## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

City/County: Aitkin		Sampling Date: 2016-08-17
	State: Minnesota	Sampling Point: u-50n26w7-q1
Section, Townshi	p, Range: S7, T50N, R26W	
		vex, none): VV Slope (%): 0-2%
Latitude: 46	·	tude: -93.67965918 Datum: NAD83
		NWI Classification: N/A
nical for this time of year	? (if no explain in Remarks	
•		·
No significantly disturb	ped? Are "Normal Circumst	tances" present? Yes
o naturally problemati	c? (If needed, explain any	answers in Remarks)
nowing compling point le	ecations transports imports	ant factures ats
	1	ant reatures, etc.
	· ·	No
		<del></del>
_ <del></del>	ii yes, optional wetianu si	
iits Oi a WE13 alialysis.		
		Secondary Indicators (minimum of two required)
check all that apply)		Surface Soil Cracks (B6)
Water-Stained Leave	es (B9)	Drainage Patterns (B10)
Aquatic Fauna (B13)		Moss Trim Lines (B16)
Marl Deposits (B15)		Dry-Season Water Table (C2)
Hydrogen Sulfide Od	or (C1)	Crayfish Burrows (C8)
Oxidized Rhizospher	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Presence of Reduced	l Iron (C4)	Stunted/Stressed Plants (D1)
Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)
Thin Muck Surface (0	27)	Shallow Aquitard (D3)
Other (Explain in Rer	marks)	Microtopographic Relief (D4)
		FAC-Neutral Test (D5)
	i	
	•	
Depth (inches)		Wetland Hydrology Present? No
ing well, aerial photos, p	revious inspections), if avai	lable:
<u>1</u> h	Section, Townshi  Latitude: 46  pical for this time of year  No significantly disturb  naturally problemation  No N	State: Minnesota  Section, Township, Range: S7, T50N, R26W Local Relief (concave, com- Latitude: 46.838660985275 Longi  pical for this time of year? (if no, explain in Remarks  No significantly disturbed? Are "Normal Circums  no naturally problematic? (If needed, explain any  nowing sampling point locations, transects, importation  No Is the Sampled Area within a Wetland? If yes, optional Wetland Si  or in a separate report.)  ults of a WETS analysis.  check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Marl Deposits (B15)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres on Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Depth (inches)  Depth (inches)

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot Size: <u>30</u>	% Cover	Species?	Status	Number of Dominant Species
1. Quercus rubra	40.00	Yes	FACU	That Are OBL, FACW, or FAC: 1(A)
2.				Total Number of Dominant
3.				Species Across All Strata: 5 (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 20 (A/B)
6.				Prevalence Index worksheet:
7.				Total % Cover of: Multiply by:
<u> </u>	40	= Total Cover	-	OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15 )	40	- Total Cover		
1. Populus tremuloides	30.00	Yes	FAC	
2. Acer saccharum	15.00	Yes	UPL	UPL species <u>40.00</u> x 4 <u>200</u>
3		-		Column Totals <u>155</u> (A) <u>625</u> (B)
4			·	Prevalence Index = B/A = 4.0322580
5				Hydrophytic Vegetation Indicators:
6		_		1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	45	= Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations 1 (Provide
1. Eurybia macrophylla	30.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Carex woodii	25.00	Yes		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Aralia nudicaulis	10.00	No	FACU	1
4. Clintonia borealis	5.00	No	FAC	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.	-	-		
				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7			-	height (DBH), regardless of height.
8	-			1
9			_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12				woody plants less than 3.28 ft tall.
	70	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30		-		
1.				
				Hydrophytic
2			-	Vegetation
3	-	-	- · <del></del>	Present? No No
4				4
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.	)			

Sampling Point: u-50n26w... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Type<sup>1</sup> Loc<sup>2</sup> (inches) Color (moist) % Color (moist) % Texture Remarks 10YR 3 2 0-3 100 FSL 10YR 4 3 3-7 100 LS LS 10YR 5 3 100 7-24 <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil<sup>3</sup>: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F7) Iron-Maganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (explain in remarks) Restrictive Layer (if observed): Hydric Soil Present? No Depth (inches):

Remarks:

Site Photograph 1 Sampling Point: u-50n26w7-q1



Latitude: 46.838679509281	Cowardin Classification:
Longitude: -93.6796589289733	Circular 39:
Direction: East	Eggers & Reed:
Remarks:	
Upland	

Site Photograph 2 Sampling Point: u-50n26w7-q1



Circular 39:
Eggers & Reed:
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