WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: A	itkin	Sampling	Date: 06-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	w-51n23w23-e3
Investigator(s): SMR	Section, Tow	nship, Range: S. 24	T. 51N	R. 23W
Landform (hillslope, terrace, etc.): Lowland	<u> </u>	cave, convex, none):	concave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.1182	Long.: -93	3 12.1536	Datum: NAD 83
Soil Map Unit Name: 346			NWI classification:	
Are climatic/hydrologic conditions on the site t	vpical for this time of year?	● No ○ (If no	– , explain in Remarks.)
Are Vegetation , Soil , or Hydro		Are "Normal Circum	-	Yes ● No ○
Are Vegetation , Soil , or Hydro	logy naturally problematic?		any answers in Rem	arks,)
Summary of Findings - Attach site	· · · · · · · · · · · · · · · · · · ·		-	•
Hydrophytic Vegetation Present? Yes	No O			
Hydric Soil Present? Yes •		ampled Area Wetland? Yes	● No ○	
Wetland Hydrology Present? Yes •	No O	Wedana.		
Hydrology				
Wetland Hydrology Indicators:		Secon	dary Indicators (minimu	ım of 2 required)
Primary Indicators (minimum of one required	; check all that apply)		urface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)		rainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		oss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		ry Season Water Table	(C2)
Water Marks (B1)	☐ Hydrogen Sulfide Odor (C1)		rayfish Burrows (C8)	(00)
Sediment Deposits (B2) Drift deposits (B3)	Oxidized Rhizospheres along Living Ro	` ′ —	aturation Visible on Aeri	
☐ Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)		tunted or Stressed Plant eomorphic Position (D2)	• •
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (eomorphic Position (D2) hallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)		icrotopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)		AC-neutral Test (D5)	U4)
Eld Observed and			. ,	
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0			
Water Table Present? Yes No •	Depth (inches):0		_	_
Saturation Present? (includes capillary fringe) Yes No	Depth (inches):0	Wetland Hydrology	Present? Yes •	No O
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspe	ections), if available:		
Remarks:				

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: w-51n23w23-e3						
(Diet size, 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:			
Tree Stratum (Plot size: 30	% Cover		Status	Number of Dominant Species			
1. Fraxinus nigra	80	✓	FACW	That are OBL, FACW, or FAC:3 (A)			
2	0			Total Number of Deminent			
3	0			Total Number of Dominant Species Across All Strata: 3 (B)			
4							
5		П		Percent of dominant Species			
6		$\overline{\Box}$		That Are OBL, FACW, or FAC: 100.0% (A/B)			
7		$\overline{\Box}$		Prevalence Index worksheet:			
	80 = Total Cover			Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es30 x 1 =30			
1	0			FACW species 120 x 2 = 240			
2							
3			-	FAC speciles x 3 =0			
4		$\overline{\Box}$		FACU species $0 \times 4 = 0$			
5		П		UPL speci es $0 \times 5 = 0$			
6.				Column Totals: <u>150</u> (A) <u>270</u> (B)			
-							
7		= Total Cove		Prevalence Index = B/A = 1.800			
Herb Stratum (Plot size: 5)	=	- rotal Cove	•	Hydrophytic Vegetation Indicators:			
	30	✓	OBL	Rapid Test for Hydrophytic Vegetation			
		▼	FACW	✓ Dominance Test is > 50%			
			FACVV	✓ Prevalence Index is ≤3.0 ¹			
3				Morphological Adaptations ¹ (Provide supporting			
4				data in Remarks or on a separate sheet)			
5				Problematic Hydrophytic Vegetation ¹ (Explain)			
6				1			
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
8	0						
9	0			Definitions of Vegetation Strata:			
10	0			Tree - Woody plants, 3 in. (7.6 cm) or more in diameter			
11				at breast height (DBH), regardless of height.			
12		$\overline{\Box}$		Continue to Management I and the Continue to BRIT and			
	_	= Total Cove	r	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall			
Woody Vine Stratum (Plot size: 30				groater than 6.20 ft (fm) tall			
1	0			Herb - All herbaceous (non-woody) plants, regardless of			
2	0			size, and woody plants less than 3.28 ft tall.			
3	0			Woody vine - All woody vines greater than 3.28 ft in			
4	0			height.			
	0 =	= Total Cove	r				
	-						
				Hydrophytic			
				Vegetation Yes • No •			
				Present:			
				I			
Remarks: (Include photo numbers here or on a separate s	heet.)						

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

Soil Sampling Point: w-51n23w23-e3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth (in chas)	•		Redox Features									
(inches)	Color (Color (moist)	%_	Type ¹	Loc ²	Texture	Rer	marks	
0-4	10YR	2/1	100						Silt Loam	_		
4-15	10YR	5/1	85	10YR	5/4	15	C		Silt Loam			
									-			
		-		-					-			
				-								
		-	-		-							
			_							_		
1- 00												
		=Depletio	n. RM=Rec	uced Matrix,	CS=Cover	ed or Coat	ted Sand Gr	rains ² Loca	ation: PL=Pore Lining. M=			
Hydric Soil I									Indicators for Pro	olematic Hydr	ic Soils: 3	
Histosol (A	•				value Belo A 149B)	w Surface	(S8) (LRR	R,	2 cm Muck (A10) (LRR K, L, ML	RA 149B)	
Histic Epip					•	ace (S9) ((LRR R, ML	RA 149B)	Coast Prairie Re	dox (A16) (LRR	K, L, R)	
Black Histi	ic (A3) Sulfide (A4)			_			1) LRR K, L		5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)				-	Matrix (F2		,	Dark Surface (S			
	Below Dark S	Surface (A	11)		eted Matri		•		Polyvalue Below			
	k Surface (A1		11)			ırface (F6)			Thin Dark Surface			
	ck Mineral (S			☐ Dep	eted Dark	Surface (F	7)		☐ Iron-Manganese			
	yed Matrix (Rede	ox Depress	sions (F8)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B)			
Sandy Red		o .,							Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Stripped N									Red Parent Material (F21)			
	Dark Surface (S7) (LRR R, MLRA 149B)					✓ Very Shallow Dark Surface (TF12)✓ Other (Explain in Remarks)						
							-11:-4	hl		i Remarks)		
³ Indicators of			n and wella	ina nyarology	must be	present, ur	niess distui	bed of proble	етанс.			
Restrictive La	-	erved):										
Type: Ro									Hydric Soil Present?	Yes	No O	
Depth (inch	nes): 15								,	163 🗢	140 😊	
Remarks:												