WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: A	itkin	Sampling Date: 07-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point: w-51n23w24-c2
Investigator(s): SMR	Section, Tow	nship, Range: S. 24	T. 51N R. 23W
Landform (hillslope, terrace, etc.): Lowlar	<u> </u>	cave, convex, none):	concave Slope: 0.0 % / 0.0
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.1107	Long.: -93	11.5978 Datum: NAD 83
Soil Map Unit Name: 204B			IWI classification: N/A
Are climatic/hydrologic conditions on the si	te typical for this time of year?	● No ○ (If no,	explain in Remarks.)
Are Vegetation , Soil , or Hy	vdrology significantly disturbed?	Are "Normal Circun	
Are Vegetation , Soil , or Hy	drology naturally problematic?	(If needed, explain	any answers in Remarks.)
			nnsects, important features, etc
Hydrophytic Vegetation Present? Yes	● No ○		
Hydric Soil Present? Yes		ampled Area Wetland? Yes	● No ○
Wetland Hydrology Present? Yes	● No ○	Wedana:	
Hydrology			
Wetland Hydrology Indicators:		Socon	
Primary Indicators (minimum of one requ	ired: check all that apply)		dary Indicators (minimum of 2 required) urface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		rainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	M	oss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		ry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		ayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Ro	` ′ _	aturation Visible on Aerial Imagery (C9)
Drift deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)		unted or Stressed Plants (D1)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (eomorphic Position (D2) nallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7) Other (Explain in Remarks)		icrotopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		AC-neutral Test (D5)
Field Observations:			
Surface Water Present? Yes No	Depth (inches): 4		
Water Table Present? Yes • No	Depth (inches):0		
Saturation Present? (includes capillary fringe) Yes No	• • • • • • • • • • • • • • • • • • • •	Wetland Hydrology I	Present? Yes No
	onitoring well, aerial photos, previous inspe	ctions), if available:	
Remarks:			

VEGETATION - Use scientific names of plants

(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species	
1 _. Fraxinus nigra	70	✓	FACW	That are OBL, FACW, or FAC:4 (A)	
2	0				
3				Total Number of Dominant Species Across All Strata: 4 (B)	
4				Species 767 033 7 iii otrata.	
5				Percent of dominant Species	
				That Are OBL, FACW, or FAC:100.0% (A/B)	
6					
7				Prevalence Index worksheet:	
Sapling/Shrub Stratum (Plot size: 15)	=	= Total Cove	r	Total % Cover of: Multiply by:	
	10		FACW	0BL speci es 90 x 1 = 90	
1 Alnus incana		✓	FACW	FACW species <u>80</u> x 2 = <u>160</u>	
2				FAC speciles0 x 3 =0	
3				FACU species $0 \times 4 = 0$	
4	0			l ·	
5	0			l .	
6	0			Column Totals: <u>170</u> (A) <u>250</u> (B)	
7	0			Prevalence Index = B/A =1.471_	
	10 =	= Total Cove			
Herb Stratum (Plot size: 5		- rotar core		Hydrophytic Vegetation Indicators:	
1 Carex lacustris	40	✓	OBL	Rapid Test for Hydrophytic Vegetation	
		✓	OBL	✓ Dominance Test is > 50%	
			UBL	✓ Prevalence Index is ≤3.0 ¹	
3				Morphological Adaptations ¹ (Provide supporting	
4				data in Remarks or on a separate sheet)	
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)	
6	0				
7				¹ Indicators of hydric soil and wetland hydrology must	
8.				be present, unless disturbed or problematic.	
9				Definitions of Vegetation Strata:	
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.	
11				at breast height (DBH), regardless of height.	
12	0			Sapling/shrub - Woody plants less than 3 in. DBH and	
Woody Vine Stratum (Plot size: 30	90 =	= Total Cove	r	greater than 3.28 ft (1m) tall	
1	0			Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.	
2	0			Size, and woody plants less than 5.20 it tall.	
3	0			Woody vine - All woody vines greater than 3.28 ft in height.	
4	0				
	0 =	= Total Cove	r		
				Hydrophytic	
				Vegetation	
				Present? Yes No	
Remarks: (Include photo numbers here or on a separate she	et.)				
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Sampling Point: w-51n23w24-c2

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: w-51n23w24-c2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix				_						
(inches) Color (moist)		olor (moist)	%	Type ¹	Loc²	Texture	Remarks			
0-5 10YR 2/2	100					Muck				
5-20 10YR 5/2	80 10	/R 5/4	20	C	M	Silt Loam				
						•				
						•				
17 00 11 11 11 11										
¹ Type: C=Concentration. D=Depletion.	RM=Reduced Ma	atrix, CS=Covere	ed or Coate	ed Sand Gr	ains ² Loca					
Hydric Soil Indicators:						Indicators for Proble	ematic Hydric Soils: 3			
Histosol (A1)		Polyvalue Belov MLRA 149B)	w Surface	(S8) (LRR I	₹,	2 cm Muck (A10) (LRR K, L, MLRA 149B)				
Histic Epipedon (A2)		Thin Dark Surfa	ace (S9) (LRR R. MLF	RA 149B)	Coast Prairie Redo	x (A16) (LRR K, L, R)			
☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4)		Loamy Mucky N				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)				
Stratified Layers (A5)		Loamy Gleyed				Dark Surface (S7) (LRR K, L, M)				
Depleted Below Dark Surface (A11	· •	Depleted Matrix					urface (S8) (LRR K, L)			
Thick Dark Surface (A12)	,	Redox Dark Su				Thin Dark Surface				
Sandy Muck Mineral (S1)		Depleted Dark	Surface (F	7)		☐ Iron-Manganese Masses (F12) (LRR K, L, R)				
Sandy Mack Milleral (31) Sandy Gleyed Matrix (S4)		Redox Depress	ions (F8)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy Redox (S5)						Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
Stripped Matrix (S6)						Red Parent Materia				
Dark Surface (S7) (LRR R, MLRA 1					Very Shallow Dark Surface (TF12)					
						U Other (Explain in R	demarks)			
³ Indicators of hydrophytic vegetation a	and wetland nydr	ology must be p	resent, un	ness aisturi	bea or proble	ematic.				
Restrictive Layer (if observed):										
Type:						Hydric Soil Present?	Yes ● No ○			
Depth (inches):						Tryuric 3011 Present:	res © NO O			
Remarks:										