WETLAND DELINEATION REPORT

Gateway Business Park
City of Beloit, Rock County, WI

October 12, 2012

Delineation #17.2012



Alice Thompson
Thompson and Associates Wetland Services, LLC
1514 Menomonee Ave.
South Milwaukee, WI 53172
(414) 571-8383
FAX (414) 571-8384



Gateway Business Park, City of Beloit, Rock County, WI Wetland Delineation Report 10/12/12

- 1 Introduction
- 2. Site Description
- 3. Resource Review
- 4. Results and Conclusion

Appendices

1. INTRODUCTION

The Gateway Business Park study area was delineated by Alice Thompson of Thompson and Associates Wetland Services at the request of the Andrew Jahnke, City of Beloit. The site consists of 155 acres of land, located in Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

This delineation was conducted on 10/12/12. Precipitation maps from the National Weather Service indicate that average precipitation 90 days prior to 10/17/12 was 4 to 6 inches below normal (see Appendix 1, Figure 2).

I waited to do the delineation until the corn was harvested as it would have been too difficult to view the landforms and look for subtle variation with a tall corn crop.

A wetland delineation of "Gateway Project", Beloit was done by me in 2001. At that time the project area was much larger than the current project area. The wetland areas identified in the 2001 delineation are outside the current project area (01-04841-DJP).

2. SITE DESCRIPTION

The study area consists primarily of farmland, which was planted to corn in 2012 with hedgerows growing along the parcel boundaries and between fields. Colley Road runs laterally through the site, and an intermittent drainage way passes through the site's southeast corner, and another in the site's northwest corner along Gateway Blvd. A rectangular piece of land is disturbed on the north side of Colley Road. Upon review this is an active spoils pile.

The site is bordered to the west and north by Gateway Boulevard and to the east, south, and west by farmland.

3. RESOURCE REVIEW

The **USGS Topographic Map** (Appendix 1, Figure 1) indicates that the site is hilly, with elevations ranging between 830 feet above sea level to 900 feet above sea level. In the northeastern corner of the site, the land slopes upward from 850 feet above sea level to 900 feet above sea level. The elevation dips to 830 feet above sea level in the

southeastern corner of the site. The southern half of the site features a hill that reaches 890 feet above sea level

According to the **NRCS Soil Survey** (Appendix 1, Figure 3), the site is comprised of seven upland soils and one partially hydric soil. The upland soils include Durand silt loam, Griswold loam, Ogle silt loam, Plano silt loam, Ringwood silt loam, Rockton loam, and Rotamer loam. The partially hydric soil is Wauconda silt loam.

The **Wisconsin Wetlands Inventory** (Appendix 1, Figure 4) shows no mapped wetlands within the site.

The NRCS Wetland Inventory (Appendix 1, Figure 5) shows one area of Prior Converted Wetland along the western edge of the site, south of Colley Road. We attempted to look at FSA crop history slides for the site, however the slides are in Madison being digitized. A set of maps for 2008 and 2010 were sent to us, but they are so grainy that crop health/stress is not apparent.

Historical Aerial Photographs (Appendix 1, Figure 6) indicate that development of the site and surrounding area has gradually increased in the past 12 years. The 2000 aerial photograph shows the property and vicinity dominated by farmland, with few roads or buildings. Between 2000 and 2006, Gateway Boulevard was constructed along the western border of the site and two commercial buildings were built along that road. During this time a rectangular area in the northern half of the site was cleared, perhaps to establish foundations for a building. Between 2006 and 2010, another commercial building was constructed along Gateway Road, just south of the site. Little change is visible on the property between 2006 and 2010.

4. RESULTS AND CONCLUSION

- One maintained road side ditch on the northwest side of the site, adjacent Gateway Blvd was in the vicinity of a mapped intermittent drainageway (Figure 8). The vegetation consisted of mowed reed canary grass and red footed spike rush. The soils were upland, however hydrology was met by oxidized rhisopheres in the upper 8 inches and a positive FAC neutral test. Water flows from the north towards a large culvert that carries water off site to the west under Gateway Blvd (see photo pages 4 and 5).
- I spoke on the phone with Stacey Marshall, US Army Corps of Engineers and she suggested I flag it in case she determined the Corps had jurisdiction over it. The wetland flags extend within the maintained ditch from the large culvert to the point where reed canary grass is replaced by common brome grass. The WI DNR has a wetland exemption for maintained roadside ditches.
- The ditch area to the south of this large culvert also receives water from three culverts that are carrying stormwater off the drive (Figure 8). Because that portion of the ditch is not mapped as an intermittent stream I did not stake it.
- The mapped intermittent drainageway on the southeast corner of the site was not

staked as there were upland soils and vegetation throughout, no waterway, drainageway or indication that water ponded in the woodlot (Data points 9 and 10). There is a grassed (common brome) drainageway south of the site boundary in the adjacent alfalfa field. The drainageway is wide and slopes south (photo page 6 and 7).

- The final area of possible wetland conditions is the area of Prior Converted farmland on the west side in the vicinity of data points 11 and 12. There were upland soils, uniform corn stalks and no indication of wetland conditions (photo page 6).
- With the exception of the roadside ditch area staked on the northwest side of the site the entire project area of 155 acres is **Upland**. The soils are brown 10YR 3/2 or 10YR 4/3 silt loams throughout. Although I was not able to view the FSA crop history slides as they are currently unavailable, the unequivocal upland soils, high landscape positions and uniform corn stubble did not indicate any concern that wetlands could revert in these areas once agriculture ceased.

The wetland line staked in the field by Thompson and Associates Wetland Services is an estimate of the wetland boundary and the opinions presented in this report are best estimates of the conditions at the time the wetlands were delineated. The final decision on wetland boundaries and connectiveness rests with the U.S. Army Corps of Engineers and, in some cases, the Wisconsin Department of Natural Resources, or a local unit of government. As a result, there may be adjustments to boundaries based upon review of a regulatory agency.

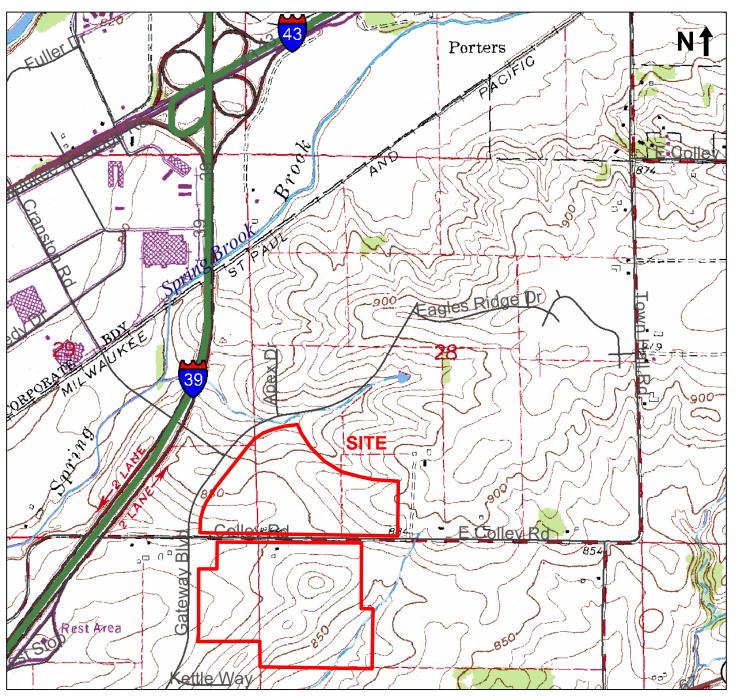
Alice Thompson, lead delineator, is an Assured Delineator as explained at the Wisconsin Department of Natural Resources' (the "WDNR") web site, at http://www.dnr.state.wi.us/org/water/fhp/wetlands/boundaries.html. The WDNR considers Thompson's wetland delineation work to be "Assured" for purposes of Wisconsin waterway and wetland permits and shoreland-wetland zoning, such that Thompson's clients do not need to wait for concurrence letters from the WDNR before relying on such delineations and may expect that wetland delineation issues should not be the cause of delays in state waterway and wetland permit decisions.

The completion of an Assured Wetland Delineation does not change decisions about wetland fill and wetland fill that may result from incorrectly determined boundaries must still be remedied. An Assured Wetland Delineation is not a guarantee of accuracy or relief from landowner responsibility in the event an error occurs and wetlands are filled. As such, there may be risks related to relying on an Assured Wetland Delineation without obtaining the WDNR's prior authorization to fill wetlands.

Any activity in the delineated wetland may require U.S. Army Corps of Engineers permits and State of Wisconsin Department of Natural Resources Water Quality Certification, and local government permits. The final authority of wetland delineation and protection resides with these agencies. If the Client proceeds to change, modify or utilize the property in question without obtaining authorization from the appropriate regulatory agency, it will be done at the Client's own risk and Thompson and Associates Wetland Services shall not be responsible or liable for any resulting damages.

APPENDICES:

- 1. Figures
 - Figure 1. Site Location and Topographic Map
 - Figure 2. NWS Departure from Normal Precipitation Maps
 - Figure 3. Soil Map
 - Figure 4. Wisconsin Wetland Inventory
 - Figure 5. NRCS Wetland Inventory
 - Figure 6. Historical Aerial Photographs
- 2. Field Data and Results
 - Figure 7. Data Point Locations
 - Figure 8. Close-up of Wetland Drainage Way
 - Wetland Informational Sheet with Corresponding Data Sheets
- 3. Routine Methodology for Delineating Wetlands
- 4. Investigator Biographies

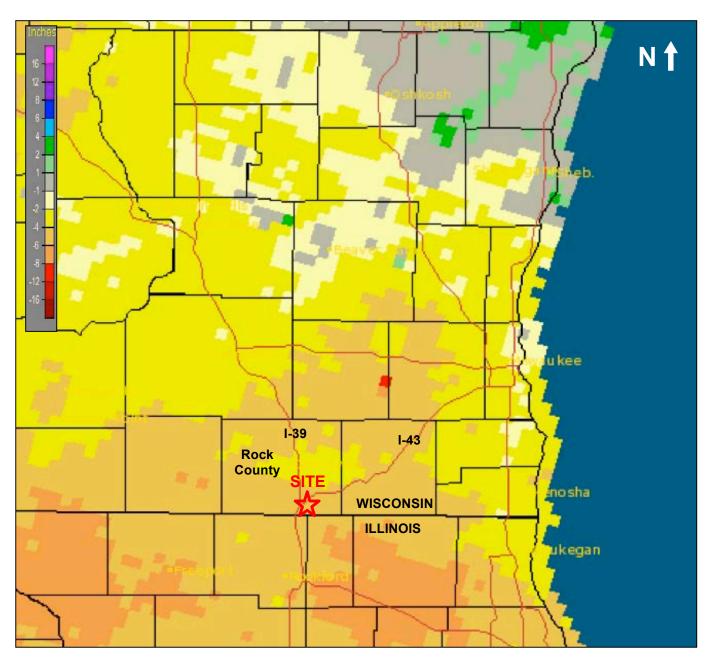


Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 1: Site Location and Topographic Map

Source: Wisconsin DNR Surface Water Data Viewer





Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 2: 90-day Departure from **Normal Precipitation**

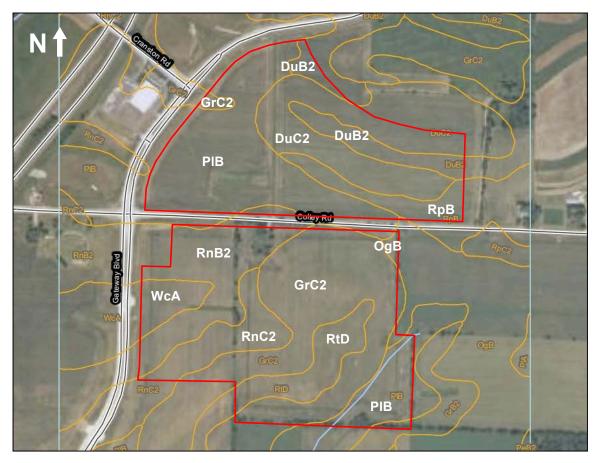
Calculated from 10/17/12

Milwaukee/Sullivan Weather Forecast Office

Source:

Advanced Hydrologic Prediction Service Website, National Weather Service





Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 3: NRCS Soil Survey

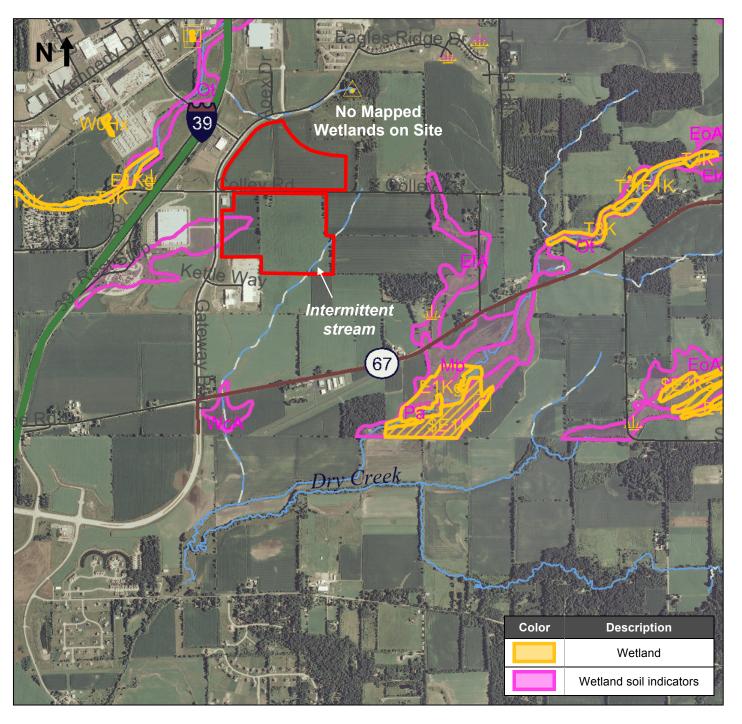
2010 Aerial Photograph

Source: USDA National Resource Conservation Service Web Soil Survey

Key:

rtey.			
Soil	Symbol	Hydric Class	Taxonomy
Durand silt loam, 2 to 6 percent slopes, eroded	DuB2	Upland	Typic Argiudolls
Durand silt loam, 6 to 12 percent slopes, eroded	DuC2	Upland	Typic Argiudolls
Griswold loam, 6 to 12 percent slopes, eroded	GrC2	Upland	Typic Argiudolls
Ogle silt loam, 2 to 6 percent slopes	OgB	Upland	Typic Argiudolls
Plano silt loam, 2 to 6 percent slopes	PIB	Upland	Typic Argiudolls
Ringwood silt loam, 2 to 6 percent slopes, eroded	RnB2	Upland	Typic Argiudolls
Ringwood silt loam, 6 to 12 percent slopes, eroded	RnC2	Upland	Typic Argiudolls
Rockton loam, 2 to 6 percent slopes	RpB	Upland	Typic Argiudolls
Rotamer loam, 12 to 20 percent slopes	RtD	Upland	Typic Argiudolls
Wauconda silt loam, 0 to 3 percent slopes	WcA	Partially Hydric	Udollic Endoaqualfs





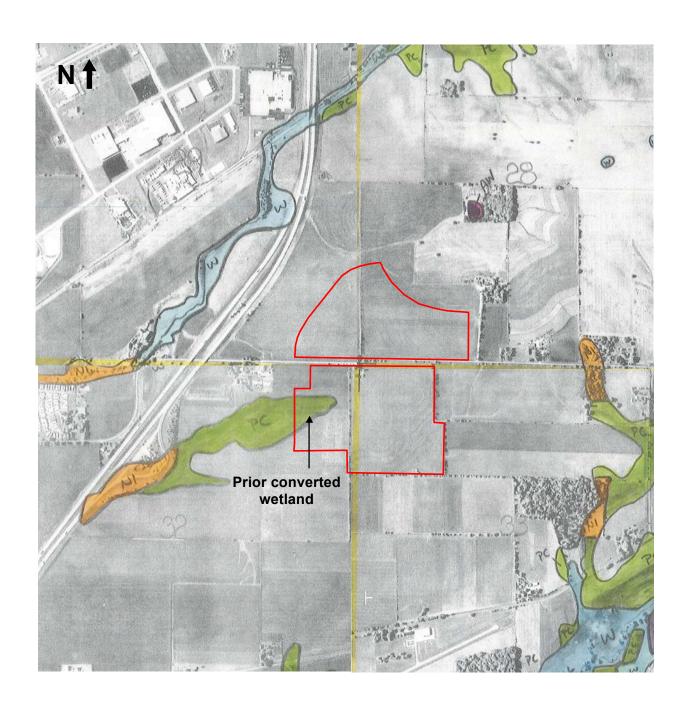
Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 4: Wisconsin Wetland Inventory

2008 aerial photograph with DNR waterways layer

Source: Wisconsin DNR Surface Water Data Viewer



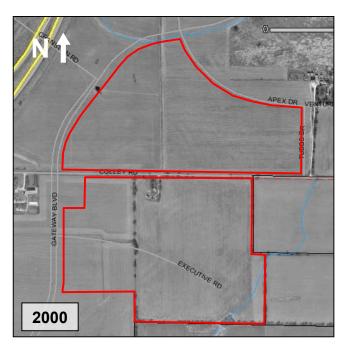


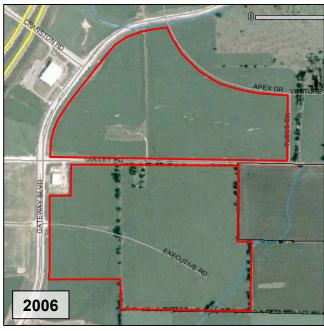
Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 5: NRCS Wetland Inventory

Image Source: Janesville USDA Service Center



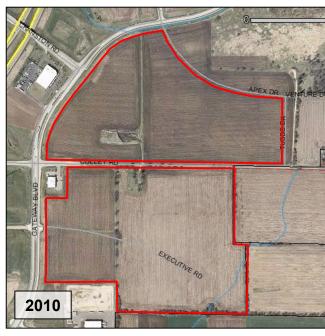




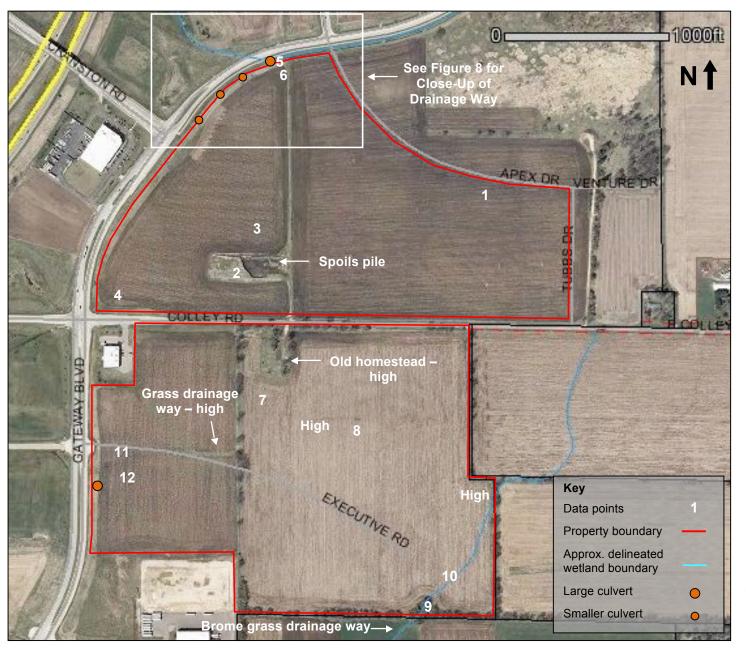
Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 6: Historic Aerials

Image Source: Rock County GIS







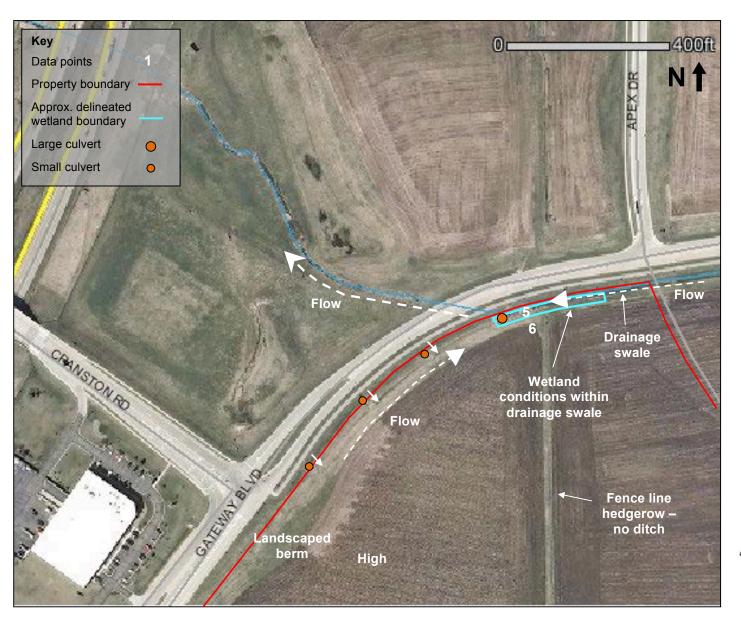
Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 7: Data Point Locations and Site Overview

2010 aerial photograph

Image Source: Rock County GIS





Sections 28, 29, 32, and 33 of Township 1 North, Range 13 East in the City of Beloit, Rock County, WI.

Figure 8: Close-up of Drainage way

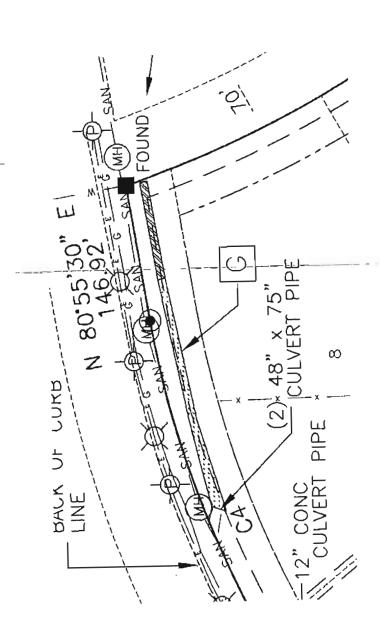
2010 aerial photograph

Image Source: Rock County GIS



STREAM
 WETLAND CONDITIONS IN MAPPED INTERMITTENT STREAM
MAPPED
<u>z</u>
CONDITIONS
 WETLAND

MAPPED DRAINAGE SWALE WITHOUT WETLAND CONDITIONS



Batherman Sweey Clox-UP 10/2

10/23/2012



Gateway Business Park, Beloit, WI Field Photographs 10/12/12

View from northeast corner of site near data point #1



View of farm field, facing southeast



View of road along eastern border of site, facing south



Landscape of farm field, facing south



Pictures taken from northwest corner of site



View of old homestead from data point #2, facing south



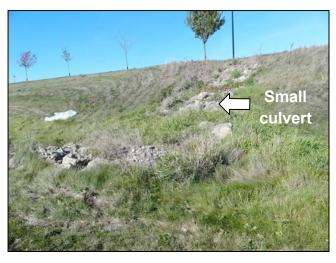
View of roadside ditch near data point #4, facing west. Northeast corner of Colley Rd and Gateway Blvd in background

Culverts along Gateway Blvd in northern part of site





Riprap below small culvert – right side of photo



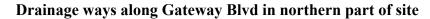
View of small culvert that drains Gateway Blvd



Large culvert that flows under Gateway Blvd. Note the grate at the culvert's mouth.



View of large culvert from roadside







Wetland drainage way – wetland flags not yet added



Wetland drainage swale with delineation flags



Facing north – ditch loses wetland vegetation



Drainage ways along Gateway Blvd



Looking east along Gateway Blvd. Wetland drainage swale visible on right with pink delineation flags. Drainage way loses wetland characteristics toward back of photo.



Water flows off the site to the drainage way above, northwest of the intersection between Gateway Blvd. and Cranston Rd. I-39 in far background.

Thompson & Associates WETLAND SERVICES

Features in southern half of site



View near data point #7, looking southwest



View from high ridge of field looking to SE corner of site



View of culverts under Gateway Blvd near data points 11 and 12, facing west



Prior-converted wetland area in western part of site near data points 11 and 12

Features in southern half of site





Stand of trees along southern border of site near data point #9



View of trees and other vegetation within tree stand



View of tree stand near data point #9, facing south



View at data point #9, looking south at grass drainage way through alfalfa field with brome grass

Site: Gateway Business Park

Wetland ID: Wetland Data Point(s): Adjacent Upland Data Point(s): Date(s) of Field Assessment: Investigator(s):	wetland drainage way 5 6 10/12/12 A. Thompson		General Description: 155 acres of farm fields dominated by corn stubble, and upland soils. A small area of a wetland (2 of 3 criteria)intermittent drainage way runs through northwestern corner of the site. It was mapped as an intermittant drainageway. A mapped intermittant drainageway on the southeast corner of the site was not associated with wetland vegetation, soils or hydrology.
WWI NRCS W Aerial ph	pographic map retland Inventory otographs	Descriptio No wetland No wetland One area of	shown; 2 intermittent streams identified shown; 2 intermittent streams identified Frior Converted Wetland is shown along the western site. Crop history slides not available. visible
Wetland Vegetation Community Type(s) and Small area of reed canary g in ditch.	Adjacent Upland Vegetation Community Type(s) and Dominant Species: Farm field dominated by corn stubble		
Wetland Soils Mapped Soil Type(s): Plano silt loam (upland)	H = hydric I = hydric inc	lusions	Adjacent Upland Soils Mapped Soil Type(s): Durand silt loam Griswold loam Ogle silt loam Plano silt loam Ringwood Rockton loam Rotamer loam Wauconda silt loam - I
General Soil Descriptio 10YR 3/2 and 10YR 4/3 silt			General Soil Description: 10YR 4/3 silt loam
			water signatures, etc.) AC-Neutral test (D5) and oxidized rhizospheres
Boundary determined The drainage way was dis hydrology indicators.		landscape po	osition and was staked where it met vegetatation and

Site: Gateway Business Park

Atypica	l Areas	Corresponding Data Points	Description:
\boxtimes	Farmed Field	1,3,4,7,8,10,11,12	Uniform corn stubble
	Soil Removal		
\boxtimes	Fill	2	adjacent spoils pile
	Subsurface Plow		
\boxtimes	Surface Layer Removed	5	roadside ditch cut
	Man-Made Structure		
	Dam/Levee		
	Channelization		
	Drainage		
	Beaver Dam		
	Change in River		
<u> </u>		<u></u>	
Problem		Corresponding Data Points	Description:
Problem			Description:
Problem	n Areas:		Description:
Problem	n Areas: Highly seasonal wetland		Description:
Problem	Areas: Highly seasonal wetland Vegetated flats		Description:
Problem	Highly seasonal wetland Vegetated flats FACU dominated wetland		Description:
Problem	Highly seasonal wetland Vegetated flats FACU dominated wetland Human-induced wetland		Description:
Problem	Highly seasonal wetland Vegetated flats FACU dominated wetland Human-induced wetland Problem soils		Description:
Problem	Highly seasonal wetland Vegetated flats FACU dominated wetland Human-induced wetland Problem soils Prairie pothole		Description:
Problem	Highly seasonal wetland Vegetated flats FACU dominated wetland Human-induced wetland Problem soils Prairie pothole Wetland on drumlin		Description:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Business Park	~	City/County:	Below	FIROCK	Sampling Date:	10/12/14
Applicant/Owner City of Beloit					Sampling Point:	
Investigator(s): TAWS - Ah. (1/43 mpss		Section	, Township,	Range: SO8 T		
			Local	relief (concave, convex,		
Soll Map Unit Name: Durand sittle nor	`				fication: 4	
Are climatic/hydrologic conditions on the site typical for t		Yes	No X	Reason: 2004	+ 400	
Are Vegetation	•		-,-	Are "Normal Circumste		(Pes) X No
Are Vegetation Soli, or Hydrology					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>
SUMMARY OF FINDINGS - Attach site map show		oint locations	. transaci	ts. Important features	s. etc.	
					3.44.	
Hydrophytic Vegetation Present? Yes				ed Area within	No X	
Hydric Soil Present? Yes	-No -	a	Wetland?	_	No/	
Wetland Hydrology Present? Yes				onal Watend Site ID:		
Remarks: Corn havested this w	rue - st	bble 1	hususin	O 37		
VEGETATION - Use scientific names of plants.						
	Absolute %	Dominant	Indicator	Dominance Test works	sheet:	
Tree Stratum (Ptot size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant S	Species That Are	
1				OBL, FACW, or FAC;	_	(A)
2				Total Number of Domi	nant Species	
3				Across All Strata:		(B)
4.					_	
5.				Percent of Dominant S DBL, FACW, or FAC:		(A/B)
		■ Total Cover		DDL, I NOVI, BI I NO.	-	(/~0)
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)				Prevalence Index work	csheet:	
1,				Total % Cover of:	M	ultiply by:
2.						
3.				_		
4				FAC species		
5				FACU species	×4=.	
6.				UPL species	x5=	
7				Column Totals:	(A)	(B)
		■ Total Cover		Prevalence Inde	ex = B/A =	
Herb Stratum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation	n Indicators:	
1. Zea Mays - corn star	801c. 100		NI	Rapid Test for Hydr	ophytic Vegetation	
2				Dominance Test is	>50%	
3.				Prevalence Index is	s ≤3.0¹	
4.				-		pporting data in Remarks)
5.				Problematic Hydrop		
8				"Indicators of hydric soil a disturbed or problematic.	na wetana hydrology	must be present, unvess
7				Definitions of Vegetation	on Strata	
8						a la diametre at terret
9				Tree - Woody plants 3 height (DSH), regardle		2 HT CHAINGREE BY CORREST
10						
Woody Vine Stratum (Plot size; equiv to 30' radius)		■ Yotal Cover		Sapling/shrub - Woody 3.28 (1m) tail.	/ plants less than 3	in. DBH and greater than
1.						s, regardless of size, and
2.				woody plants less than	1 3.28 π tall.	
3.				Woody vines - All woo	dy vines greater the	an 3.28 ft in height.
		= Total Cover		ls Hydrophytic Veget	ation Present?	Yes No X
Remarks:						
CM N Stylle						
· · · · ·						

				f Indicators.)	
Xepth .	Matrix	Redox Features		· ···,	
nches)	Color (maist) %	Color (moist) %	Type' Loc	Texture Remark	ks
0-11"	10484/3 100			sit loam	
- 14	1011117			3(7) 7(7)	
		·			
		- — — —			
e; C=Conc	entration, O≃Depletioπ, RM=Red	luced Matrix, CS=Covered or Coated Sa	and Grains.	*Location: PL=Pore Uning, M=	Matrix.
ric Soil Ind	icators: (For LRR K)			Indicators for Problematic Hydric Soils*:	
Histosol (A		Loamy Mucky Mineral (F1)	•	2 cm Muck (A10)	
Histic Epip	pedon (A2)	Loamy Gleyed Matrix (F2)		Coast Prairie Redox (A16)	
Black Hist	ic (A3)	Depleted Matrix (F3)		5 cm Mucky Peat or Peat (S3)	
_ Hydrogen	Sulfide (A4)	Redox Dark Surface (F6)		Dark Surface (\$7)	
_ Stretified I	Layers (A5)	Depleted Dark Surface (F7	ን	Polyvalue Below Surface (S8)	
_ Depleted I	Below Dark Surface (A11)	Redox Depressions (F8)		Thin Dark Surface (S9)	
_ Thick Dad	k Surface (A12)			Iron-Manganese Masses (F12)	
_ Sandy Mu	icky Mineral (S1)			Red Parent Material (TF2)	
_ ′	eyed Matrix (S4)			Very Shallow Dark Surface (TF12)	
_ Sandy Re	• •			Other (Explain in Remarks)	
_ Stripped A	• •				
dicators of h	ydrophytic vegetation and wetlar	nd hydrology must be present, unless di	aturbed or problematic	· · · · · · · · · · · · · · · · · · ·	
strictive Lay	er (if observed):				
Type:					
Depth (incl marks:	hes):			ls Hydric Soil Present? Yes	<u> </u>
	/	MARIO AL HIL	who.i. so		
				Secondary (ndicators (minimum of tw	o required
tiand Hydrok	ogy indicators:	check all that apply)		Secondary Indicators (minimum of two	o required
tiarid Hydrok	ogy indicators; ors (minimum of one is required:	check all that apply) Water-Stained Leaves (8	19)		vo required
tiand Hydrok mary Indicato Surface W	ogy indicators; ors (minimum of one is required:	11.11	19)	Surface Soil Cracks (86)	vo required
ttand Hydrok mary Indicato Surface W High Wate Seturation	ogy indicators: ors (minimum of one is required: Vater (A1) er Table (A2) 1 (A3)	Water-Stained Leaves (8 Aquatic Fauna (813) Mari Deposits (815)		Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2)	·
tiand Hydrok mary Indicate Surface W High Wate Seturation Water Ma	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) 1 (A3) rks (B1)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C	01)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2) Crayfish Burrows (C8)	,
ttand Hydrok mary Indicate Surface W High Wate Seturation Water Mac Sediment	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) 1 (A3) rks (B1) Deposits (B2)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Coddized Rhizospheres of	C1) on Living Roots (C3)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (816) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In	nagery (C9
ttand Hydrok mary Indicato Surface W High Wate Seturation Water Mai Sediment Drift Depo	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) 1 (A3) rks (B1) Deposits (B2) sits (B3)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron	C1) in Living Roots (C3) in (C4)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (816) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D	nagery (C9
tiand Hydrok mary Indicato Surface W High Wate Seturation Water Mai Sediment Drift Depo Algal Mat	ogy Indicators: ons (minimum of one is required: Vater (A1) er Table (A2) i (A3) rks (B1) Deposits (B2) saits (B3) or Crust (B4)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in	C1) in Living Roots (C3) in (C4)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (816) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	nagery (C9
tiand Hydrok mary Indicate Surface W High Wate Seturation Water Mai Sediment Drift Depo Atgal Mat fron Depos	ogy Indicators: ons (minimum of one is required: Vater (A1) er Table (A2) in (A3) inks (B1) Deposits (B2) issits (B3) or Crust (B4) sits (B5)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7)	C1) in Living Roots (C3) in (C4) Tilled Solis (C6)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (816) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stanted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3)	nagery (C9
ttand Hydrok mary Indicate Surface W High Wate Seturation Water Mai Sediment Drift Depo Atgal Mat fron Depo Inundation	ogy Indicators: ons (minimum of one is required: Vater (A1) er Table (A2) i (A3) rks (B1) Deposits (B2) saits (B3) or Crust (B4)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	C1) in Living Roots (C3) in (C4) Tilled Solis (C6)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (816) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2)	nagery (C9
stiand Hydrok mary Indicate Surface W High Wate Seturation Water Mai Sediment Drift Depo Algal Mat fron Depoir inundation Sparsely V	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2) satis (B3) or Crust (B4) eits (B5) or Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remark	C1) in Living Roots (C3) in (C4) Tilled Solis (C6)	Surface Soil Cracks (86) Drainege Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stanted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	nagery (C9
imary Indicate Surface W High Wate Seturation Water Ma. Sediment Drift Depot Introduction Sparsely V	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2) suits (B3) or Crust (B4) sits (B5) or Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark	C1) in Living Roots (C3) in (C4) Tilled Solis (C6)	Surface Soil Cracks (86) Drainege Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stanted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	nagery (C9
ettand Hydrok imary Indicate Surface W High Wate Seturation Water Mai Sediment Drift Depo Algal Mat fron Depo inundation Sparsely V ald Observation	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) i (A3) rks (B1) Deposits (B2) saits (B3) or Crust (B4) sits (B5) i Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8) Ions: Present? Yes	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark	C1) in Living Roots (C3) in (C4) Tilled Solis (C6)	Surface Soil Cracks (86) Drainege Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stanted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	nagery (C9
ettand Hydrok imary Indicate Surface W High Wate Seturation Water Ma. Sediment Drift Depo Atgal Mat fron Depo Inundation Sparsely V ald Observati	ogy Indicators: ons (minimum of one is required: Vater (A1) or Table (A2) i (A3) rks (B1) Deposits (B2) saits (B3) or Crust (B4) sits (B5) i Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8) Ions: Present? Sesent? Yes	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark No Depth (inches): Depth (inches):	C1) In Living Roots (C3) In (C4) Tilled Solis (C6) (6)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	nagery (C9
tiand Hydrok mary Indicate Surface W High Wate Seturation Water Mai Sediment Drift Depo Algel Mat fron Depo inundation Sparsely W dd Observati	ogy Indicators: ors (minimum of one is required: Vater (A1) or Table (A2) i (A3) rks (B1) Deposits (B2) saits (B3) or Crust (B4) sits (B5) i Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8) Ions: Present? Sesent? Sesent.	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark	C1) In Living Roots (C3) In (C4) Tilled Solis (C6) (6)	Surface Soil Cracks (86) Drainege Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stanted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)	nagery (C9
thand Hydrok mary Indicate Surface W High Wate Seturation Water Ma. Sediment Drift Depo Algal Mat fron Depo inundation Sparsely \ Id Observati face Water F ter Table Pre uration Presuludes capilla	ogy Indicators: ors (minimum of one is required: Vater (A1) er Table (A2) i (A3) rks (B1) Deposits (B2) satis (B3) or Crust (B4) sits (B5) i Visible on Asrial Imagery (B7) Vegetated Concave Surface (B8) ions: Present? geent? yes ent? yes ury fringe)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres or Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark No Depth (inches): Depth (inches):	C1) In Living Roots (C3) In (C4) Tilled Solis (C6) (s)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	nagery (C9
sand Hydrokinary Indicate Surface W High Water Seturation Water Mai Sediment Drift Depo Algal Mat fron Depo inundation Sparsely W d Observati face Water F ter Table Pre- unation Presuludes capilla	ogy Indicators: ors (minimum of one is required: Vater (A1) er Table (A2) i (A3) rks (B1) Deposits (B2) satis (B3) or Crust (B4) sits (B5) i Visible on Asrial Imagery (B7) Vegetated Concave Surface (B8) ions: Present? geent? yes ent? yes ury fringe)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark No Depth (inches): No Depth (inches):	C1) In Living Roots (C3) In (C4) Tilled Solis (C6) (s)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	nagery (C9
tand Hydrokinary Indicate Surface W High Water Seturation Water Mai Sediment Drift Depo Algal Mat fron Depo inundation Sparsely V d Observati face Water F er Table Pre uration Press ludes capilla cribe Recon	ogy Indicators: ors (minimum of one is required: Vater (A1) er Table (A2) i (A3) rks (B1) Deposits (B2) satis (B3) or Crust (B4) sits (B5) i Visible on Asrial Imagery (B7) Vegetated Concave Surface (B8) ions: Present? geent? yes ent? yes ury fringe)	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark No Depth (inches): No Depth (inches):	C1) In Living Roots (C3) In (C4) Tilled Solis (C6) (s)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	nagery (C9
tiand Hydrok mary Indicate Surface W High Water Seturation Water Ma. Sediment Drift Depo Atgal Mat fron Depo inundation Sparsely W d Observati fface Water F eter Table Pre- turation Presidues capilla	ogy Indicators: ors (minimum of one is required: Vater (A1) er Table (A2) I (A3) Irka (B1) Deposits (B2) Isits (B3) or Crust (B4) Isits (B5) In Visible on Aerial Imagery (B7) Vegetated Concave Surface (B8) Ions: Present? Ions: Present? Ions: Present? Ions: I	Water-Stained Leaves (8 Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C Oxidized Rhizospheres of Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain In Remark No Depth (inches): No Depth (inches):	C1) In Living Roots (C3) In (C4) Tilled Solis (C6) (s)	Surface Soil Cracks (86) Drainege Patterns (810) Moss Trim Lines (818) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial In Stunted or Stressed Plants (D Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)	nagery (C9

WETLAND DET	ERMINATION	DATA FORM	- Northcer	ntral and Northeast Region
Project/Site: Base-1 3-5/155 Pa/		C3tv/County	Reloit	Sampling Date: 1912/12
Applicant/Owner: City of Belof		Oxy/Codiny		State: LT Sampling Point: 2
Investigator(s): TAWS- Alice Thomps		Section		Range: 529 7 1 1 7 13E
Landform (hillslope, terrace, etc.): h:1151-gc_		Secusii	, rowstanp,	relief (concave, convex, none):
Coll Man Unit Name:	5.00		LOCAL	MARI constructor
Soil Map Unit Name: $\frac{p/(4 + b + 5)}{2} = \frac{1}{2}$ Are climatic/hydrologic conditions on the site typical for this	time of year?	Ves	No v	Wit classification:
Are Vegetation Soil or Hydrology	signmearmy (problematic)	s springer ser	<u></u>	Are "Normal Circumstances" present? Yes X No
SUMMARY OF FINDINGS - Attach site map showin	ng sampling p	oint locations	s, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes	· - 17 -	la	the Sample	ad Area within
	.No	£	Wetland?	YesNo
Wetland Hydrology Present? Yes	No _/ \		If yes, optic	onal Wetland Site ID:
Remarks:	١		-	
Adjust Apparent sports	Full 5 -	2050-	to.	~ C- 15
VEGETATION - Use scientific names of plants,				
	Absolute %	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 30' radius) 1	Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species
3				Across All Strete: [1] (8) Percent of Dominant Species That Are
5		= Total Cover		OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)		- 10010000		Prevalence Index worksheet:
, , , , , , , , , , , , , , , , , , , ,				Total % Cover of; Multiply by:
1				
2				
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
B				UPL species x 5 =
7				Column Totals: (A)(B)
		≖ Total Cover		Prevalence Index = B/A =
Herb Stratum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation Indicators:
1 Brows incrnes			Opl	Rapid Test for Hydrophytic Vegetation
2. Consela (mardai)	10	,	FLLU	Dominance Test is >50%
3. Arbos- 101-			FAC	Prevalence Index is \$3.01
4. Zen min 15			<u> </u>	Morphological Adaptations' (Provide supporting data in Remarks)
5. There is activated			Frank	Problematic Hydrophytic Vegetation' (Explain)
	— 			_ , , , , , , , , , , , , , , , , , , ,
	_ <u></u>		140	"Indicators of hydric soil and wettand hydrology must be present, unless disturbed or problematic.
7. Anyone where yet of lex US	_ 5,		Fue J	Definitions of Vegetation Strata:
B. Golden Tarnelly 12	10.		FLLU	
e. halle visans			150	Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (D6H), regardless of height.
10	130	= Total Cover	5/26	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tell.
2				Woody vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		is Hydrophytic Vegetation Present? Yes No /
Remarks:				
Remarks: + swink wither	ad Fuc		۹۱.	,

•		e depth need	ded to document the l		mfirm the ab	sence of	Indicators.)	
Depth (inches)	Matrix		Redox Featu		T1	17	Tardura	Damado
	Color (moist)		Color (moist)	_ <u> </u>	_Type'	Loc	Texture	Remarks
<u> </u>	1045413	100		~			ell longs	
	000 TOOLS							
'Type: C=Conc	entration, D≂Depletio	n, RM≃Reduk	ced Matrix, CS=Covered	or Coated Sa	and Grains.		*Location; P	L=Pore Lining, M=Matrix.
Hydric Soll Ind	icators: (For LRR K)						Indicators for Problems	etic Hydric Soits ³ :
Histosol (/	A1)		Loamy Muck	y Mineral (F1)			2 cm Muck (A10)	
_	pedon (A2)			d Matrix (F2)			Coast Prairie Red	
Black Hist	` '		Depleted Ma				5 cm Mucky Peat	` '
	Sulfide (A4)		Redox Cark				Dark Surface (\$7)	
	Layers (A5)	A 1 4 \	Redox Depre	rk Surface (F7))		Polyvatue Below S Thin Dark Surface	, ,
	Below Dark Surface (a k Surface (A12)	~11)	Keoox Cepte	35510(15 (FD)			Iron-Manganese N	
	cky Mineral (S1)						Red Parent Mater	
	yed Matrix (S4)						Very Shallow Dark	• •
Sandy Re							Other (Explain in	Remarks)
Stripped M	flatrīx (S6)							
*Indicators of h	ydrophytic vegetation	and wettand	hydrology must be pres	sent, unless dis	sturbed or pro	oblematic.		
Restrictive Lay	er (if observed):							
Туре:								\ -
Depth (Incl	res):						is Hydric Soil Presen	
Remarks;	gul; semb	1.1.	Lutari	ŗ.	L 14.	-1.4	- Wig (1.00)	actify used.
	gul, semb.	4(11)	-	ex Jaun	1''	(. { - 1	
HYDROLOG							0	to an electrication and house as a solution of the
Wetland Hydrol Edman Indicate	ogy indicators; xrs (minimum of one i	e required: ch	eck all that accept					tors (minimum of two required) bit Crecks (B6)
Surface V		o required. or		ned Leaves (Bi	8)			Patterns (810)
_	er Table (A2)		Aquatic Fau	•	•		Moss Trim	Lines (B16)
Saturation	(A3)		Mari Depos	its (815)			Dry-Seeso	n Water Table (C2)
Water Ma	. ,			Sulfide Odor (C		. (00)		urrows (C8)
	Deposits (B2)		_	hizospheres or of Reduced Iron		\$ (63)		Visible on Aerial Imagery (C9) Stressed Plants (D1)
Ortit Depo	or Crust (B4)		_	Reduction in		26)		ic Position (D2)
Fron Depo	• •			Surface (C7)		,		quiterd (D3)
	visible on Aerial Ima	igery (B7)	Other (Expi	lain in Remark	s)		Microtopog	praphic Relief (D4)
Sparsely \	egetated Concave S	urface (B6)					FAC-Neut	al Test (D5)
Field Observat	lone:					Т		<u> </u>
Surface Water 6		es M	lo \ / Depth (in	ches):		1		
Water Table Pro			ka Depth (in					
Saturation Pres	ent? Y	es }	ko Depth (in	ches):		ls Wet	dand Hydrology Presen	t? Yes No_ <u>X</u> _
(includes capitle			r		tional Harval	lable)		
PASCUDE KECOL	പല വണ്ട (ബങ്ങൾ മുട്ടവ	ys, montoni	g well, æerial photos, p	evious inspec	uuna), II BVBJ	WUIE.		
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Projectishe Beloit Gate way Business	5 PNX	City/County	: Belo	T POCK Sampling Date: 10/12/12
Applicant/Owner City of Felicit				State: WT Sampling Point. 3
investigator(s): TAWS - Alicy Thompson		Section	, Tawnship,	Range: 529 TIN 2 3E
Landform (hillslope, terrace, etc.): h. 1151012				relief (concave, convex, none): CAN YY X
Soil Map Unit Name: Plans Sult land	^			WWI classification:
Are climatic/hydrologic conditions on the site typical for this	time of year?	Yes	No X	Reason: dought visi
Are VegetationsSoll, or Hydrology	significantly	disturbed?		Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soli, or Hydrology	_problematic	>		
SUMMARY OF FINDINGS - Attach sits map showing	g sampling p	oint locations	s, transec	is, important features, etc.
Hydrophytic Vegetation Present? YesI	No \	ía.	the Sample	ed Area within
Hydric Sail Present? Yes	No X		Wedand?	YesNo
Wettand Hydrology Present? Yes	No /		If yes, option	onal Wetland Site IO:
Remarks:				
VEGETATION - Use scientific names of plants.				
	Absolute %	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant Species That Are
1,				OBL, FACW, or FAC:
2				Total Number of Cominant Species
3				Across All Strata: (B)
4				Percent of Dominant Species That Are
5				OBL, FACW, or FAC:(A/B)
		≈ Total Cover		
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)				Prevalence index worksheet:
1				Total % Cover of: Multiply by
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
8				UPL species x 5 =
7				Column Totals: (A) (B)
		= Total Cover		Prevalence index = 8/A =
Herb Stratum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation Indicators:
1. Coin Stubble - Zen mays	io		MI	Rapid Test for Hydrophytic Vegetation
2				Dominance Test is >50%
3				Pravalence Index is ≤3.0°
4				Morphological Adaptations* (Provide supporting data in Remarks)
5				Problematic Hydrophytic Vegetation1 (Explain)
6.				Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strate:
8				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
9				height (DBH), regardless of height.
10		= Total Cover		Sapling/shrub - Woody plents less than 3 in. DBH and greater than 3.28 (1m) tall.
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3,28 ft tall.
2 3				Woody vines - All woody vines greater than 3.28 ft in height.
		■ Total Cover		is Hydrophytic Vegetation Present? Yes No
Remarks:				
corn subble unition	. ` ` ` `			

~	~	1	

Sampling Point

oint _	3
	_

Depth	Matrix		Redox Feature)B				
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loca	Texture	Remarks
5 = 10 "	10424/2	160	•				all lock	
<u> </u>	N F 115	1 1 1						
 .	,	 .						
			 					
			·					
			ed Matrix, CS=Covered	or Coated Sa	and Grains.			=Pore Lining, M=Matrix.
	artors: (For LRR K	,	Loomy Musley	Mineral (C4)			Indicators for Problema	de Hydne Soks":
Histosol (A1 Histic Epipe	•		Loamy Mucky Loamy Gleyed	-			2 cm Muck (A10) Coest Prairie Redo	14.19\
	` '							` '
Black Histic	- 1		Depleted Matri	` '			5 cm Mucky Peet o	or Pear (S3)
Hydrogen S			Redox Dark Si				Dark Surface (S7)	urface (CB)
Stratified La	, (,	(844)	Depleted Dark		J		Polyvelue Below S	• •
	elow Dark Surface ((רנא)	Redax Depres	SHORE (FB)			Thin Dark Surface	• • •
	Surface (A12)						Iron-Manganese M	* *
	ky Mineral (\$1)						Red Parent Materia	• •
_	ed Matrix (\$4)						Very Shallow Dark	• •
Sandy Redo							Other (Explain in R	(emarks)
Stripped Ma								
	r (lif observed):	Mano wedano	hydrology must be prese	mt, uniesa oka	samed or pro	житын жүргү		
Type:	i (ii Obbai ved).							
Depth (inche							la Hydric Soil Present	7 Yes No X
emarks:								
	,							
etland Hydrolog	gy indicators:						Secondary Indicate	es (minimum of two required)
	s (minimum of one	ls required: ch						I Cracks (B6)
Surface Wa			Weter-Steine	•	9)			atterns (B10)
High Water			Aquatic Faun				Moss Trim (• ,
Seturation (·		Mari Deposits					Water Table (C2)
Water Mark	is (61) Jeposits (82)		Hydrogen Su Oxidized Rhi			· (C3)	Craynsh Bu	rows (Cs) /isible on Aerial Imagery (C9)
Drift Deposi			Presence of I		_	s (C3)		Stressed Plants (D1)
Algai Mato	• •		Recent Iron 8		•	(8)		Sesition (D2)
Iron Deposit			Thin Muck Su			,	Shallow Aqu	, ,
	Visible on Aerial Ima	agery (B7)	Other (Explai		3)			aphic Relief (D4)
Sparsely Ve	egetated Concave S	Surface (B8)	_ ` ` '		,		FAC-Neutra	rl Test (05)
eld Observatio							·	
aface Water Pri			lo Depth (inch	-				
ater Table Pres			lo Depth (inch			I		
aturation Preser		/esN	lo Depth (inch	ea):		18 Wet	land Hydrology Present	? Yes No?
ncludes capillary escribe Records		ıge, monitorin	g weil, aerial photos, pre	vious inspect	tions), if avail	able:		
emerks:	ho en	نات رئي يط	my day of	- h:5	N 0~	I rail	tank-	
							<u> </u>	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Billoin Gayway Bushis	7~1	City/County	Belo	+ Pock Sampling Date: 10 12/12			
Applicant/Owner: City of Blight		_		State: Sampling Point: 4			
Investigator(s): TAWS - A Thomas So-	Section, Township, Range: 529 TIN R 13/E						
Landform (hillstope, terrace, etc.): htts:/orc				relief (concave, convex, none): +/4+			
Soil Map Unit Name: Plano silt loam				WWI classification:			
Are climatic/hydrologic conditions on the site typical for this t	ime of year?	Yes	No Y	Reason: dought drag			
Are Vegetation, Soil or Hydrology				Are "Normal Circumstances" present? Yes X No			
Are Vegetation, Soil, or Hydrology	_ problematic	?		,			
SUMMARY OF FINDINGS - Attach site map showing	g gnildmes p	oint locations	B, transect	ts, important festures, etc.			
Hydrophytic Vegetation Present? YesN	10	- In	the Samo	ed Area within			
Hydric Soil Present? Yes No Wettand? Yes No							
Wetland Hydrology Present? YesN	10		If yes, opti	onal Wetland Site IO:			
Remarks: Lawry 7th of N.S.	er S						
VEGETATION - Use scientific names of plants.							
	Absolute %	Dominant	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size; equiv to 30' radius)	Cover	Species?	Status	Number of Dominant Species That Are			
1				OBL, FACW, or FAC:(A)			
2				Total Number of Dominant Species			
3				Across All Strata:(B)			
4				Percent of Dominant Species That Are			
5				OBL, FACW, or FAC: (A/B)			
		= Total Cover					
Sapling/Shrub Stratum (Flot size: equiv to 15' radius)				Prevalence Index worksheet:			
1,				Total % Cover of: Multiply by:			
2				OBL species x1 =			
3				FACW species x 2 =			
4				FAC species x 3 =			
5				FACU species x 4 =			
6,				UPL species x 5 ≃			
7				Column Totals: (A) (B)			
		= Total Cover		Prevalence Index = B/A =			
Herb Stratum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation Indicators:			
1. Coin souble - Zin mays	100		いユ	Rapid Test for Hydrophytic Vegetation			
2				Dominance Test is >50%			
3				Prevalence Index is ≤3,0°			
4.				Morphological Adaptations ¹ (Provide supporting data in Remarks)			
5				Problematic Hydrophytic Vegetation¹ (Explain)			
6				Indicators of hydric soil and wetland hydrology must be present, unless			
7				disturbed or problematic,			
6				Definitions of Vegetation Strate:			
9.				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
10		= Total Cover		Sapling/shrub - Woody plents (ess than 3 in. DBH and greater than			
Woody Vine Stratum (Plot size: equity to 30' radius)		- 10(01 0040)		3.28 (1m) tall.			
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.			
2.				HOULY PIGNIG 1500 BIGH 3.20 IL WH.			
3.				Woody vines - All woody vines greater than 3.28 ft in height.			
		= Total Cover		Is Hydrophytic Vegetation Present? Yes No			
Remarks:	(7.					
con syphie nu	1. 18 (w						

SOIL							Sampling Point:
Profile Descrip	ition: (Describe to the depth re	eded to document the in	dicator or co	onfirm the at	bsence o	of Indicators.)	
Depth	Matrix	Redox Feature	18				
(inches)	Colar (maist) %	Color (molst)	%	Type ⁴	Loc	Texture	Remarks
() - 1 p	10424/3 100					sitt lang	
10-1.	10/12/2 100					5. H Texus	
Type: C=Cono	entration, D=Depletion, RM≅Red	uced Matrix, CS=Covered	or Coated S	and Grains,		*Location: PL	=Pore Lining, M≖Matrix.
•	icators: (For LRR K)					Indicators for Problemat	ic Hydric Soils":
Histosol (A	•	Loamy Mucky	` ,			2 cm Muck (A10)	
	pedon (A2)	Loamy Gleyed				Coast Prairie Redo:	` ·
Black Hist	tic (A3)	Depleted Matr				5 cm Mucky Peat o	r Peat (S3)
Hydrogen	Sulfide (A4)	Redox Dark S	urface (F6)			Dank Surface (S7)	
Stratified I	Layers (A5)	Depleted Dark	Surface (F7)		Polyvalue Below Su	nface (\$8)
Oepleted 8	Below Dark Surface (A11)	Redox Depres	sions (F8)			Thin Dark Surface (S9)
Thick Dent	k Surface (A12)					Iron-Manganese Ma	ISSES (F12)
Sandy Mu	cky Mineral (S1)					Red Parent Materia) (TF2)
Sandy Gle	ayed Metrix (S4)					Very Shellow Dark	Surface (TF12)
Sandy Red	dox (S5)					Other (Explain in Re	emarks)
	Alatrix (S6)						
	ydrophytic vegetation and wettar	nd hydrology must be nosse	ent unless di	stricted ar an	oblematic	•	
.,	· · · · · · · · · · · · · · · · · · ·	,				<u>*</u>	
•	er (if observed);						
Type:							,
Depth (inct	nes):					is Hydric Soll Present?	Yes No/_
HYDROLOG'	he produce	kili - our_				at silver	14
Wetland Hydrok	ony Indicators:					Secondary Indicato	rs (minimum of two required
•	ors (minimum of one is required:	check all that apoly)				Surface Soil	
Surface W	(1. (1.)	Water-Staine	d Leaves (8	.8)		Drainage Pa	
_	er Table (A2)	Aquatic Faur		•		Moss Trim L	
Saturation	ı (A3)	Mari Deposit	s (B15)			Dry-Season	Water Table (C2)
Water Mad	rks (B1)	Hydrogen St	ilfide Odor (C	(1)		Crayfish Bur	rows (C8)
Sediment	Deposits (B2)	Oxidized Rhi	zospheres o	n Lîving Root	ts (C3)		isible on Aerial Imagery (C9)
Drift Depo	• •	Presence of					tressed Plants (D1)
	or Crust (B4)			Tilled Soils (C6)		Position (D2)
Iron Depos	• •	Thin Muck S	, ,			Shellow Aqu	
	Visible on Aerial Imagery (B7)	Other (Expla	in in Remark	8)			phic Relief (D4)
Sparsely \	/egetated Concave Surface (B8)					FAC-Neutral	Fest (D5)
Field Observati	fons:	·					
Surface Water F		No \ / Depth (Inch	ves).				
Water Table Pre		Na X Depth (incl			•		
Saturation Prese		No Depth (Inch			is We	stland Hydrology Present?	Yes No
(includes capilla					-		
	ded Data (stream gauge, monitor	ring well, aerial photos, pre	víous inspec	tions), if avai	lable:		
							
Remarks:	lowest point o	~ landsrivat	400	Κş	6	evivence of	
	lowst point o	libin ~ 3	1 100	ide at	-د	Dad Car	
	1 , 2		11 0 44		£.		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: GAMUNY BUSINESS PO	ask- City	//County: Rock / Bullo, T Sampling Date: 13 12 1/2
upplicant/Owner: Cifl of Byloit		State: LT Sampling Point: _5
westigator(s): TAWS - A. Thompsu	_	Section, Township, Range: 528 TIP 213, E
andform (hillstope, terrace, etc.):		Local relief (concave, convex, none):
oil Map Unit Name: Plano Sit	1.am	WM classification: lintermitiant alvainage
re climatic/hydrologic conditions on the site typic	all for this time of year? Yes	No X Resson: AND JUNT YEAR
те Vegetation	ysignificantly disturb	ed? Jith Are "Normal Circumstances" present? Yes X_No
a Vegetation, Soil ', or Hydrolog	y problematic?	
UMMARY OF FINDINGS - Attach site map	showing sampling point ic	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	X No	to the Remoded Area within draw while we within
Hydric Soil Present? Yes	No	is the Sampled Area within a Wetland? Yes No Vighthan Sampled Area within
Vettand Hydrology Present? Yes		if yes, optional Wetland Site ID:
Remarks:		
Mowed roadside	ditih - w m	othiple up vap and lets, in lets
intermettant stry	am or multip	, mays flows under 6 muny Blod & North
/EGETATION - Use scientific names of plan	•	
		inant Indicator Dominance Test worksheet:
ree Stratum (Plot size: equiv to 30' radius)		Status Number of Dominant Species That Are
·		OBL, FACW, or FAC:
		Total Number of Dominant Species
		Across All Streta; (B)
		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
<u></u>	= Tota	al Cover
apling/Shrub Stratum (Plot size: equiv to 15' rad	dius)	Prevalence index worksheet:
		Total % Cover of: Multiply by:
		OBL species x 1 =
		FACW species x 2 =
		FAC species x 3 =
		FACU species x4 =
		UPL species x 5 =
·		
·		Column Totals: (A) (B) at Cover Prevalence Index = B/A =
ferb Stratum (Plot size: equiv to 5' radius)	mark di	Hydrophytic Vegetation Indicators:
Pholans aroudinarae	80 M	Fnc W Rapid Test for Hydrophytic Vegetation
Floring Lythogoda	5	Obl X Dominance Test is >50%
		 _
		Morphological Adaptations* (Provide supporting data in Remarks)
·		Problematic Hydrophytic Vegetation (Explain)
·		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
·		Definitions of Vegetation Strata:
·		Tree - Woody plants 3 in. (7.8cm) or more in diameter at breast
		height (DBH), regardless of height.
voody Vine Stratum (Plot size; equiv to 30' radiu	= Tota	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall.
·		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3,28 ft tell.
		Woody vines - All woody vines greater than 3.28 ft in height.
l	= Teb	at Cover la Hydrophytic Vegetation Present? Yes No
emarks: 124, & dirth at m	oud side - moi	
1144 V 1464 K	, , o 3, , , , , , , , , , , , , , , , ,	meg reed surrand owns .
above ave-	flagged Vexet	ton changes to rommon brome. Bows incom

SOIL				Sampling Point 5

	rtion: (Describe to the	depth needs	ed to document the in	dicator or co	enfirm the al	sence of	indicators.)	
Depth (inches)	Matrix		Redox Feature					
(Inches)	Color (moist)		Calor (moist)		Type¹		Texture	Remarks
0 - 10	1078-113	100					Sit Juna	
~ - 13	104E 3/2	100					s. 12 / long lon	~
<u> 13</u>	10/15 2/5						3.1 7	
			-	-				
=			1-1-1-1					2
		, RM=Reduce	xt Matrix, CS≃Covered	or Coated Sa	and Grains.			×Pore Lining, M≃Matrix.
*	licators: (For LRR K)		/ nomu Munku	Minom(/51)			Indicators for Problemat	HYOTAC SOMS"
- Histosol (pedon (A2)		Loamy Mucky Loamy Gleyer				2 cm Muck (A10) Coast Prairie Redox	v (A46)
Black Hist			Depleted Mate				5 cm Mucky Peat of	• /
I —	Sulfide (A4)		Redox Dark S	* -			Dark Surface (S7)	1 (65)
	Layers (A5)		Depleted Dark		١.		Polyvalue Below St	uface (SA)
	Below Oark Surface (A	11)	Redox Depres	=	,		Thin Dark Surface (
ı— ·	k Surface (A12)	• • • •		20.0(.0 (. 0)			Iron-Manganese Me	• •
	ıcky Mineral (S1)						Red Parent Materia	
	eyed Matrix (S4)						Very Shallow Dark	1 '
Sandy Re	•						Other (Explain in Re	emarks)
	Matrix (S6)							
*Indicators of h	ydrophytic vegetation	and wettand h	ydrołogy must be presi	ent, uniess di	sturbed or po	oblemetic.		
Restrictive Lay	/er (if observed);							
Type:								L
Depth (inc	hes):						is Hydric Soll Present?	Yes No /
Remarks:	,	η.			()		ond sile dital	
	تدسماج	50,15	w/ i~	MAIN	thing is	F	000 31-6 61116	
	•							
L		-						
HYDROLOG	Υ							
Wettand Hydrol	oov Indicators:						Secondary Indicator	rs (minimum of two required)
	ors (minimum of one is	required; che	ck all that apply)				Surface Soil	
Surface V				ed Leaves (B	9)		Orainage Pa	tterns (810)
High Wate	er Table (A2)		Aquatic Faul	na (B13)			Moss Trim L	ines (B16)
Seturation	n (A3)		Mart Deposit	bs (B15)		.4	Dry-Season	Water Table (C2)
Water Ma				uffide Odor (C		∪€ i	Crayfish Bur	
_	Deposits (B2)			izospheres or	_	s (C3)		Sible on Aerial (magery (C9)
Drift Depo	or Crust (84)			Reduced Iron Reduction in	` '	CA)		tressed Plants (D1) Position (D2)
fron Depo	` · ·		Thin Muck S		Tilled Sons (50)	Shallow Agu	
	n Visible on Aerial Imag	erv (B7)	—	un in Remark	s)			aphic Relief (D4)
	Vegetated Concave Su		_ ` .		•		X FAC-Neutral	Test (D5) 1/1 = 1002
Fleid Observat	daga.					т		
Surface Water I	· ·	s No	Depth (inc	hae\-		_ ~		
Water Table Pro					-	•		
Saturation Pres						ls Wet	tand Hydrology Present?	Yes X No
(Includes capille				<u> </u>				
Describe Recor	ded Data (stream gaug	e, monitoring	well, aerial photos, pre	evious inspec	tions), if aval	lable:		
Remarks:	~		Start of the	./.\				
(Danie - 104 - 1500	19 E						

WETLAND DETERMINATION DATA FORM - Northcentrel and Northeast Region Beloit Pock Project/Site: Grandy Business Park City/County: Sampling Date: 10/12/12 Applicant/Owner City of Bulsing . Sampling Point Investigator(s): TAWS - A Man 9 5 Section, Township, Range: SZX TIN R136 Landform (hillstope, terrace, etc.): K. (Zh. Zc., Local relief (concave, convex, none): Soil Map Unit Name: Plano Sittleam WWI classification: Are climatic/hydrologic conditions on the site typical for this time of year? Reason: 20-4 Are Vegetation _ _____soil ______ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation _____, Soil _____ or Hydrology _____problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Yes ___ Hydrophytic Vegetation Present? is the Sampled Area within Hydric Soil Present? Wetland Hydrology Present? Yea If yes, optional Wetland Site ID: Remarks: **VEGETATION** - Use scientific names of plants. Dominance Test worksheet: Absolute % Dominant Indicator Tree Stratum (Plot size; equiv to 30' radius) Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Streta: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) = Total Cover Sapling/Shrub Stratum (Plot size: equiv to 15' radius) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species FACW species FAC species FACU species

OIL						Sampling Point
ofile Description: (Describ	e to the depth nee	ded to document the indic	ator or confirm the	absence of	Indicators.)	
epth	Matrix	Redox Features				
Color (mo		Color (moist)	% Type*	Loc2	Texture	Remarks
In the state of th	.7	- Color (Molecy	7,750			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0-10 10721	B 100				John /cong	
'						
ma: CaCanacatmitian DaG	DIA-Codu	and Mathy CC=Counted as	Cantad Cond Carlon		2 another: El	#Poss Linian Al-Matrix
	_	ced Matrix, CS=Covered or	COSTED SAILE CRAINS.			.×Pore Lining, M=Matrix.
dric Soil Indicators: (For i	JAK K)) annu Bhunku Mi	inami (E1)		Indicators for Problema	uc rryanc sons
_ Histosol (A1)		Loamy Mucky Mi			2 cm Muck (A10)	(A 4 B)
Histic Epipedon (A2)		Loamy Gleyed M			Coast Prairie Redo	` '
Black Histic (A3)		Depleted Matrix Redox Dark Surf	• •		5 cm Mucky Peat of	x Peat (33)
_ Hydrogen Suffide (A4) Stratified Layers (A5)					Dark Surface (\$7) Polyvalue Below S	udana (CB)
Stratified Ealow Dark Su	ofices (Add)	Depleted Dark S Redox Depression	, .		Thin Dark Surface	
Thick Dark Surface (A12	, ,	REGIOX DESIGNATION	363 (FB)		Iron-Manganese M	
Sandy Mucky Mineral (S	-				Red Parent Materia	
Sandy Gleyed Matrix (S4	•				Very Shallow Dark	
Sandy Redox (S5)	,				Other (Explain in R	
Stripped Matrix (S6)						,
ndicators of hydrophytic veg	haelteur bas antitete	hudmings must be present	unless disturbed or r	unhiamatic.		
		.,,,			-	
sstrictive Layer (if observe	۵۱,					
Type:					is Hydric Soil Present	? Yes No
					is nythic soil Fresenit	7 165
emarks:	*					
(Ipland S:	≥ (
	cly is et al.					
			•			
YDROLOGY						
stland Hydrology Indicators:					Secondary Indicate	ors (minimum of two required)
imary Indicators (minimum o	one is required: ct	neck all that apply)			Surface Soi	Cracks (98)
Surface Water (A1)		Water-Stølned	Leaves (B9)		Drainage Pa	attems (810)
High Water Table (A2)		Aquatic Fauna			Moss Trim	
Saturation (A3)		Mart Deposits (Water Table (C2)
Water Marks (B1)		Hydrogen Sulfid		··· (C3)	Crayfish Bu	
Sediment Deposits (82)		_	spheres on Living Ro sduced (ron (C4)	oes (C3)		Visible on Aerial Imagery (C9) Stressed Plants (O1)
Drift Deposits (B3) Alget Mat or Crust (B4)		_	duction in Tilled Soils	(C6)		5 Position (D2)
Iron Deposits (B5)		Thin Muck Surf		(00)	Shallow Aq	
Inundation Visible on As	rial Imagery (B7)	Other (Explain	, ,			raphic Reflet (D4)
Sparsety Vegetated Coл.	•		•		FAC-Neutra	
old Observations:	V	N- 1 - 1 - 1 - 1	- 1 .			
rface Water Present?		No Depth (inches		-		
eter Table Present?		No No Depth (inches	·	_	Mand Lhudanta — Para4	? Yes No
duration Present? cludes capillary fringe)	Yes1	No Depth (inches	P).	- RE WAS	tland Hydrology Present	? Yes No_!
escribe Recorded Data (street	am gauge, monitorir	ng well, aerial photos, previo	ous inspections), if av	ailable:		-
, , , , , , , , , , , , , , , , , , ,						
						<i>t</i>
emarks:		i known i	er year in the same	e	a by the rate	1
Night-	V. A. 186	14 Jugara	- Ent. 7076731	W		
٥,	0	on the state				
adjo	unt M	mi grasseriti				

_ ^				+ R = 10 / 17 17 17 17 17 17 17 17
(1)	7(0:1) 1	(1) Gity/County:		
Applicant/Owner: 11 of total				State: WF Sampling Point: 7
Investigator(s): TAWS- Mile Than 10 50-		Section		Range: S3Z TIN R13F
Landform (hillstope, terrace, etc.): tog of s Soil Map Unit Name: Ring wood sitt			Local	relief (concave, convex, none):
Are climatic/hydrologic conditions on the site typical for this ti		Yes	No X	Reason: 400000
	-		140	
Are Vegetation, Soil, or Hydrology Are Vegetation , Soil, or Hydrology				Are "Normal Circumstances" present? Yes X No
SUMMARY OF FINDINGS - Attach site map showing	-		, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes N	0) (
	° 4		the Sampi Netland?	ed Area within
				onal Wetland Site ID:
Remarks:				
VEGETATION - Use scientific names of plants.				
	45 a 5 d a 64	Davidani	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 30' radius)	Absolute % Cover	Dominant Species?	Status	
1				Number of Dominant Species That Are OBL, FACW, or FAC; (A)
2.				Total Number of Davidson Associate
3.				Total Number of Dominent Species Across All Streta: (B)
4				Country of Parallel Street Parallel That Are
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/8)
		= Total Cover		
Sapling/Shrub Stratum (Piot size: equiv to 15' radius)				Prevalence Index worksheet
1				Total % Cover of: Multiply by:
2				OBŁ species x1 =
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
6				UPL species x 5 =
7				Cofurm Totals: (A)(B)
		= Total Cover		Prevalence Index = 8/A =
Herts Stratum (Plot size: equiv to 5' radius)	100		. ~	Hydrophytic Vegetation (ndicators:
1. Zea May 5	100		ht	Rapid Test for Hydrophytic Vegetation
2				Dominance Test is >50%
3				Prevalence Index is ≤3.01
4				Morphological Adaptations¹ (Provide supporting data in Remarks)
5.				Problematic Hydrophytic Vegetation¹ (Explain)
6.				Indicators of hydric soil and welland hydrology must be present, unless
7				disturbed or problematic.
8,				Definitions of Vegetation Strata:
9.				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (OBH), regardless of height.
10.				Height (ODA), regardless is neight.
Woody Vine Stratum (Plot size: equiv to 30' radius)		□ Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall,
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and
2.				woody plants less thaл 3.28 ft tall.
3.				Woody vines - All woody vines greater than 3.28 ft in height.
		= Total Cover		Is Hydrophytic Vegetation Present? Yes No
Remarks:			_	

Profile benchyston: (Beachte to the depth needed to document the indicator or confirm the absence of indicators.) Depth Markin Redoc Features (Inchar) Cotic (most) 54 Color (molts) 75 Type* Loc* Tenture Remarks O=13** In Ype* 13 (n=2**) Color (molts) 75 Type* Loc* Tenture Remarks Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Todactions for Problematic Lydins Salor. Type: C=Concertation, D=Depleton, RN-Reduced Markin, CS=Coverned or Coated Sand Grains. Todactions for Problematic Lydins Salor. Todactions for Problematic Color. Todactions for Foreign Fore	Profile Descrip	office: /Describe to the	denth needed	to document the lo	vileator or con	firm the al	ntance of	indicators)	Sampling Point			
Color (moist) Scilor (moist) Scilo	•	,	nabol liaguad				ABBITCE OI	якисашіа.)				
Type: C-Concentration, D-Depleton, RM-Reduced Metrix, CS=Covered or Coated Sand Grains. Type: C-Concentration, D-Depleton, RM-Reduced Metrix, CS=Covered or Coated Sand Grains. Total Indicators: (For LRR K)			 _			Ţvpe'	Loc	Texture	Remarks			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Tide: Soil Indicators: (For LRR K) Histoca (A1) Loamy Mileyd Mineral (F1) Black Hatte (A3) Loamy Gleyd Matrix (F2) Coast Prurise Redox (A16) Black Hatte (A3) Black Hatte (A3) Black Hatte (A3) Depleted Matrix (F3) Stratified Layers (A5) Stratified Layers (A5) Depleted Dark Surface (A11) Redox Dark Surface (F7) Thick Dark Surface (A11) Redox Dark Surface (F7) Thick Dark Surface (A12) Sandy Micoly Mineral (S1) Sandy Micoly Mineral (S1) Sandy Cleyd Matrix (S4) Sandy Rodox Matrix (S8) Stripped Matrix (S8) Depth (Inches): Type: Depth (Inches): Versand Hydrology Indicators: **VPROLOGY** Weldand Hydrology Indicators: **VPROLOGY** **Velog				00.0. (110.00)		.,,,,,			(101)2112			
Helicators For LRR K Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Gleyed Metrix (F2) Loemy Gleyed Metr	0-13	10 189 13	<u> </u>					SITOAW	·			
Notice Stoll Indicators: For LRR K												
Helicators For LRR K Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Gleyed Metrix (F2) Loemy Gleyed Metr												
Helicators For LRR K Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Gleyed Metrix (F2) Loemy Gleyed Metr												
Indicators for Problematic Hydric Solis* Indicators for Problema												
Notice Stoll Indicators: For LRR K												
Helicators For LRR K Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Mucky Minorial (F1) Loemy Gleyed Metrix (F2) Loemy Gleyed Metr												
Notice Stoll Indicators: For LRR K												
Notice Stoll Indicators: For LRR K												
Indicators for Problematic Hydric Solis* Indicators for Problema	Type: C=Conc	centration, D=Depletion,	RM=Reduced	Metrix, CS=Covered	or Coated San	d Grains.		*Location:	PL=Pore Lining, M=Matrix.			
Helsic Epipedon (A2) Black Helsic (A3) Depleted Matrix (F3) Black Helsic (A3) Depleted Matrix (F3) Depleted Depleted Matrix (F3) Depleted Depleted Matrix (F3) Depleted Depleted Matrix (F3) Depleted Deplet								Indicators for Problem	natic Hydric Soils*:			
Silback Histite (A3) Depleted Metrix (F3) S cm Mucky Peat or Peat (S3) Hydrogen Sulfide (A4) Redox Dark Surface (F6) Oark Surface (F7) Polyvelbue Below Surface (S8) Third Dark Surface (S8) Polyvelbue Below Surface (S8) Third Dark Surface (S8) Surface (S8) Third Dark Surface (S8) Surface (S8) Surface (S8) Third Dark Surface (S8) Surfac	Histosol ((A1)		Loamy Mucky	Mineral (F1)			2 cm Muck (A10)			
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Redox Depressions (F8) Thir Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S8) Iron-Manganese Masses (F12) Red Parent Material (TF2) Very Shellow Derk Surface (FF12) Other (Explain in Remarks) Stripped Matrix (S8) Indicators of hydrochytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (If observed): Type: Depth (inchea): Is Hydric Soil Present? Yes No Admarks: **Primary Indicators: **Primary Indicators: (minimum of one is required: check all that apphy) Matrix Table (A2) Aquatic Fauru (813) Moss Trim Linias (816) Surface Volter (A1) High Water Table (A2) Aquatic Fauru (813) Means Trim Linias (816) Dry-Season Water Table (C2) Sadiment Deposits (82) Onth Deposits (83) Presence of Reducted from (C4) Sadiment Deposits (83) Free factories (84) Free factories (85) Free factories (85) Free factories (86) Free factories (8	Histic Epi	ipedon (A2)	_	Loamy Gieyer	d Matrix (F2)				` '			
Stratified Layers (A5)												
Depleted Below Dark Surface (A11) Thin Cark Surface (A12) Thic Dark Surface (A12) Thic Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Mathx (S4) Solid Present Material (TF2) Very Shellow Dark Surface (TF12) Sandy Redox (S5) Stripped Mathx (S6) Profile Mathx (S6) Profile Mathx (S6) Profile Mathx (S6) Stripped Mathx (S									,			
Trick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S8) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Depth (inches): Secondary Indicators (minimum of two required)												
Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S8) **Indicators of Inydrophytic vegetation and welfand hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Is Hydric Soli Present?			'' -		ssions (Fo)							
Sandy Gleyed Matrix (S4) Sendy Redox (S5) Stripped Matrix (S8) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Depth (inches): Depth (inches): Depth (inches): Secondary Indicators (minimum of two required) Surface Soil Cracks (88) Surface Soil Cracks (. ,						<u> </u>				
Stripped Matrix (S8) **Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (if observed): Type: Depth (inches): Netland Hydrology Indicators: **Remarks: **Netland Hydrology Indicators: **Remarks: **Netland Hydrology Indicators: **Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Matr Deposits (B13) Moss Trim Lines (B16) Saturation (A3) Water Marks (B1) Hydrogen Sulfied Odor (C1) Sadiment Deposits (B2) Drift Deposits (B2) Drift Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Shalino Aerial Imagery (B8) Depth (Inches): Depth (Inches): Substraction (Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Secondary Indicators (minimum of two required) Surface (B1) Surface (B1) Moss Trim Lines (B16) Dry-Season Water Table (C2) Cranifies Dry-Season Water Table (C2) Cranifies Dry-Season Water Table (C2) Shaline Of Stressed Plants (D1) Shaline Of Stres								Very Shallow Da	rk Surface (TF12)			
**Prodicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. **Restrictive Layer (iff observed): Type: Depth (inches): Secondary Indicators:	Sandy Re	edox (S5)						Other (Explain in	ı Remarks)			
Restrictive Layer (if observed): Type: Depth (inches): HyDROLOGY	Stripped	Matrix (S6)						_				
Type: Depth (inchea): No Nemarks:	*Indicators of I	hydrophytic vegetation a	nd wettand hyd	rology must be prese	ent, unless dist	urbed or pr	oblematic.					
Depth (Inches): Itell Hydric Soll Present? Yes No	Restrictive Lay	yer (if observed):										
HYDROLOGY Netland Hydrology Indicators: Secondary Indicators (minimum of two required) Surface Soil Cracks (88) Surface Water (A1) High Water Table (A2) Saturation (A3) Marl Deposits (813) Marl Deposits (813) Seturation (A3) Marl Deposits (813) Marl Deposits (813) Seturation (A3) Marl Deposits (813) Moss Trim Lines (816) Sediment Deposits (82) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Iron Deposits (83) Presence of Reduced Iron (C4) Sharlad for Crust (84) Iron Deposits (85) Thin Muck Surface (C7) Sharlad No Aguitard (D3) Inundation Visible on Aerial Imagery (87) Sparsely Vegetatad Concave Surface (88) FAC-Neutral Test (D5) Present? Yes No Depth (Inches): Marcrotopographic Relief (D4) FAC-Neutral Test (D5) Reducted Experim? Yes No Depth (Inches): Is Wettand Hydrology Present? Yes No Depth (Inches): Is Wettand Hydrology Present? Yes No Depth (Inches): Is Wettand Hydrology Present? Yes No Depth (Inches): Includes capillary fringe)	Type:	-										
HYDROLOGY Netland Hydrology Indicators: Primary Indicetors (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitistrd (D1) Algal Mat or Crust (B4) Inundation Visible on Aerial Imagery (B7) Sparsety Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No Depth (Inches): Depth (Inches): Depth (Inches): Lis Wetland Hydrology Present? Yes No Depth (Inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Depth (inc	:hes):						Is Hydric Soli Prese	rit? YesNo			
Metiand Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drahage Patterns (B10) Moss Trim Lines (B16) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Prasent? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Sediments: Secondary Indicators (minimum of two required) Surface Soil Cracks (B8) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Other (Explain In Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Secondary Surface Soil Cracks (B9) Drahage Patterns (B10) Moss Trim Lines (B13) Dry-Season Water Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visib	Remarks:								I			
Metiand Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drahage Patterns (B10) Moss Trim Lines (B16) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Prasent? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Sediments: Secondary Indicators (minimum of two required) Surface Soil Cracks (B8) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Other (Explain In Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Secondary Surface Soil Cracks (B9) Drahage Patterns (B10) Moss Trim Lines (B13) Dry-Season Water Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visib												
Metiand Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drahage Patterns (B10) Moss Trim Lines (B16) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Prasent? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Sediments: Secondary Indicators (minimum of two required) Surface Soil Cracks (B8) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Other (Explain In Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Secondary Surface Soil Cracks (B9) Drahage Patterns (B10) Moss Trim Lines (B13) Dry-Season Water Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visib												
Metiand Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drahage Patterns (B10) Moss Trim Lines (B16) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Prasent? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Sediments: Secondary Indicators (minimum of two required) Surface Soil Cracks (B8) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Other (Explain In Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Secondary Surface Soil Cracks (B9) Drahage Patterns (B10) Moss Trim Lines (B13) Dry-Season Water Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visib												
Metiand Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Drahage Patterns (B10) Moss Trim Lines (B16) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Prasent? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Sediments: Secondary Indicators (minimum of two required) Surface Soil Cracks (B8) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Drahage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Saturation Visible on Aerial Imagery (B7) Other (Explain In Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Secondary Surface Soil Cracks (B9) Drahage Patterns (B10) Moss Trim Lines (B13) Dry-Season Water Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (Inches): Saturation Visible on Aerial Imagery (B7) Saturation Visib												
Primary Indicetors (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauma (B13) Water Marks (B1) Water Marks (B1) Dri/Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Presence of Reduced Iron (C4) Iron Deposits (B5) Iron Depo												
Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Mart Deposits (B15) Dry-Season Water Table (C2) Saturation (A3) Mart Deposits (B15) Dry-Season Water Table (C2) Saturation Present? Saturation (A3) Mart Deposits (B15) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Sturted or Stressed Plants (D1) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Thin Muck Surface (C7) Shailow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Spersely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Steld Observations: Surface Water Present? Ves No Depth (Inches): Saturation Present? Ves No Depth (Inches): Saturation Present? Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks: Semarks: Semar	HYDROLOG	SY										
High Water Table (A2) Saturation (A3) Aquatic Fauria (B13) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsety Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table (A2) Aquatic Fauria (B13) Marl Deposits (B15) Dry-Season Water Table (C2) Crayfish Burrows (C8) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (B7) Shallow Aquitard (D1) Inundation Visible on Aerial Imagery (B7) Sparsety Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Pepth (Inches): Depth (Inches): Depth (Inches): Is Wetland Hydrology Present? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Remarks: **Contraction Present** **Contraction Present** **Contraction Present** **Contraction Present** **Contraction Present** **Test (D5) **Contraction Present** **Test (D5) *								Secondary Indic	ators (minimum of two required)			
Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inurdation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) No Depth (Inches): Seturation (Present? Yes No Depth (Inches): Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks: Dry-Season Water Table (C2) Dry-Season Water Table (C2) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Staturation Visible on Aerial Imagery (C9) Shallow Aquitard (D1) Shallow Aquitard (D3) Microtopographic Relief (O4) FAC-Neutral Test (O5) Saturation Present? Yes No Depth (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Settiration Present? Yes No Depth (Inche	Wetland Hydro	logy Indicators;	equired: check	all that apply)								
Water Marks (B1)	Netland Hydro Primary Indicet Surface V	logy Indicators; tors (minimum of one is n Water (A1)	equired; check	Water-Stain				Surface S Drainage	Goil Cracks (B6) Patterns (B10)			
Sediment Deposits (82) Drift Deposits (83) Presence of Reduced Iron (C4) Algal Mat or Crust (84) Iron Deposits (85) Inundation Visible on Aerial Imagery (87) Sparsety Vegetated Concave Surface (88) Field Observations: Surface Water Present? Water Table Present? Ves No Depth (Inches): Saturation Visible on Aerial Imagery (87) Depth (Inches): Saturation Visible on Aerial Imagery (87) Depth (Inches): Saturation Visible on Aerial Imagery (87) Shallow Aquitard (D3) Microtopographic Relief (C4) FAC-Neutral Test (D5) Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Securation P	Wetland Hydror Primary Indicet Surface V High Wat	logy Indicators: pors (minimum of one is n Water (A1) per Table (A2)	equired: check	Water-Stain	na (B13)			Surface S Drainage Moss Tri	Soil Cracks (86) Patterns (B10) In Lines (B16)			
Drift Deposits (83) Algal Mat or Crust (84) Iron Deposits (85) Iron Deposits (85) Inundation Visible on Aerial Imagery (87) Sparsety Vegetated Concave Surface (88) Field Observations: Surface Water Present? Water Table Present? Ves No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Saturation Present? Yes No Depth (Inches): Is Wetland Hydrology Present? Yes No Sopritoring well, serial photos, previous inspections), if available: Remarks:	Wetland Hydro Primary Indicet Surface V High Wat Saturation	logy Indicators: pors (minimum of one is not Water (A1) ter Table (A2) on (A3)	equired: check	Water-Staine Aquatic Fau Mart Deposit	na (B13) ta (B15)			Surface s Drainage Moss Tri Dry-Seas	Soil Cracks (B6) Patterns (B10) In Lines (B16) on Water Table (C2)			
Algal Mat or Crust (84) Iron Deposits (85) Iron Deposits (85) Inundation Visible on Aerial Imagery (87) Sparsety Vegetated Concave Surface (88) Feld Observations: Surface Water Present? Water Trable Present? Yes No Depth (Inches): Seturation Present? Yes No Depth (Inches): Seturation Present? Output (Inches): Seturation Present? Output (Inches): Is Wetland Hydrology Present? Yes No Depth (Inches): Is Wetland Hydrology Present? Yes No Depth (Inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available:	Wetland Hydro Primary Indicet Surfaces V High Wat Saturation Water Ma	logy Indicators: cors (minimum of one is not Water (A1) ter Table (A2) on (A3) arks (B1)	equired: check	Water-Stain Aquatic Fau Mart Deposi Hydrogen St	na (B13) ta (B15) ulfide Odor (C1))	e (C3)	Surface S Drainage Moss Tri Dry-Seas Crayfish	Soil Cracks (B6) Patterns (B10) In Lines (B16) In Water Table (C2) Burrows (C8)			
Iron Deposits (85)	Primary Indicet Surface V High Wat Saturation Water Ma	logy Indicators: lors (minimum of one is not Water (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2)	equired: check	Water-Stain Aquatic Fau Marl Deposi Hydrogen St	ina (B13) ta (B15) ultida Odor (C1) izospheres on l) Living Root	is (C3)	Surface Surface Oralwage Moss Tri Dry-Seas Crayfish Saturatio	Soil Cracks (B6) Patterns (B10) In Lines (B16) In Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)			
Inundation Visible on Aerial Imagery (87) Sparsety Vegetated Concave Surface (88) Cher (Explain In Remarks) Microtopographic Relief (04) FAC-Neutral Test (05) Factorial Test (05) Depth (Inches): Surface Water Present? Ves No Depth (Inches): Saturation Present? Yes No Depth (Inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks:	Primary Indicet Surface V High Wat Saturation Water Ma Sediment	logy Indicators: logs (minimum of one is a Water (A1) ter Table (A2) or (A3) arks (B1) t Deposits (B2) osits (B3)	equired: check	Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh	ina (B13) ta (B15) ulfide Odor (C1) inzospheres on l I Reduced Iron () Living Root (C4)		Surface Surface Surface Moss Tri Dry-Seas Crayfish Saturatio Sturited (Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Streased Plants (D1)			
Field Observations: Surface Water Present? Yes No Depth (Inches): Water Table Present? Yes No Oepth (Inches): Saturation Present? Yes No Oepth (Inches): Is Wetland Hydrology Present? Yes No Security fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks:	Wetland Hydroi Primary Indicet Surface V High Wat Saturatio Water Ma Sediment Drift Depo	logy Indicators: logs (minimum of one is not set of the immum of the	equired: check	Water-Stain Aquatic Fau Aquatic Fau Mar! Deposi Hydrogen St Oxidized Rh Presence of Recent Iron	ina (B13) ita (B15) utifide Odor (C1) izospheres on l I Reduced Iron (Reduction in Ti) Living Root (C4)		Surface Surface Surface Moss Tri Dry-Seas Crayfish Saturation Sturited (Geomory	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Streased Plants (D1) Into Position (D2)			
Surface Water Present? Water Table Present? Yes No Depth (Inches): Out (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks:	Wetland Hydroi Primary Indicet Surface V High Wet Saturation Water Ma Sediment Drift Depo	logy Indicators: tors (minimum of one is not in the continuous of one is not in the continuous of one is not in the continuous of the cont		Water-Stain Aquatic Fau Aquatic Fau Mar! Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) ita (B15) utifide Odor (C1) izospheres on I I Reduced Iron (Reduction in Ti Surface (C7)) Living Root (C4) Ided Solls (Surface Surface Moss Tri Dry-Seas Crayfish Saturatio Stunted Geomory Shellow	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Adultard (D3)			
Surface Water Present? Water Table Present? Yes No Depth (Inches): Out (Inches): Depth (Inches): Saturation Present? Yes No Depth (Inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks:	Wetland Hydroi Primary Indicet Surface V High Wet Saturation Water Me Sediment Drift Depo Algal Mat	logy Indicators: tors (minimum of one is noted (A1) Nater (A1) or (A3) arks (B1) t Deposits (B2) oris (B3) t or Crust (B4) oritis (B5) or Visible on Aerial Image	ery (87)	Water-Stain Aquatic Fau Aquatic Fau Mar! Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) ita (B15) utifide Odor (C1) izospheres on I I Reduced Iron (Reduction in Ti Surface (C7)) Living Root (C4) Ided Solls (Surface Surface Moss Tri Moss Tri Dry-Seas Crayfish Saturatio Stunted Geomory Shellow Microtop	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inchic Position (D2) Aquitard (D3) Ingraphic Relief (D4)			
Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, serial photos, previous inspections), if available: Remarks:	Wetland Hydrot Primary Indicet Surface V High Wat Saturation Water Ma Sediment Drift Dept Algal Mat Iron Depc Inundation Sparsety	Acgy Indicators: tors (minimum of one is not to the is not	ery (87)	Water-Stain Aquatic Fau Aquatic Fau Mar! Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) ita (B15) utifide Odor (C1) izospheres on I I Reduced Iron (Reduction in Ti Surface (C7)) Living Root (C4) Ided Solls (Surface Surface Moss Tri Moss Tri Dry-Seas Crayfish Saturatio Stunted Geomory Shellow Microtop	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inchic Position (D2) Aquitard (D3) Ingraphic Relief (D4)			
Includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Wetland Hydroi Primary Indicet Surface V High Wat Saturation Water Ma Sediment Drift Depx Algal Mat Iron Depc Inundation Sparsely	logy Indicators: tors (minimum of one is not minimum of one is not make (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf	ery (87) face (88)	Water-Stain Aquatic Fau Aquatic Fau Mar! Deposi Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ina (B13) ta (B15) ta (B15) utilide Odor (C1) izospheres on li r Reduced Iron (Reduction in Ti surface (C7) sin in Remarks)) Living Root (C4) Ided Solls (Surface Surface Moss Tri Moss Tri Dry-Seas Crayfish Saturatio Stunted Geomory Shellow Microtop	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inchic Position (D2) Aquitard (D3) Ographic Rellef (D4)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Wetland Hydrol Primary Indicet Surface V High Wet Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsety Field Observat Surface Water	logy Indicators: tors (minimum of one is not minimum of one is not make (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: Present? Yes	ery (87) face (B8)	Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ina (B13) ta (B15) ta (B15) utilide Odor (C1) izospheres on l Reduced Iron (Reduction in Ti Surface (C7) shin in Remarks)) Living Root (C4) Ided Solls (Surface Surface Moss Tri Moss Tri Dry-Seas Crayfish Saturatio Stunted Geomory Shellow Microtop	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inchic Position (D2) Aquitard (D3) Ographic Rellef (D4)			
Remarks:	Wetland Hydroi Primary Indicet Surface V High Wet Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observat Surface Water Water Table Pr	logy Indicators: tors (minimum of one is not minimum of one is not make (A1) ter Table (A2) on (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: Present? Yes	ery (87) face (B8) No	Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ta (B15) ta (B15) utilide Odor (C1) izospheres on li Reduced Iron (Reduction in Ti Surface (C7) shin in Remarks)) Living Root (C4) Ided Solls (C6)	Surface Surface Moss Triangle Moss Triangle Moss Triangle Crayfish Saturation Stunted Geomory Shellow Microtopy FAC-Neuronal Control of the C	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inic Position (D2) Aquitard (D3) Ingraphic Relief (D4) Itrai Test (D5)			
Remarks:	Wetland Hydrol Primary Indicet Surface V High Wet Saturation Water Me Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsety Field Observat Surface Water Water Table Pr Saturation Pres Includes capille	Accept Indicators: togrs (minimum of one is not seen (A1) ter Table (A2) on (A3) anks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: Present? Yes sent? Yes any fringe)	ery (87) face (B8) 	Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ta (B15) ta (B15) utfide Odor (C1) izospheres on I f Reduced Iron (Reduction In Ti Surface (C7) ein In Remarks) thes):) Living Root (C4) ited Soifs (C6)	Surface Surface Moss Triangle Moss Triangle Moss Triangle Crayfish Saturation Stunted Geomory Shellow Microtopy FAC-Neuronal Control of the C	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inic Position (D2) Aquitard (D3) Ingraphic Relief (D4) Itrai Test (D5)			
Remarks:	Netland Hydrol Primary Indicet Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsety Field Observat Surface Water Water Table Pr Saturation Presidentudes capilla	Accept Indicators: togrs (minimum of one is not seen (A1) ter Table (A2) on (A3) anks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: Present? Yes sent? Yes any fringe)	ery (87) face (B8) 	Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ta (B15) ta (B15) utfide Odor (C1) izospheres on I f Reduced Iron (Reduction In Ti Surface (C7) ein In Remarks) thes):) Living Root (C4) ited Soifs (C6)	Surface Surface Moss Triangle Moss Triangle Moss Triangle Crayfish Saturation Stunted Geomory Shellow Microtopy FAC-Neuronal Control of the C	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inic Position (D2) Aquitard (D3) Ingraphic Relief (D4) Itrai Test (D5)			
	Netland Hydrol Primary Indicet Surface V High Wet Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observat Surface Water Water Table Pr Saturation Presinctudes capilla	Accept Indicators: togrs (minimum of one is not seen (A1) ter Table (A2) on (A3) anks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image Vegetated Concave Surf tions: Present? Yes sent? Yes any fringe)	ery (87) face (B8) 	Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ta (B15) ta (B15) utfide Odor (C1) izospheres on I f Reduced Iron (Reduction In Ti Surface (C7) ein In Remarks) thes):) Living Root (C4) ited Soifs (C6)	Surface Surface Moss Triangle Moss Triangle Moss Triangle Crayfish Saturation Stunted Geomory Shellow Microtopy FAC-Neuronal Control of the C	Soil Cracks (B6) Patterns (B10) In Lines (B16) On Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9) In Stressed Plants (D1) Inic Position (D2) Aquitard (D3) Ingraphic Relief (D4) Itrai Test (D5)			

	WETLAND DETER	MOTTANEME	DATA FORM	- Northce	ntral and Northeast Region
	Bateway Busin	285 P m	City/County:	Belo	
Applicant/Owner:	+ RADIT				State: Sampling Point:
nvestigator(s): TAWS - ATha	-07'dbi		Section		Range: 53 TIN R 13E
_andform (hillslope, terrace, etc.):	400 of 11811			Local	relief (concave, convex, none): : : : : : : : : : : : : : : : : : :
Soil Map Unit Name: 625	sla sitt loka	<u> </u>			WWI classification:
Are climatic/hydrologic conditions or	n the site typical for this ti	me of year?	Yes	No X	Reason COUSHT
Are Vegetation X _ Soil	, or Hydrology	significantly	disturbed?	~	Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil					(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Att	ich site map showing	sampling p	coint locations	s, transect	ts, Important featurea, etc.
Hydrophytic Vegetation Present?	YesN	° \/_	ls	the Sample	ed Area within
Hydric Soil Present?	YesN	°	a	Wetland?	YesNo
Wetland Hydrology Present?		0 /\		If yes, option	orval Wetland Sile (D:
Remarks: (Explain alternative proc	edures here or in a separ	ate report.)			
Lualqu					
VEGETATION - Use scientific r	names of plants,				
		Absolute %	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 34	O' radius)	Cover	Species?	Status	Number of Dominant Species That Are
1.					OBL, FACW, or FAC: (A)
2					
3					Total Number of Dominant Species
4.					Across All Strata: (B)
5.					
6.					Percent of Dominant Species That Are
7.					OBL, FACW, or FAC: (A/B)
			= Total Cover		
Septling/Shrub Streturn (Plot size:	equiv to 15' radius)				Prevalence Index worksheet:
1.					Total % Cover of: Multiply by:
2.					OBL species x1 =
3.					FACW species x 2 =
4					FAC species ×3 =
5.					FACU species x 4 =
6.					UPL species x 5 =
7					Column Totals: (A) (B)
			= Total Cover		Prevalence Index = 8/A =
Herb Stratum (Plot size: equiv to 5	s' radius)				Hydrophytic Vegetation Indicators:
1. Zerkno roin chiblik	- Jun 4-31~	100		NT	Rapid Test for Hydrophytic Vegetation
2					Dominance Test is >50%
3.					Prevalence Index is ≤3.0'
4.	·				Morphological Adaptations¹ (Provide supporting data in
					Remarks or on a separate sheet)
5, 6					Problematic Hydrophytic Vegetation' (Explain)
7					
					Indicators of hydric soil and wetland hydrology must be present,
					unless disturbed or problematic.
					Definitions of Vegetation Strata:
10					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
11 12					height (DBH), regardless of height
		100	- Total Cover		Sapling/strub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall.
	ulv to 30' radius)				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall.
2 3					Woody vines - All woody vines greater than 3.28 ft in height.
			= Total Cover		Is Hydrophytic Vegetation Present? Yes No
Remarks: (Include photo numbers	here or on a separate sh	eet.)			

SOIL							Sampling Point:
Profile Descrip	ption: (Describe to	the depth nee	ded to document the li	ndicator or confirm the	bsence of	Indicators.)	
Depth	Main			Redox Features			
(inches)	Color (moist)	%	Color (moist)	% Type¹	roc,	Texture	Remarks
			Doldi (Mass)			Silt han	/ Comoring
0 - 11	1941-413					A Company	
¹Type: C≃Cond	 centration, D≃Deple	tion, RM=Redu	ced Matrix, CS=Covered	or Coated Sand Grains.		²Location: PL	Pore Lining, M=Matrix.
	dicators: (For LRR					Indicators for Problemati	
Histosol (•	Loamy Muck	y Mineral (F1)		2 cm Muck (A10)	
Histic Epi	ipedon (A2)			Coast Praine Redox	(A16)		
Black His	stic (A3)		Depleted Ma	trix (F3)		5 cm Mucky Peat or	Peat (S3)
Hydroger	n Sulfide (A4)		Redox Dark	Surface (F6)		Dank Surface (S7)	
Stratified	Layers (A5)		Depleted Oar	k Surface (F7)		Polyvalue Below Su	rfece (S8)
Depleted	Below Dark Surface	s (A11)	Redox Depre	essions (F8)		Thin Derk Surface (S ₃)
Thick Oa	rk Surface (A12)		_			Iron-Manganese Me	isses (F12)
Sandy Mi	ucky Mineral (S1)					Red Parent Materia	(TF2)
Sandy G	leyed Matrix (S4)					Very Shallow Dark	Surface (TF12)
Sandy Re	edox (S5)					Other (Explain in Re	emarks)
Stripped	Matrix (S6)						
*Indicators of 8	hydrophytic vegetati	on and wetlend	hydrology must be pres	ent, unless disturbed or p	roblematic.		
Restrictive La	yer (If observed):	_					
Type:	y 0. (0000, 100).						
Depth (inc	thas!					ls Hydric Soil Present?	Yes No X
Remarks:						15 Hydric don't 1666mt	
HYDROLOG							
Wettend Hydro	logy (ndicators:					Secondary Indicator	(minimum of two required)
•	tors (minimum of on	e is required: ct	seck all that apoly)			Surface Soil	
Surface V	Nater (A1)		Water-Stair	ed Leaves (89)		Drainage Pa	tterns (B10)
	ter Table (A2)		Aquatic Fau			Moss Trim L	
Saturation			Mari Depos				Water Table (C2)
Water Ma	ਬਨਲ (छा) t Deposits (82)			lulfide Odor (C1) rizospheres on Living Ro	vis (C3)	Crayfish Buri	sible on Aenal Imagery (C9)
	osits (B3)			Reduced Iron (C4)	()		tressed Plants (D1)
	(P4) teuro no t		Recent Iron	Reduction in Tilted Soils	(C6)	Geomorphic	Position (D2)
	osits (85)			Surface (C7)		Shallow Aqu	
	on Visible on Aerial I Vegetated Concave		Other (Expl	ain in Remarks)		FAC-Neutral	phic Relief (D4) Test (D5)
Field Observat	tions:			-			
Surface Weter			lo Depth (inc		_		
Water Table Pr Saturation Pres			lo Y Depth (inc		- _{[a} Woot	land Hydrology Present?	Yes No
Cathadon F103	grant II. T		10 / C DODUI (III)	······································	_ "3 ***	I I DO O O O O O O O O O O O O O O O O	

Remarks

(includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

dicant/Owner: <u>City of Beloit</u> subjector(s): TAWS- Mill Thompson		Section	ı, Township,	State: VI Sampling Point: 17 Range: 5 33 T P 13 E
dform (hillslope, terrace, etc.): M, & S)				retief (concave, convex, none): 14~9 \rightarrow
Map Unit Name: Plano Silt Make	~			WWI classification: drawceway link-ith
climatic/hydrologic conditions on the site typical for this	time of year?	Yes	No X	Reason: drought overland
Vegetation, Soil, or Hydrology	_significantly	disturbed?	·	Are "Normal Circumstances" present? Yes No
Vegetation Soll or Hydrology	_problematic	?		— <i>/</i> ~
MMARY OF FINDINGS - Attach sits map showin	g sampling p	oint location	s, transecti	s, important features, etc.
rdrophytic Vegetation Present? Yes	No ∖r			
	No V	I	une sample Wetland?	of Area within Yes No
	No A		If yes, aptic	rigil Wetland Site ID:
	teas	+1.1		1 (1000)
Area not formal ~ 30-5041.				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and das	1, N. L.	. cut.	Shallow with the Court (Bore &
2				
EGETATION - Use scientific names of plants.	ducyany	t-, -,,	٠, ٠,•	11 - fu fill off six
	Absolute %	Dominant	Indicator	Dominance Test worksheet:
ee Stratum (Plot size, equiv to 30' radius)	Cover	Species?	Status	Number of Dominant Species That Are
in and			FACW	OBL, FACW, or FAC: (A)
Pronos sector			FALU	Total Number of Dominant Species
				Across All Strate: (8)
				Second of Deminant Consider That Ass
•				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	90	= Total Cover	45/ 18	
pling/Shrub Stratum (Plot size: equiv to 15' radius)			ן און גרי	Prevalence Index worksheet:
Per 1/4/05 - 1-	_ <u>3</u>	$\overline{}$	Upl	Total % Cover of: Multiply by:
Lovices thetholo	10	\mathcal{N}_{l}	Upl	OBL species x 1 =
		-		FACW species x 2 =
				FAC species x3=
	_			FACU species x 4 =
				UPL species x 5 =
		= Total Cover	20 0	Column Totals: (A)(B) Prevalence Index = B/A =
arb Stretum (Plot size: equiv to 5' radius)	- GL	- 1022 00001	1.18	Hydrophytic Vegetation Indicators:
Allana petilato	8	M	FACU	Rapid Test for Hydrophytic Vegetation
Time it at home	2 ₀		Facu	Dominance Test Is >50%
Frams cother to	10.		FAC	Prevalence Index is ≤3.0¹
			Fuc	
	- - 5			Morphological Adaptations* (Provide supporting data in Remarks)
Solanom dilcamara	- 15		5~C	Problematic Hydrophytic Vegetation' (Explain)
Aritim mays			190	Yndicators of hydric soil and wettend hydrotogy must be present, unless disturbed or problemetic.
				Definitions of Vegetation Strate:
				Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height.
	136	= Total Cover	675/27	Sapling/shrub - Woody plants less than 3 in. DBH and greater than
oody Vine Stratum (Plot size: equiv to 30' radius)			. , , ,	3.28 (1m) 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.
		■ Total Cover		Is Hydrophytic Vegetation Present? Yes No
marks;				

Profile Descrip	otion: (Describe to the	depth neede	d to document the in	dicator or co	enfirm the ab	sance of	indicators.)	
Depth	Matrix		Redox Featur				,	
(inches)	Color (moist)	%	Color (moist)	%	Type ⁴	Loc²	Texture	Remarks
0-11	10 YE Y 13	100						r./+ 101-
		700				—		1011111
								· · · · · -
			11444 00 0					
 '	centration, D=Depletion Scators: (For LRR K)	, KW=Kedncek	META, CS=Covered	or Coated Sa	ind Grains.		Indicators for Proble	: PL=Pore Linkog, M=Matrix.
Histosof (, ,		Loamy Mucky	Mineral (F1)			2 cm Muck (A1	-
`	pedon (A2)		Loamy Gleyer				Coast Prairie R	•
Black His	tic (A3)		Depleted Mat	лх (F3)			5 cm Mucky Pe	eat or Peat (S3)
Hydrogen	Sulfide (A4)		Redox Dark S	Surface (F6)			Dark Surface (37)
_	Layers (A5)		Depleted Dan)		Polyvalue Belo	,
_ ^	Below Dark Surface (A	11)	Redox Depre	ssions (F8)			Thin Dark Surfi	
_	k Surface (A12)						Red Parent Ma	e Masses (F12)
_	oky Mineral (\$1) eyed Matrix (\$4)						_	erk Surface (TF12)
Sandy Re							Other (Explain	
I—	Metrix (S8)							
*Indicators of I	ydrophytic vegetation a	and wettand hy	rdrology must be prese	ent, unless dis	ntumbed or pro	obiematic.		
Restrictive Lay	/er (if observed):							
Туре:								\checkmark
Depth (inc	hes):						is Hydric Soil Pres	ent? Yes No
Remarks;								
HYDROLOG	<u>.</u>							
							C	
Wetland Hydrol Primary Indicate	ogy maicators: ors (minimum of one is	required; chec	ek all that apoly)					cators (minimum of two required) Soil Cracks (86)
	Vater (A1)	1044100.0100		ed Leaves (B	9)			e Patterns (B10)
	er Table (A2)		Aquatic Fau	. ,				im Lines (B16)
Saturation Water Ma			Mari Deposit	ts (815) ulfide Odor (C	-11			son Water Table (C2) Burrows (C8)
~	Deposits (B2)			zospheres or	-	s (C3)		on Visible on Aerial Imagery (C9)
Drift Depo	osita (83)			Reduced Iron	-	. ,	Stunted	or Stressed Plants (D1)
_	or Crust (B4)			Reduction in	Filled Soils (C	C6)		phic Position (D2)
Iron Depo	isits (195) n Visible on Aerial Imag	en (B7)	Thin Muck S	iumaca (C7) iin in Remank:	z\			Aquitard (D3) pographic Relief (D4)
_	Vegetated Concave Su		0001 (2.000	in in received	•,			utrai Test (DS)
Field Observat	fann (
Surface Water		s No	; Depth (Inc	hes):				
Water Table Pr			\; Depth (inc					\/
Saturation Pres		s No	Depth (inc			is Wet	and Hydrology Pres	ent? Yes No_X
(includes capilla	<u>ary fringe)</u> ded Data (streem gaug	e monttorina	wall genial photos on	with a inenec	ione\ if avail	lahla-		
Desar No Noon	OCC Data (SPOSIII gaug	ic, montoning	well, belief prictos, pri	a wices	JOINS), II AVAI	abre.		
Remarks:			**************************************			2.46		<i>L</i>
in her	ect of in	1 2011	のい。	\	له در هــ	4.0%	,	
2 2	1 = =	· - ·	, , , ,	٠.	00.17		41/200 2	-(10-5) -
4	w 1st ~	2 10	'X ~ '		_ ' ' ' ' ' ' ' '	761	, , ,	
			<u> </u>					
	ssociates Wetland Serv							Regional Supplement (Interim Version)
	1	, A		502		. h.	duna of	かったー
(×120 Durage		,	,		, 1)e	7	12 1211
	proma en	13 - 1914	N / N 19	il was	w	1/ +1	ous mough	but and
D 0	with the same	6-0-12.	to wate	wet b. a	0.513	ratt	472	for site - but does not
	.)	-				1350		

Project/Site: Beloit Gattway Bush		- City/County:		13 1 - 1
Applicant/Owner City of Byloth				State: Sampling Point (0
Investigator(s): TAWS - A Thumpson		Section,	Township,	Range: &4 33 TIN R 13 F
Landform (hillstope, terrace, etc.): h. il. 51 a p	و_		Local	relief (concave, convex, none): +/ ++
Soll Map Unit Name: Plano silt lagm				www.classification: wapped intrictivet
Are climatic/hydrologic conditions on the sits typical for this time	e of year?	Yes	No X	Reason: Areasta Avaderas
Are Vegetation Soil or Hydrology Are Vegetation Soil or Hydrology	problematic?	•		Are "Normal Circumstances" present? Yes X_No
SUMMARY OF FINDINGS - Attach site map showing s		OINT IOCATIONS	, transeci	m, important features, etc.
Hydrophytic Vegetation Present? YesNo Hydric Soil Present? YesNo Wetland Hydrology Present? YesNo	7		Netland?	onal Wetland Site ID:
Remarks: With fith - no of	- 5/s	spes do	1 000	del aren # 9 - No swale or
VEGETATION - Use scientific names of plants. 5-58	ksti=n	of way	loca 1	re- with a uniform
	Absolute %	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 30' radius) 1	Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant Species Across All Strata:(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Straturn (Plot siza: equily to 15' radius)		= Total Cover		Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2.				OBL species x1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5				FACU species x4=
6.				UPL species x5=
7				
		= Total Cover		Column Totals:
Herb Stretum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation Indicators:
1. 1000 5006 - 2. MAYS	100		M	Rapid Test for Hydrophytic Vegetation
2.				Dominance Test is >50%
3,	_			Prevalence index is ≤3,01
4				Morphological Adaptations* (Provide supporting data in Remarks)
5.				Problematic Hydrophytic Vegetation' (Explain)
6.				"Indicators of hydric soil and wettend hydrology must be present, unless
7				disturbed or problematic. Definitions of Vegetation Strate:
8				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
9				height (DBH), regardless of height.
10		= Total Cover		Sapling/shrub - Woody plents less than 3 in. D8H and greater than 3.28 (1m) tall,
1				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				Woody vines - All woody vines greater than 3.28 ft in height.
3		= Total Cover		Is Hydrophytic Vegetation Present? Yes No
Remarks:		- 10481 00481		we characterine and amount it con it is a few from the control of
Uniform 1.11) Stalks				

SOIL	Sampling Point:	10
SOIL	Sampling Point:	1

Profile Descrip	ption: (Describe to th	e depth need	ed to document the in	dicator or co	onfirm the ab	sence of	indicators.)	
Depth	Metrix		Redox Feature	35				
(inches)	Color (moiet)	%	Color (moist)	%	Type ^r	Loca	Yexture	Remarks
0-11	51042413	90					silt lom	
0-11	1	-	-				3111103	
	(101RS/3	73						
			<u> </u>					
					12.			
			ed Matrix, CS=Covered	or Coated Sa	ind Grains.			Pore Lining, M=Matrix.
	dicators: (For LRR K)		1	4.E 1.7E-1			Indicators for Problemati	c Hydric Soks":
Histosol (Loamy Mucky				2 cm Muck (A10)	. (0.40)
_	ipedon (A2)		Loamy Gleyed				Coast Prairie Redox 5 cm Mucky Peat or	• ,
Black His	. ,		Depleted Mair	•			Dark Surface (S7)	Pear (\$3)
	n Sulfide (A4)		Redox Dark S Depleted Dark				Polyvalue Below Su	rfane (CQ)
_	Layers (A5) Selow Dark Surface (A	411)	Redox Depres		,		Thin Dark Surface (• /
	rk Surface (A12)	(11)	Recox Dapies	1310113 (1 0)			iron-Manganese Ma	•
	ucky Mineral (S1)						Red Parent Material	
	leyed Matrix (S4)						Very Shallow Dark S	• •
	edox (\$5)						Other (Explain in Re	
·	Matrix (S6)							,
	` '	and welland i	hydrology must be prese	ant unless dis	sharbed or pro	oblematic		
		4.10 1.0341.0			да, сос от рт			
	yer (if observed):							24
Type: Depth (inc	-hao\-						ls Hydric Soli Present?	Yes No
, ,							- Injulie don riesoner	
Remarks:								
	_							
HYDROLOG	Υ							
Wetland Hydro	logy Indicators:					_	Secondary Indicator	rs (minimum of two required)
	tors (minimum of one i	s required: ch					Surface Soil	. ,
_	Water (A1)		_	ed Leaves (B	9)		Drainage Pa	
_	ter Table (A2)		Aquatic Fau	` '			Moss Trim Li	
Seturatio			Meri Deposit					Water Table (C2)
Water Ms	' '			ulfide Odor (C izospheres o	,	e (C3)	Crayfish Bun	isible on Aerial Imagery (CG)
	t Deposits (B2) osits (B3)		_	Reduced Iron		s (W)		tressed Plants (D1)
_	t or Crust (B4)		_	Reduction in		26)		Position (D2)
lron Depo			Thin Muck S		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	Shallow Aqu	
	m Visibile on Aerial Ima	igery (B7)		in in Remark	s)		Microtopogra	aphic Relief (D4)
	Vegetated Concave S		~				FAC-Neutral	Test (D5)
Elold Obgons	Monas							
Field Observa Surface Water		es N	o \/ Depth (inc	hae\-				
Water Table P		esN es N		-		1		
Saturation Pres		es N				1s West	iand Hydrology Present?	Yes No X
(includes capill								
		ge, monitorin	g well, æeriat photos, pre	evious inspec	tions), if avai	lable:		
Remarks:	, f t.		471		den !	Santa Le	420	
	Will Fills		600 from 12	- wa	ودور ومواطعي			

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Beloit Garany Busins.	3 Purter o	City/County:	Belon	Sampling Date: 8/12/12
Applicant/Owner Cty of Belait				State: VI Sampling Point:
nvestigator(s): TAWS- A Things	_	Section,	Township,	Range: Sec 32, TIN RI3 E
Landform (hillstope, terrace, etc.): > 10 ma. 43 b	ase of sist	rc.	Local	relief (concave, convex, none):
Soil Map Unit Name: Way conda sixt le				Reason: de vist
Are climatic/hydrologic conditions on the site typical for this	time of year? Y	es	No X	Reason: de yet
Are Vegetation Soil or Hydrology				Are "Normal Circumstances" present? Yes X No
Are Vegetation Soll or Hydrology				
SUMMARY OF FINDINGS - Attach site map showing		locations	. transect	s, important features, etc.
	No —		the Sample Vetland?	ed Area within YesNo
		"		TOS PO
Wetland Hydrology Present? Yes				onal Wetland Site ID:
Folmer P-C area or	h&c?	ر ۱۰۰ المجدورة	. 100	endry may is hydric material soils
VEGETATION - Use scientific names of plants.				
Toron Olympia (Olympia)		ominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 30' radius)	CoverS	pecies?	Status	Number of Dominant Species That Are
1,				OBŁ, FACW, or FAC:(A)
2				Total Number of Dominant Species
3				Across All Strata:(B)
4				Percent of Dorminant Species That Are
S				O8L, FACW, or FAC: (A/B)
	= 7	otal Cover		
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)				Prevalence Index worksheet:
1,				Total % Cover of: Multiply by:
2.				OBL species x1 =
3	—— —			FACW species x 2 =
4				FAC species x 3 =
5.				FACU species x 4 =
в.				UPL species x 5 =
7				Column Totals: (A)(B)
··	= T	otal Cover		Prevalence Index = B/A =
Herti Stratum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation indicators:
1. Coin souther Zen Mays	100		NI	Repld Test for Hydrophytic Vegetation
2.				Dominance Test Is >50%
3.				Prevalence Index is ≤3,01
				_
4				Morphological Adaptations¹ (Provide supporting data in Remarks)
5				Problematic Hydrophytic Vegetation' (Explain)
8				*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				
9				Tree - Woody plants 3 in. (7.8cm) or more in diameter at breast height (DBH), regardless of height.
10				_
Woody Vine Streatum (Plot size: equiv to 30' radius)	= T	otal Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall.
1.				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tell.
2. 3.				Woody vines - All woody vines greater than 3.28 ft in height.
	= T	otal Cover		Is Hydrophytic Vegetation Present? Yes No
Remarks:	The real			· · · · · · · · · · · · · · · · · · ·
remains.	10.00			

SOIL								Sampling Point	
Profile Descrip	tion; (Describe to th	e depth neede	d to document the Inc	Scator or con	firm the abs	ence of k	ndicators.)		
Depth	Metrix	-	Redox Feature	q			-		
(inches)	Color (moist)		Calar (maist)	%	Type¹	Loc²	Texture	Remarks	
	- 1		CODI (IIDIO)	 ·	1,500			T/GIJIGI KS	
D- 15	10 YF 1/13	<u> 165 _</u>					Sitt 101.00		
		. — — —							
		. — — –							
Time: OrConc	entration DerDaniation	n BMsSadiva	d Matrix, CS=Covered	or Costed San	1 Crains		il acation: Di -	Pore Lining, M=Matrix.	
	lcators: (For LRR K)		O INSIDIA, CO-COVERED	or coated dam	J CHAINS.		Indicators for Problemati		
Histosof (A			Loamy Mucky	Mineral (E4)			2 cm Muck (A10)	c riyunc sons .	
·	pedon (A2)		Loamy Gleyed				Coast Prairie Redox	/ /A1R)	
Black Hist			Depleted Matri				5 cm Mucky Peat or	` '	
	Sulfide (A4)		Redox Dark Si	•			Dark Surface (S7)	7 Bar (03)	
	Layers (A5)		Depleted Dark				Polyvalue Below Su	urfaire (SA)	
	Below Dark Surface (/	Δ11\	Redox Depres	, ,			Thin Dark Surface (* *	
	k Surface (A12)	3(1)		3.01.0 (1.0)			Iron-Manganese Ma	•	
	cky Mineral (S1)						Red Parent Material		
<u> </u>	eyed Matrix (S4)						Very Shallow Dark S	•	
Sandy Re	- , .						Other (Explain in Re		
Stripped N	• •							•	
	• •	and wetland hy	drology must be prese	nt, unless dist.	irbed or prot	blematic.			
-	er (if observed):								
Туре:	ar (ii observeo).								
Depth (incl	heal:						is Hydric Soil Present?	Yes N	b X
Remarks:									·- <u>//</u>
TOMAINO.		C -15							
	100) N-V	5-15							
						_			
HYDROLOG	Y								
Wettand Hydrok	ogy Indicators:						Secondary Indicator	ipper owt two muninim) s	red)
Primary Indicate	is (minimum of one is	s required; chec	ck all that apply)				Surface Soil	Cracks (B6)	
Surface W	,		_	d Leaves (B9)			Drainage Pat		
	er Table (A2)		Aquatic Faun				Moss Trim Li	, ,	
Saturation	•		Man Deposits					Water Table (C2)	
Water Mai	Deposits (B2)		<u> </u>	lfide Odor (C1) :ospheres on L		/C3/	Crayfish Burn	rows (Co) isible on Aerial Imagery ((C4)
Drift Depo			_	Reduced Iron ((03)		tressed Plants (D1)	(08)
	or Crust (B4)			iii noitsubes	-	6)		Position (D2)	
Iron Depos			Thin Muck Si		(-,	Shallow Aqui	• •	
Inundation	Visible on Aerial Ima	igery (B7)	Other (Explai	n in Remarks)			Microtopogra	ophic Relief (D4)	
Spensely \	/egetated Concave Si	urface (B8)					FAC-Neutral	Test (D5)	
Field Observati	lone:								
Surface Water F		es No	\ / Depth (Inch	es).					
Water Table Pre		es No							
Saturation Prese		esNo				la Wetle	and Hydrology Present?	Yes N	lo X
(includes capilla				/-					
		ge, monitoring	well, aerial photos, pre	vious inspectio	ns), If availa	ible:			
Remarks:				/ NRCC					
	C D	/_ /	arth oh	ACDA	10. 2				
	Let with		arth oh	1 12 000	17735				
							1.0	1	
	\	midein	+11(H = 1	Renla	dvinge	-way	1 browne gras	is) upstopl	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

roject/Site: GWIWN/ BUSI	vess Park	City/County	: Belo	+ 12001C Sampling Dat	e: 10/12/12-
	0,4			State: WI Sampling Poli	
estigator(s): TAWS - A	759-	Section	, Township,	Range: Scc. 32, T1	NRISE
dform (hillslope, terrace, etc.):			Local	relief (concave, convex, none):	
Map Unit Name: Warcon				WWi classification: _Ø	
climatic/hydrologic conditions on the	site typical for this time of year	⊮? Yes	NoX_	Reason: drought	
Vegetation, Soil, or				Are "Normal Circumstances" present	? Yes <u>X</u> No
Vegetation, Soil, or	Hydrologyproblems	atic?			
MMARY OF FINDINGS - Attach :	lite map showing samplin	g point location	s, transec	s, important features, etc.	
drophytic Vegetation Present?	Yes No	- 6	the Samol	ed Area within	,
dric Soll Present?	Yes No	/	Wetland?	Yes No	<u> </u>
etland Hydrology Present?	YesNo/	<u> </u>	If yes, opti	onal Wetland Site ID:	
marks:	1 KT - COLO 34	10 1 10 D		1	
GETATION - Use scientific name	es of plants.			Denimon Test and about	
se Stratum (Plot size: equiv to 30' rad	Absolute Tue) Cove		Indicator Status	Dominance Test worksheet:	
,		. Spender	24444	Number of Dominant Species That A	
				OBL, FACW, or FAC:	(A)
				Total Number of Cominant Species	
				Across All Strats:	(B)
				Percent of Dominant Species That A	ne
				OBL, FACW, or FAC:	(A/B)
Name (Charle Charles (Olat sines and		= Total Cover		Sample - Index and the back	
iling/Shrub Stratum (Plot size: equiv	rta 15 naurius)			Prevalence Index worksheet:	43.10
				Total % Cover of:	Multiply by:
				OBL species x	1 =
				FACW species x	2=
				FAC species x	3 =
				FACU species x	4 =
				UPL species x	5 =
				Column Totals: (A	(β)
		= Total Cover		Prevalence Index = B/A =	
to Stratum (Plot size: equiv to 5' radi				Hydrophytic Vegetation Indicators:	
Colo 34.1	(11/2017 100		NI	Rapid Test for Hydrophytic Vegeta	rion .
				Dominance Test is >50%	
				Prevalence Index is ≤3.01	
				Morphological Adaptations* (Provide	ie supporting data in Remarks)
				Problematic Hydrophytic Vegetation	n¹ (Explain)
				*Indicators of hydric soil and wetland hydro disturbed or problematic.	ology must be present, unless
~-				Definitions of Vegetation Strate:	
				Tree - Woody plants 3 in. (7.6cm) or height (06H), regardless of height.	more in diameter at breast
		= Total Cover		Sapling/shrub - Woody plants less th	an 3 in. DBH and greater then
oody Vine Stratum (Plot size; equiv to	•			3.28 (1m) tall. Herb - All herbaceous (non-woody) p woody plants less then 3.28 ft tall.	lants, regardless of size, and
				Woody vines - All woody vines greate	er than 3.28 ft in height.
		- Total Cover		Is Hydrophytic Vegetation Present	? Yes No X
marks: Wuds = 4	var spreid itse.		+~F	day (10 10. (1)	
frame of the	- Nother	- \ . ~ \	, 5-4	Say	

SOIL							Sampling Point 12_
Profile Descri	ption: (Describe to	the depth needs	d to document the in	licator or confirm	the absence of	indicators.)	
Depth	Matrix	<u> </u>	Redox Feature	 _			
(inches)	Color (molst)	%	Color (molst)	%Ty	pe¹ Loc²	Техтие	Remarks
D-14"	5 1048 413	60				sitt loam	
- U-e1						3, 11 11 11	<u> </u>
	(121P3/2	40					
¹Type: C=Con	centration, D=Deptet	on, RM=Reduced	Matrix, CS=Covered	or Coated Sand Gr	ains.	²Location; PL=F	Pore Lining, M=Matrix.
	Scators: (For LRR I					Indicators for Problematic	
Histosoi ((A1)	,	Loamy Mucky	Mineral (F1)		2 cm Muck (A10)	•
Histic Epi	ipedion (A2)		Loamy Gleyed	Matrix (F2)		Coast Prairie Redox ((A16)
Black His	stic (A3)		Depleted Matri	ix (F3)		5 cm Mucky Peat or F	Peat (S3)
Hydroger	s Sulfide (A4)		Redox Dark S	urface (F6)		Oark Surface (S7)	
Stratified	Layers (A5)		Depleted Dark	Surface (F7)		Polyvalue Below Surf	ace (S8)
	Below Dark Surface	(A11)	Redox Depres	sions (FB)		Thin Dark Surface (St	
_	rk Surface (A12)					Iron-Manganese Mas	
_	ucky Mineral (S1)					Red Parent Material (,
	eyed Matrix (S4)					Very Shallow Dark Su	, ,
Sandy Re						Other (Explain in Ren	arks)
	Matrix (S6)		4		4		
		n and webband ny	drology must be prese	nt, uniess disturbed	or problematic.		
	yer (if observed);						
Type:							X
Depth (inc	ches):		_			Is Hydric Soli Present?	
Remarks:			r		677 I	1	١.
	My X15	welly.	of 10 1/2 ,	113 \ 10	TP 3 -	Littly des	6.7
					111 (6. 1)		(.
	12/	inixin.	1. original	5	ge s	list are illi	584 1
		1. 4	Q me		i	that are dig	
HYDROLOG	Ϋ́		A Paris	- Uplans	1 - No 1	~ yox	
Wetland Hydro	logy indicators:					Secondary Indicators	(minimum of two required)
_	ors (minimum of one	is required; chec	k all thet apply)			Surface Soil C	
	Vater (A1)			d Leaves (89)		Drainage Patte	
	ter Table (A2)		Aquatic Faun			Moss Trim Lin	•
Saturation			Mari Deposit	, ,			ster Table (C2)
Water Ma			′ •	lfide Odor (C1)	Doots (C3)	Crayfish Burro	• /
Sedimen	l Deposits (B2)		_	zospheres on Living Reduced iron (C4)	1 KOOB (C3)		ible on Aerial Imagery (C9)
	tor Crust (B4)		_	Reduction in Titled (Soils (C6)	Geomorphic P	` '
Iron Depo			Thin Muck Si		,,	Shellow Aquite	, ,
Inundatio	n Visible on Aerial In			л in Remarks)		Microtopograp	
Sparsely	Vegetated Concave	Surface (88)				FAC-Neutral T	est (O5)
Fleid Observa	tions:						
Surface Weter		Yes No	Depth (inch	ea):	'		
Water Table Pr		Yes No					
Saturation Pres		Yes No			ls Wet	and Hydrology Present?	Yes No 🎖
(includes capilla	ary fringe)						
Describe Recor	og maerta) atad bebra	uge, monitoring	well, aerial photos, pre	vious inspections),	if available:		
Remarks:			<u></u>				
	(010 W.	1. 80+ ~~					
	(0.000					

APPENDIX 3. ROUTINE METHODOLOGY FOR DELINEATING WETLANDS

This delineation was performed according to guidelines set by the <u>U.S. Army Corps of Engineers 1987 Manual</u> and either the <u>2012 Regional Supplement to the Corp of Engineers Wetland Delineation Manual: Northcentral and Northeastern Region</u>, or the <u>2010 Regional Supplement to the Corp of Engineers Wetland Delineation Manual: Midwest Region</u>, depending on which region the site occurs within per US Army Corps of Engineers guidance. Additional DNR requirements and guidance that were presented at wetland delineation training courses offered by the Wisconsin Department of Administration, Coastal Management Program have also been incorporated. The most recent of these workshops we attended that provided current guidance was the Critical Methods in Wetland Delineation Workshop in March of 2011.

Maps used during the delineation included site location map, NRCS County soil maps, U.S.G.S. topographic map, Wisconsin Wetland Inventory Map, and aerial photography. NRCS Wetland Inventory Maps are provided when available and pertinent. The indicator plant status was taken from the 2009 North American Digital Flora: National Wetland Plant List, version 2.4.0 (approved 6/1/2012 and authored by Robert W. Lichvar and John T. Kartesz, U.S. Army Corps of Engineers, Engineer Research and Development Center, Cold Regions Research and Engineering Laboratory, Hanover, NH, and BONAP, Chapel Hill, NC). When an indicator was not given then the indicator listed in the "Plants of the Chicago Region," by Floyd Swink and Gerould Wilhelm (1994) was used.

Data points were set in areas that exhibited obvious wetland and obvious upland characteristics. At each data point, vegetation was identified, soils described, and hydrology noted. Vegetation was recorded as species and absolute percent cover. Herbaceous vegetation, shrub, and tree cover were estimated in circular plots of approximately 5, 15, and 30 feet in radius, respectively, with the center point being the soil pit. If the entire circular plot was not located within a single plant community, then the plot shape was adjusted accordingly with the total plot area remaining equivalent to the circular plot area. The cover was estimated in increments of 5%, and the appropriate test (Rapid Assessment, Dominance, Prevalence or Morphological Adaptations test) was used to determine dominant vegetation. The wetland boundary was staked and located between the wetland and upland data points, at a consistent break in vegetation, topography, and soils.

APPENDIX 4. BIOGRAPHIES OF FIELD INVESTIGATORS

Alice L. Thompson, Owner, Assured Wetland Delineator

Alice L. Thompson is an independent wetland consultant and is certified by the Society of Wetland Scientists as a Professional Wetland Scientist (PWS). She obtained a masters degree in biological sciences at the University of Wisconsin-Milwaukee in 1995. Her professional interests include wetland restoration, mitigation, and the control of invasive plant species, especially reed canary grass. Ms. Thompson has satisfactorily completed the Wetland Delineation course offered by the Wisconsin Department of Administration, Coastal Management Program in 1998, the Advanced Wetland Delineation Training Workshop offered by the University of Wisconsin-La Crosse in 2002, the Primary Environmental Corridor Delineation Workshop offered by the Southeastern Wisconsin Regional Planning Commission in 2004, Critical Methods in Wetland Delineation offered by the Wisconsin Department of Natural Resources in 2006, 2008, 2010, & 2011, and the Midwest Supplement Training offered by the US Army Corps of Engineers in 2009. Ms. Thompson has delineated over 350 wetlands and is a member of the Society of Wetland Scientists.