract	e (S9) (LRR K, L)
Thick Dark Surface (A12)	_	Redox Dark Surfa	1177			Masses (F12) (LRR K, L, R) ain Soils (F19) (MLRA 136, 147)
Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	1	Depleted Dark Su Redox Depression				6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)	-		- (-)		Red Parent Mater	
Stripped Matrix (S6)					Very Shallow Dar	
Dark Surface (S7) (LRR R, LF	RR M, MLRA	(149B)			Other (Explain in	Remarks)
Indicators of hydrophytic vegetatio	n and wetlar	d hydrology must be pr	esent, unless distur	bed or problei	matic.	
Restrictive Layer (if observed):						
Type: Gravel						
Depth (inches):	3"			Hydric Sc	oil Present? Y	es NoX
Remarks: The soil at the sample plot does no luring the growing season in most y		eld indicators of hydric	soil, nor does it appe	ear to be inund	dated or saturated to the s	urface for long periods of time

Project/Site:	Town of Dunn Storag	e Lockers	City	/County:	Dunn/D	ane	Sampling Date:	9/6/2016
Applicant/Owner:	Adam Buhalog		2			State: WI	Sampling Point:	DP-03
Investigator(s):	Z. Waechter			Section.	Township, Range:		Sec 26, T6N, R10E	
Landform (hillslope, te	- Commission of the Commission	Should	ler	-	And the same of th	ive, convex, none):		
	1% Lat:	42.954270	Long		-89.280500	no contrato de la contrato del contrato de la contrato del contrato de la contrato del la contrato de la contrato del la contrato de la contr	Datum:	NAD83
			Long		-09.200000			
Soil Map Unit Name:	Ho - Houghton		^	742	N . W . W	NWI classi		none
	100	typical for this time of year		Yes		, explain in Remark	-15	100
Are Vegetation		_, or Hydrologys				nstances" present?	YesNo	x
Are Vegetation	, Soil	, or Hydrologyn	naturally problemati	ic?	(If needed, explain	any answers in Ren	narks.)	
SUMMARY OF	FINDINGS Attac	h site map showing	g sampling po	int location	ns, transects,	important featu	res, etc.	
Under abids Versitet	D10	Ver V Ne		la the Comm	Lad Assa			
Hydrophytic Vegetati		Yes X No		Is the Samp		Ver	N- V	
Hydric Soil Present? Wetland Hydrology F		Yes No		Statement Control	nand r nal Wetland Site ID	Yes	No X	-
- CANALOWS AND	DIASE MENTAL DE LA CONTRACTOR DE LA CONT			ii yes, optioi	iai vvetianu Site iD	-		
		es here or in a separate re lent precipitation condition		normal The	comple solutions I	neated in a maniaur	ad laws that had had	a recently
		le to be identified it should						
		al wetland requirements.						
indicate the sample p		5800; 110 2000 and 1200 (12000 12000 12000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 11000 1	entre entre en en entre en				No. 10 . Company of the control of t	
								1
HYDROLOGY								
Wetland Hydrology		ST WINDS AND ADDRESS OF THE				WE VISS TO SERVED TO SERVE	imum of two required)
		red; check all that apply)				Surface Soil Cracks		
Surface Water			Stained Leaves (B9	9)		Orainage Pattems (E		
— High Water Tab	50000113611111116		Fauna (B13)			Moss Trim Lines (B1	ESECT STREET	
Saturation (A3)			eposits (B15)					
	AND ADDRESS OF THE PARTY OF THE	en Sulfide Odor (C		Service Control of the Control of th	and the same of th			
Sediment Depo	550000 *CACO*//	d Rhizospheres on	ALL STREET, ST			Aerial Imagery (C9)		
Drift Deposits (E		ce of Reduced Iron Iron Reduction in			Stunted or Stressed			
Algal Mat or Cru Iron Deposits (E			uck Surface (C7)	Tilled Solls (Co		Geomorphic Position Shallow Aquitard (D3		
	ole on Aerial Imagery (B		Explain in Remarks	• • • • • • • • • • • • • • • • • • • •		dicrotopograpic Reli	-	
1	ated Concave Surface (ac Powers	Explain in Itemarks	,		AC-Neutral Test (D		
				r		AO-redual Test (D	<u> </u>	
Field Observations:								
Surface Water Prese	100		(inches):					
Water Table Present	? Yes		(inches):					
Saturation Present?	Yes	No X Depth	(inches):		Wetland Hydrolog	y Present?	Yes No	×
(includes capillary frin		0 4						
Describe Recorded D)ata (stream gauge, mo	onitoring well, aerial photo	s, previous inspect	ions), if availa	ble:			
Remarks:								
No evidence of wetla	nd hydrology was obse	rved at the sample plot.						
ľ								

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test Worksheet:
Fraxinus pennsylvanica 2.	25	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
3.		S 19		Total Number of Dominant Species
4.				Across All Strata3(B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)
6				OBE, FACW, OF FAC.
7	25	= Total Cover		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft.)	23	- Total Cover		Total % Cover of: Multiply by:
				OBL species 0 x1 = 0
2.		10 90		FACW species 25 x 2 = 50
3.				FAC species 30 x 3 = 90
4.				FACU species 81 x 4 = 324
5.		W	-	UPL species 0 x 5 = 0
6.		10 N	•	Column Totals: 136 (A) 464 (B)
7.		0 10		Prevalence Index = B/A = 3.41
**		= Total Cover		
Herb Stratum (Plot size: 5 ft.)				
1. Festuca rubra	70	Yes	FACU	Hydrophytic Vegetation Indicators:
Setaria pumila	30	Yes	FAC	Rapid Test for Hydrophytic Vegetation
Taraxacum officinale	5	No	FACU	X Dominance Test is >50%
4. Plantago major	2	No	FACU	Prevalence Index is ≤ 3.0 ¹
5. Cirsium arvense	2	No	FACU	Morphological Adaptations ¹ (Provide supporting data
6. Plantago lanceolata	2	No	FACU	in Remarks or on a separate sheet)
7.		Man and a series of the series		Problematic Hydrophytic Vegetation ¹ (Explain)
8.				¹ Indicators of hydric soil and wetland hydrology must be
9.		22 V		present, unless disturbed or problematic.
10		W		
11		Name of the last		
12.				Definitions of Vegetation Strata:
13.				Tree - Woody plants 3 inches (7.6 cm) or more in diameter
14		g		at breast height (DBH), regardless of height.
15 16		3 0		Sapling/shrub - Woody plants less than 3 inches DBH and greater than 3.28 ft (1 m) tall.
17		0.00		Herb - All herbaceous (non-woody) plants, regardless of
18		300 O		size, and woody plants less than 3.28 ft tall.
19				
20			XII OO O	Woody vines - All woody vines greater than 3.28 ft in height.
	111	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1		10	7.	
2		9 (9		Hydrophytic
3		1 8		Vegetation
4.				Present ? Yes x No
		= Total Cover	8	
Remarks: (Include photo numbers here or on a separa The presence of dominate hydrophytic vegetation was results of those test the vegetation at the sample plot is	determined t		e Rapid Tes	t, Dominance Test, and Prevalence Index. Based upon the
3				

Profile Descr	ription: (Describe to th Matrix	ie depth no	eeded to document the indicator or confir Redox Features	m the abser	nce of indicators.)	
(inches)	Color (moist)	%	Color (moist) % Type	Loc	Texture	Remarks
0-4"	10YR 3/2	100	COIDI (IIIDISI) // 13PC		Silt Loam	Nellians
				<u>_</u>		
				=		
		n, RM=Rec	duced Matrix, MS=Masked Sand Grains. ² Lo	cation: PL=P	Pore Lining, M=Matrix	
Hydric Soil In	ndicators:				Indicators for Prob	lematic Hydric Soils':
Histosol (A1) Histic Epipedon (A2) Black Histic (A3)			Polyvalue Below Surface (S8) (LRR R, 149B) Thin Dark Surface (S9) (LRR R, MLRA		Coast Prairie	A10) (LRR K, L, MLRA 149B) Redox (A16) (LRR K, L, R) Peat or Peat (S3) (LRR K, L, R)
	Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)					(S7) (LRR K, L, M)
	Stratified Layers (A5) Loamy Gleyed Matrix (F2)					low Surface (S8) (LRR K, L)
	d Below Dark Surface (A	A11) —	Depleted Matrix (F3) Redox Dark Surface (F6)			rface (S9) (LRR K, L)
	ark Surface (A12) Nucky Mineral (S1)	_	Redox Dark Surface (F6) Depleted Dark Surface (F7)			ese Masses (F12) (LRR K, L, R) oodplain Soils (F19) (MLRA 136, 147)
	Gleyed Matrix (S4)	_	Redox Depressions (F8)			(TA6) (MLRA 144A, 145, 149B)
	Redox (S5)	3				Material (F21)
Stripped	Matrix (S6) Inface (S7) (LRR R, LRR	₹ M, MLRA	\ 149B)		Very Shallow	Dark Surface (TF12) n in Remarks)
3Indicators of	hydrophytic vegetation a	and wetlan	nd hydrology must be present, unless disturbe	ed or problem	natic.	
	ayer (if observed):					
Type: G						
Depth (in	nches): <u>4</u> "			Hydric Soi	il Present?	Yes NoX
	e sample plot does not he wing season in most yea		eld indicators of hydric soil, nor does it appea	r to be inund	lated or saturated to the	he surface for long periods of time

Project/Site:	Town of Dunn Storage	Lockers		City/County:	0	Dunn/Dane		Sampling Date:	9/6/2016
Applicant/Owner:	Adam Buhalog					State:	WI	Sampling Point:	DP-04
Investigator(s):	Z. Waechter			Section	, Township, R			Sec 26, T6N, R10E	
Landform (hillslope, te	A co		Shoulder			(concave, conve)			
2000 - 10000000 - 1000	0% Lat:	42.9542	A CONTRACTOR DO	Long:		280500	i, none,	Datum:	NAD83
	Total value of the second	S-1141 A1	70	Long.	-03.2		WI classi	VACABANIECH III	E2Ka
Soil Map Unit Name:	Ho - Houghton				N- V			•	EZNA
SOUTH CONTROL OF THE STATE OF T	ic conditions on the site			Yes	_	(If no, explain in			
Are Vegetation			significantly o			l Circumstances"			X
Are Vegetation			naturally prof			explain any answe			
SUMMARY OF I	FINDINGS Attac	h site map sh	owing samplir	ng point locati	ons, transe	ects, importar	nt featu	ires, etc.	
Hydrophytic Vegetati	on Present?	Yes	No X	Is the San	npled Area				
Hydric Soil Present?		Yes	No X	within a W	and the same of th	,	Yes	No X	
Wetland Hydrology P	resent?	Yes	No X	If yes, opti	onal Wetland		-		-
Remarks: (Expla	in alternative procedure	s here or in a sep	arate report.)						
	rmined that the anteced			er than normal. Th	e soil at the sa	ample consisted e	ntirely of	gravel fill there the so	il is significantly
disturbed.									
									- 1
HYDROLOGY									
THE RESERVE OF THE PARTY OF THE	25 1000 100							LITTURE TO A CONTROL OF THE AMOUNT OF THE	
Wetland Hydrology								nimum of two required)
-	ninimum of one is requir					Surface So			
Surface Water (-	Water-Stained Lea	CO 00 10 10 10 10 10 10 10 10 10 10 10 10		Drainage P	111 VE 3	was a second	- 1
High Water Tab	le (A2)		Aquatic Fauna (B1			Moss Trim	The state of the s		
Saturation (A3)			Marl Deposits (B15	E) Titrano anacamona anti-		Dry-Season			
Water Marks (B	34.61		Hydrogen Sulfide C Oxidized Rhizosphe	SCORE LAND	te (C3)	Crayfish Bu		o) i Aerial Imagery (C9)	
Sediment Depo Drift Deposits (B	2 3	()	Presence of Reduc	_	is (U3)			Plants (D1)	
Algal Mat or Cru	No. of Contract of	-	Recent Iron Reduct	a car all all all and an are	CB)	Geomorphi		- Name of the Control	
Iron Deposits (B			Thin Muck Surface	William Company of the Company of th	00)	Shallow Aq			
The second second second	ole on Aerial Imagery (B		Other (Explain in Re	S. C.		Microtopog			-
	ated Concave Surface (FAC-Neutra		Service Control of the Control of th	
Field Observations:									
Surface Water Prese		No X	Depth (inches):						1
Water Table Present	E	No X	Depth (inches):						1
Saturation Present?	Yes	No X	Depth (inches):		Wetland Hy	drology Present	2	Yes No	×
(includes capillary frin	VAC-1487	- NO_X	Depai (mores).	N 70	litetiana ily	diology i resent		··· — ··· —	<u>~</u>
	Data (stream gauge, mo	nitoring well, aeria	photos, previous i	inspections), if ava	ilable:				
Security Manager Control of the Cont		15 (1990) (1994) (1990) (1990) (1990)							l
									I
Remarks:									
	nd hydrology was obser	ved at the sample	plot.						- 1
March Contractor (Contractor)									1
									- 1
									1

	014040000000000000000000000000000000000		VESCHOLONG	
Tana Chathar and a same	Absolute	Dominant	Indicator	Dominance Test Werksheet
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test Worksheet:
1. Juglans nigra	15	Yes .	FACU	Number of Dominant Species That Are
2. Acer negundo	15	Yes	FAC	OBL, FACW, or FAC: 2 (A)
3		0		Total Number of Dominant Species
4.		(Across All Strata 8 (B)
5				Percent of Dominant Species That Are
6				OBL, FACW, or FAC: <u>25%</u> (A/B)
7				
min door control of the	30	= Total Cover		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft.)				Total % Cover of: Multiply by:
Lonicera tatarica	20	Yes	FACU	OBL species0 x1 =0
2. Fraxinus pennsylvanica	10	Yes	FACW	FACW species 10
3.				FAC species 20 x 3 = 60
4				FACU species65 x 4 =260
5.				UPL species 20 x 5 = 100
6.		N W		Column Totals: 115 (A) 440 (B)
7.		0.30		Prevalence Index = B/A = 3.83
	30	= Total Cover		
Herb Stratum (Plot size: 5 ft.)				
Glechoma hederacea	20	Yes	FACU	Hydrophytic Vegetation Indicators:
2. Torilis japonica	10	Yes	UPL	Rapid Test for Hydrophytic Vegetation
3. Bromus inermis	10	Yes	UPL	Dominance Test is >50%
4. Alliaria petiolata	5	No .	FACU	Prevalence Index is ≤ 3.0 ¹
5. Acer negundo	5	No	FAC	Morphological Adaptations ¹ (Provide supporting data
6.				in Remarks or on a separate sheet)
7.				Problematic Hydrophytic Vegetation ¹ (Explain)
8.		O		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
9.		(1)		present, unless disturbed or problematic.
10		PF 23		
11		P4		Definitions of Vegetation Strata:
12.				The second secon
13.		(1		Tree - Woody plants 3 inches (7.6 cm) or more in diameter
14		9		at breast height (DBH), regardless of height.
15				Sapling/shrub - Woody plants less than 3 inches DBH and
16		W		greater than 3.28 ft (1 m) tall.
17		Name of the State		Herb - All herbaceous (non-woody) plants, regardless of
18				size, and woody plants less than 3.28 ft tall.
19				1000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
20				Woody vines - All woody vines greater than 3.28 ft in height.
NAME OF THE PARTY	50	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)		350720	EXCHANGE AND THE	
Parthenocissus quinquefolia	5	Yes	FACU	
2.				Hydrophytic
3		· · · · · · · · · · · · · · · · · · ·		Vegetation
4				Present? Yes No X
	5	= Total Cover		
Remarks: (Include photo numbers here or on a separa	ite sheet.)			
The presence of dominate hydrophytic vegetation was	determined t	hrough use of the	e Rapid Tes	t, Dominance Test, and Prevalence Index. Based upon the
results of those test the vegetation at the sample plot i				

Sampling Point: DP-04

Depth Matrix	Redox Features						
(inches) Color (moist) %	Color (moist) % Type L	oc ² Texture	Remarks				
0-6"			Gravel Fill				
	· —— · — · — ·						
Type: C=Concentration, D=Depletion, RM=R ydric Soil Indicators:	educed Matrix, MS=Masked Sand Grains. ² Location	n: PL=Pore Lining, M=Matrix	lematic Hydric Soils*:				
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R, MLR.		A10) (LRR K, L, MLRA 149B)				
Histic Epipedon (A2) Black Histic (A3)	149B) Thin Dark Surface (S9) (LRR R, MLRA 149B	Coast Prairie Redox (A16) (LRR K, L, R)					
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K, L)		Dark Surface (S7) (LRR K, L, M)				
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)		Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)				
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)		ese Masses (F12) (LRR K, L, R)				
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)		nt Floodplain Soils (F19) (MLRA 136, 147)				
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Redox Depressions (F8)		c (TA6) (MLRA 144A, 145, 149B) Material (F21)				
Stripped Matrix (S6)	2A 440D)	Very Shallow	Dark Surface (TF12)				
Dark Surface (S7) (LRR R, LRR M, MLI	(A 149B)	Other (Expla	in in Remarks)				
indicators of hydrophytic vegetation and wetl	and hydrology must be present, unless disturbed or	problematic.					
estrictive Layer (if observed):							
Type: Gravel							
Depth (inches): 6"	Нус	dric Soil Present?	Yes NoX				
emarks: ne soil at the sample plot does not have any uring the growing season in most years. The	field indicators of hydric soil, nor does it appear to be soil and sample consited entirely of gravel fill.	e inundated or saturated to t	he surface for long periods of time				

Project/Site:	Town of Dunn Storage	e Lockers		City/County:	Dun	n/Dane	Sampling Date:	9/6/2016
Applicant/Owner:	Adam Buhalog			• • • • • • • • • • • • • • • • • • •		State: WI	Sampling Point:	DP-05
Investigator(s):	Z. Waechter			Section,	Township, Rang	 je:	Sec 26, T6N, R10E	
Landform (hillslope, te	errace, etc.):		Foeslope			oncave, convex, nor	ne): concave	
	0% Lat:	42.54150	00	Long:	-89.280	800	Datum:	NAD83
Soil Map Unit Name:	Ho - Houghton	Muck				NWI d	assification:	E2Ka
Are climatic / hydrolog	gic conditions on the site	typical for this time	e of year?	Yes	No X (If no, explain in Ren	narks.)	
Are Vegetation	, Soil	, or Hydrology	significantly	disturbed?	Are "Normal Ci	rcumstances" prese	ent? Yes X N	0
Are Vegetation		, or Hydrology		oblematic?	(If needed, exp	lain any answers in	Remarks.)	
	FINDINGS Attac				ons, transect	s. important fe	atures, etc.	
		No.						
Hydrophytic Vegetat		Yes X	No	· Commercial and	pled Area	Van	V Na	
Hydric Soil Present? Wetland Hydrology F		Yes X Yes X	No No	within a W	onal Wetland Site		X No	=
	ain alternative procedure			. Il yes, opik	mai vvetianu one			
	rmined that the anteced		the state of the second state of the second	tter than normal.				
NAMES OF STREET								
HYDROLOGY								
[wa					0.		(minimum of two required	4)
Wetland Hydrology	ninimum of one is requir	red: check all that a	nnh)		36	Surface Soil Cra		<u>")</u>
X Surface Water	rener 100		Nater-Stained Le	aves (B9)		Drainage Pattern		
X High Water Tat			Aquatic Fauna (B		-	Moss Trim Lines	THE PARTY OF THE P	
X Saturation (A3)			Marl Deposits (B1	5)		Dry-Season Wa	er Table (C2)	
Water Marks (B	31)		lydrogen Sulfide	Odor (C1)	<u>-</u>	Crayfish Burrow	s (C8)	
Sediment Depo	osits (B2)		Oxidized Rhizospl	heres on Living Root	s (C3)	Saturation Visibl	e on Aerial Imagery (C9)	
Drift Deposits (I			Presence of Redu			Stunted or Stres	MIND TO THE RESERVE OF THE PARTY OF THE PART	
Algal Mat or Cri		· ·		ction in Tilled Soils (0	26)	Geomorphic Pos	The state of the s	
Iron Deposits (E	The same of the sa	rener	Thin Muck Surface	The state of the s	-	Shallow Aquitare	. All and the accounts	
The state of the s	ble on Aerial Imagery (B lated Concave Surface (Other (Explain in F	(emarks)	- 3	Microtopograpic FAC-Neutral Tes	CALDA DA CONTRADO CARDO	
WA 1990 990		(00)					x (50)	
Field Observations Surface Water Prese		No	Depth (inches):	6"				
Water Table Present		No No	Depth (inches):	surface				
Saturation Present?	Yes X	No X	Depth (inches):	surface	Wetland Hydro	ology Present?	Yes X No	
(includes capillary fri			Dopai (moneo).	0011400				
	Data (stream gauge, mo	onitoring well, aeria	photos, previous	s inspections), if avai	lable:			
Remarks:								
The presence of 3 pr	rimary and 2 secondary	indicators at the sa	ample plot provide	es evidence of wetlar	nd hydrology.			
								1

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test Worksheet:
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.		9		Total Number of Dominant Species Across All Strata (B)
5.				Percent of Dominant Species That Are
7.		-	-	OBL, FACW, or FAC:
		= Total Cover		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft.)				Total % Cover of: Multiply by:
1,		·		OBL species55
2				FACW species 30
3.				FAC species0 x3 =0
4.		E 23		FACU species0 x4 =0
5		O		UPL species 0 x 5 = 0
6.		D 10		Column Totals: 85 (A) 115 (B)
7		24		Prevalence Index = B/A = 1.35
Pursual Maria Maria II No. 1880 II No.		= Total Cover		
Herb Stratum (Plot size: 5 ft.)	8451		200	Hudraubudia Varratatian Indicatores
Typha angustifolia	40	Yes_	OBL	Hydrophytic Vegetation Indicators:
2. Phalaris arundinacea	30	Yes	FACW	X Rapid Test for Hydrophytic Vegetation
3. Carex lacustris	10	No No	OBL	X Dominance Test is >50% X Prevalence Index is ≤ 3.0¹
4. Persicaria amphibia	5	No	OBL	- B
5.		-		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6.				Problematic Hydrophytic Vegetation ¹ (Explain)
7.		(8-1)		A 07 10 300 10 300
9.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
10.		1		
11	V	(<u>) </u>		
12.				Definitions of Vegetation Strata:
13		P		Tree - Woody plants 3 inches (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
15				Sapling/shrub - Woody plants less than 3 inches DBH and
16		89 O	-	greater than 3.28 ft (1 m) tall.
17				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
19				Woodh vines All woods vines greater than 2.00 ft is bright
20		= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: 30 ft.)	85	- Total Cover		-
13		10-		Hydrophytic
**************************************	()			Vegetation
4.	*			Present? Yes x No
* 1		= Total Cover		
	determined t		e Rapid Tes	t, Dominance Test, and Prevalence Index. Based upon the
results of those test the vegetation at the sample plot is	s hydrophytic	*		

Depth Matrix Redox Features
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix.
14-18" 10YR 3/1 95 10YR 5/8 5 C M Silt Loamy Sand
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Solls*: Indicators of Hydrophysic Lining, M=Matrix, L,
Hydric Soll Indicators: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 2 cm Muck (A10) (LRR K, L, MLRA 149B) X Histic Epipedon (A2) 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Dark Surface (S7) (LRR R, LRR M, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:
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Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thic Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, LRR M, MLRA 149B) Slindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:
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Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (S9) Thin Dark Surface (S1) The Dark Surface (
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 136, 147) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, LRR M, MLRA 149B) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:
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Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, LRR M, MLRA 149B) Slindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:
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Restrictive Layer (if observed): Type:
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Type:
Depth (inches): Hydric Soil Present? Yes X No Remarks:
Remarks:
OF

Soil Map Unit Name: Are climatic / hydrologi Are Vegetation Are Vegetation	0% Lat: Ho - Houghtor ic conditions on the site , Soil	42.9541 n Muck e typical for this tim , or Hydrology , or Hydrology	e of year? significantly naturally pro	Long: Yes disturbed? oblematic?	No X (If Are "Normal Circ (If needed, expla	ncave, convex, none): 00 NWI class no, explain in Remark curnstances" presentatin any answers in Re	Datum: Sification: ks.) Yes X Normarks.)	9/6/2016 DP-06 NAD83 none
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				within a V If yes, opti	npled Area Vetland? ional Wetland Site I	Yes	No X	-
HYDROLOGY								
Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (B Algal Mat or Cru Iron Deposits (B	ninimum of one is requir (A1) de (A2) 1) sits (B2) ast (B4)	7)	Water-Stained Lea Aquatic Fauna (B1 Marl Deposits (B1 Hydrogen Sulfide (Oxidized Rhizosph Presence of Redu	13) 5) Odor (C1) neres on Living Roo ced Iron (C4) ction in Tilled Soils (ts (C3)	Surface Soil Cracks Drainage Patterns (Moss Trim Lines (B Dry-Season Water Crayfish Burrows (C	(B10) (B16) Table (C2) (C8) In Aerial Imagery (C9) Id Plants (D1) In (D2) (C3) (C4) (C5) (C6) (C6) (C7) (C7) (C7) (C7) (C7) (C7) (C7) (C7)
Field Observations: Surface Water Present Water Table Present? Saturation Present? (includes capillary frin Describe Recorded D	nt? Yes ? Yes	No X No X No X	Depth (inches): Depth (inches): Depth (inches):	inspections), if ava	Wetland Hydrold	ogy Present?	Yes No	x
Remarks: No evidence of wetland	nd hydrology was obse	rved at the sample	p plot.					

or
Dominance Test Worksheet:
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
Total Number of Dominant Species Across All Strata 8 (B)
-
Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
V OBL species 0 x 1 = 0
FACW species 50 x 2 = 100
FAC species 25 x 3 = 75
FACU species 45 x 4 = 180
UPL species 5 x 5 = 25
Column Totals: 125 (A) 380 (B)
Prevalence Index = B/A = 3.04
Hydrophytic Vegetation Indicators:
Rapid Test for Hydrophytic Vegetation
Dominance Test is >50%
Prevalence Index is ≤ 3.0¹
Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
Indicators of hydric soil and wetland hydrology must be
present, unless disturbed or problematic.
_
Definitions of Vegetation Strata:
Tree - Woody plants 3 inches (7.6 cm) or more in diameter
at breast height (DBH), regardless of height.
Sapling/shrub - Woody plants less than 3 inches DBH and
greater than 3.28 ft (1 m) tall.
Herb - All herbaceous (non-woody) plants, regardless of
size, and woody plants less than 3.28 ft tall.
Woody vines - All woody vines greater than 3.28 ft in height
Hydrophytic
Vegetation
Present? Yes No X
Test, Dominance Test, and Prevalence Index. Based upon the
id 1

Depth Matrix	Redox Features			
(inches) Color (moist) %	Color (moist) % Type	e' Loc²	Texture	Remarks
0-5" 10YR 3/3			Loam	
			-	
¹ Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=P	ore Lining, M=Matrix.	
Hydric Soil Indicators:		DE THEFAN	Indicators for Problem	and the second s
Histosol (A1) Histic Epipedon (A2)	Polyvalue Below Surface (S8) (LRR 149B)	R, MLRA) (LRR K, L, MLRA 149B) edox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surface (S9) (LRR R, ML	RA 149B)		at or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) (LRR K,	L)	Dark Surface (S	7) (LRR K, L, M)
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)			Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)			ce (S9) (LRR K, L)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1)	Redox Dark Surface (F6) Depleted Dark Surface (F7)			Masses (F12) (LRR K, L, R) plain Soils (F19) (MLRA 136, 147)
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)		Andrews was a series of the se	A6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)			Red Parent Mate	erial (F21)
Stripped Matrix (S6)				ark Surface (TF12)
Dark Surface (S7) (LRR R, LRR M, ML	RA 149B)		Other (Explain in	n Remarks)
3Indicators of hydrophytic vegetation and wel	dand hydrology must be present, unless dist	urbed or problem	natic.	
Restrictive Layer (if observed):				
Type: Gravel				
0878-011 MARIE 1		DEF NEED TO	II Dropont2	Van Na V
Depth (inches): 5"		Hydric Soi	ii Fresentr	Yes NoX
Depth (inches): 5" Remarks: The soil at the sample plot does not have any	r field indicators of hydric soil, nor does it ap			
Depth (inches): 5" Remarks: The soil at the sample plot does not have any	field indicators of hydric soil, nor does it ap			
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Project/Site:	Town of Dunn Storage	e Lockers	City/County:	Dunn/D	ane	Sampling Date:	9/6/2016
Applicant/Owner:	Adam Buhalog				State: WI	Sampling Point:	DP-07
Investigator(s):	Z. Waechter		Section	, Township, Range:		Sec 26, T6N, R10E	
Landform (hillslope, te		Toeslop			ve, convex, none):		
Carron Control Control Control Control Control	0% Lat:	42.541400	Long:	-89.280100	- W	Datum:	NAD83
	Ho - Houghton		Long.	-00.200100	NWI class		none
Soil Map Unit Name:			O Voc	No V /If no	, explain in Remark		none
		typical for this time of yea	AND THE RESERVE		Self Mars Indian	The second of th	•
Are Vegetation			gnificantly disturbed?	Are "Normal Circur			
Are Vegetation	All the second s	, or Hydrologyna		(If needed, explain			
SUMMARY OF I	FINDINGS Attac	h site map showing	sampling point locati	ons, transects, i	mportant featu	ires, etc.	
Hydrophytic Vegetati	ion Present?	Yes X No	Is the Sai	npled Area			
Hydric Soil Present?		Yes X No	within a V	DO - 100.11 (1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 - 1.11 -	Yes 2	K No	
Wetland Hydrology P	resent?	Yes X No	If yes, opt	ional Wetland Site ID:	·		
Remarks: (Expla	in alternative procedure	s here or in a separate rep	port.)				
			were wetter than normal.				
1							
1							
HYDROLOGY							
					y - 2 tu		
Wetland Hydrology						nimum of two required	1)
-		ed; check all that apply)	taland Language (DO)		Surface Soil Cracks	A Company of the Comp	
X Surface Water			tained Leaves (B9)	-	Orainage Patterns (
X High Water Tab		The state of the s	Fauna (B13) posits (B15)		Moss Trim Lines (B Dry-Season Water	and the second s	
X Saturation (A3)		The second secon	n Sulfide Odor (C1)		Crayfish Burrows (C	Description of the second of t	
Water Marks (B Sediment Depo	AND INCOME.	0	Rhizospheres on Living Roo			n Aerial Imagery (C9)	
Drift Deposits (E	X31130-00-00-00-00-00-00-00-00-00-00-00-00-0		e of Reduced Iron (C4)		Stunted or Stressed		
Algal Mat or Cru		(To the state of	ron Reduction in Tilled Soils		Geomorphic Positio		
Iron Deposits (E	SANGE AND LAND	The state of the s	ck Surface (C7)		Shallow Aquitard (D		
	ole on Aerial Imagery (B	()	xplain in Remarks)		/licrotopograpic Rel	3.6.3	
	ated Concave Surface (A Second	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	AC-Neutral Test (D		
he was some and some some some	ARTHROSON - ARTHROSON POR BETYPOLICE TO CHOOL DOCUMENTS 1 F	TOTAL		T	•	×.	
Field Observations: Surface Water Prese		No Depth	(inches): 4"				
Water Table Present		•//	(inches): surface				
Saturation Present?	Yes X		(inches): surface	Wetland Hydrolog	v Drosont?	Yes X No	
(includes capillary frin		_ No _ X Depui	(mories). Sunace	Welland Hydrolog	y Fleseitt	163 _X NO_	
		nitoring well, aerial photos	, previous inspections), if ava	ilable:			
	, , , , , , , , , , , , , , , , , , , ,						
Remarks:							
Diophinaticono.	imary and 2 secondary	indicators at the sample p	ot provides evidence of wetle	and hydrology.			
		And the second of the second o	The state of the s				

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30 ft.)	% Cover	Species?	Status	Dominance Test Worksheet:
1. Acer negundo	25	Yes	FAC	Number of Dominant Species That Are
	10	Yes .	FACW	OBL, FACW, or FAC: 4 (A)
3				Total Number of Dominant Species
4				Across All Strata4(B)
5				Percent of Dominant Species That Are
6.				OBL, FACW, or FAC:(A/B)
7	35	= Total Cover	-	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 ft.)		- Total Cover		Total % Cover of: Multiply by:
1.				OBL species 5 x1 = 5
2.			-	FACW species 29 x 2 = 58
3.				FAC species 25 x 3 = 75
4.				FACU species 0 x 4 = 0
5.				UPL species 0 x 5 = 0
6.				Column Totals: 59 (A) 138 (B)
7.				Prevalence Index = B/A = 2.34
		= Total Cover		
Herb Stratum (Plot size: 5 ft.)				
Phalaris arundinacea	15	Yes	FACW	Hydrophytic Vegetation Indicators:
2. Lemna minor	5	Yes	OBL	Rapid Test for Hydrophytic Vegetation
3. Impatiens capensis	2	No	FACW	X Dominance Test is >50%
4. Fraxinus pennsylvanica	2	No	FACW	X Prevalence Index is ≤ 3.01
5				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
6				
7				Problematic Hydrophytic Vegetation¹ (Explain)
8		——		¹ Indicators of hydric soil and wetland hydrology must be
9				present, unless disturbed or problematic.
10.				
11.				Definitions of Vegetation Strata:
12.				
14				Tree - Woody plants 3 inches (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
15				Sapling/shrub - Woody plants less than 3 inches DBH and
16				greater than 3.28 ft (1 m) tall.
17				Herb - All herbaceous (non-woody) plants, regardless of
18				size, and woody plants less than 3.28 ft tall.
19				
20				Woody vines - All woody vines greater than 3.28 ft in height.
\$-	24	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1.				200 Mg
2				Hydrophytic
3				Vegetation No. 11
4.	X			Present ? Yes x No No
(-		= Total Cover		
Remarks: (Include photo numbers here or on a separate The presence of dominate hydrophytic vegetation was or results of those test the vegetation at the sample plot is	determined t	And the contract of the contra	e Rapid Test	t, Dominance Test, and Prevalence Index. Based upon the

Profile Descr	iption: (Describe to th	he depth n	eeded to document th	e indicato	r or confire	n the abse	nce of indicators.)			
Depth	Matrix (Color (maint)	%		ox Featu %		Loc²	Texture	D	emarks	
(inches) 0-12"	Color (moist) 10YR 2/2	100	Color (moist)		Type'	LOC	Mucky Loam	IX.	emarks	
12-24"	101R 2/2	100		A		1 	Silty Clay		-	
12-24	1011/3/1	_100_				-	Silty Clay			
	S						·			
-	1.00									
				-		(# · · · · · · · · · · · · · · · · · · ·			
	4				- 3		() () () () () () () () () ()			
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·	Views and the second					-	<u> </u>		`	
	St.				-					
(X	77					-	0 >			
	-						-			
1	· · · · · · · · · · · · · · · · · · ·				. 2.					
Hydric Soil In	centration, D=Depletiondicators:	n, RM=Red	uced matrix, MS=Mask	ed Sand G	srains. Loc	ation: PL=	Indicators for Probl	ematic Hydric	Soils':	
Histosol	(A1) pipedon (A2)	-	Polyvalue Below S	Surface (S8	3) (LRR R, I	MLRA		.10) (LRR K, L, Redox (A16) (L		
	istic (A3)	_	Thin Dark Surface	(S9) (LRF	R, MLRA	149B)	5 cm Mucky F	Peat or Peat (S3	3) (LRR K, L, R)	
	n Sulfide (A4) d Layers (A5)	-	X Loamy Mucky Min Loamy Gleyed Ma		RR K, L)			(S7) (LRR K, L ow Surface (S8	8 2	
(0)	d Below Dark Surface ((A11) _	Depleted Matrix (F			Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L)				
	ark Surface (A12) Mucky Mineral (S1)	_	Redox Dark Surfa Depleted Dark Su						2) (LRR K, L, R) 19) (MLRA 136, 147)	
NI	Gleyed Matrix (S4)	_	Redox Depression						144A, 145, 149B)	
	tedox (S5) Matrix (S6)						Red Parent M	laterial (F21) Dark Surface (*	TE 12)	
	rface (S7) (LRR R, LR	R M, MLRA	(149B)					n in Remarks)	11 12)	
3Indicators of	hydrophytic vegetation	and wetlan	d hydrology must be pr	esent, unle	ess disturbe	d or proble	matic.			
	ayer (if observed):									
Туре:										
Depth (ii	nches):					Hydric Sc	oil Present?	Yes X	No	
Remarks:	8									
The soil at the	sample plot meets the	F1 Indicate	or described in the NRC	CS publicat	ion Field In	dicators of	Hydric Soil in the Unite	d States - versi	on 7.0.	

Town of Dunn Storage Lockers

APPENDIX

B

SITE PHOTOPGRAPHS



Photograph DP-01; Photograph facing north.



Photograph DP-02; Photograph facing north.



Photograph DP-03; Photograph facing east.



Photograph DP-04; Photograph facing southwest.



Photograph DP-05; Photograph facing south.



Photograph DP-06; Photograph facing south.





Photograph DP-07; Photograph facing south.



Photograph PP-01; Photograph facing north.



Photograph PP-01; Photograph facing east.



Photograph PP-01; Photograph facing south.





Photograph PP-02; Photograph facing northeast.

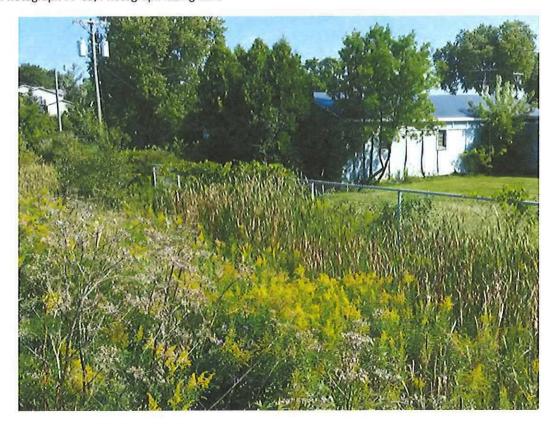


Photograph PP-02; Photograph facing southwest.





Photograph PP-03; Photograph facing east.



Photograph PP-03; Photograph facing northeast.



Photograph PP-03; Photograph facing southeast.

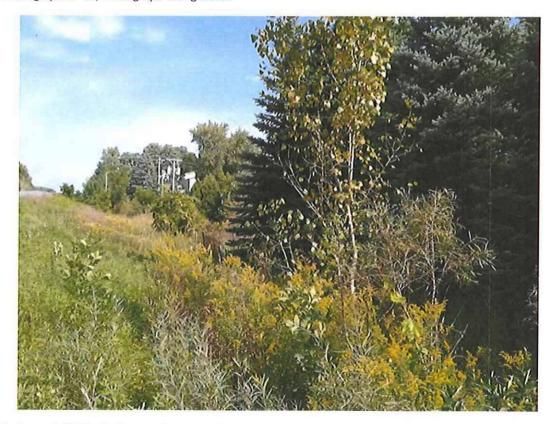


Photograph PP-04; Photograph facing northwest.





Photograph PP-05; Photograph facing south.

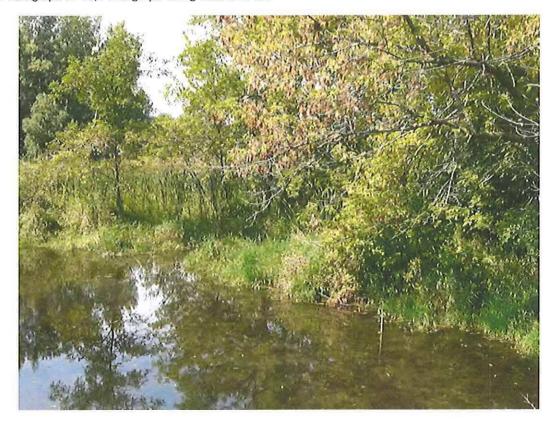


Photograph PP-06; Photograph facing north of W-01.





Photograph PP-07; Photograph facing west of W-01.



Photograph PP-08; Photograph facing east of W-01.



Photograph PP-09; Photograph facing south.