## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: Carl	lton	Sampling	<b>Date:</b> 16-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-48n17w16-a5
Investigator(s): DPT	Section, Towns	ship, Range: S. 16	<b>T.</b> 48N	<b>R.</b> 17W
Landform (hillslope, terrace, etc.): Mound	<u> </u>	ve, convex, none):	convex	Slope: 5.2 % / 3.0 °
Subregion (LRR or MLRA): LRR K	<b>Lat.:</b> 46 38.7013	<b>Long.:</b> -92	30.5125	Datum: NAD 83
Soil Map Unit Name: 533		N	WI classification:	N/A
Are climatic/hydrologic conditions on the site ty	voical for this time of year? Yes	No (If no,	explain in Remarks	.)
Are Vegetation, Soil, or Hydrol		Are "Normal Circum	-	Yes ● No ○
Are Vegetation , Soil , or Hydrol		(If needed, explain	•	narks.)
Summary of Findings - Attach site		, ,	-	•
Hydrophytic Vegetation Present? Yes	No •			
Hydric Soil Present? Yes	No • Is the San within a W	npled Area Vetland? Yes	○ No ●	
Wetland Hydrology Present? Yes	No •	reduita		
Remarks: (Explain alternative procedures her	e or in a separate report.)			
Hydrology  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required):	check all that apply)		dary Indicators (minimi	um of 2 required)
Surface Water (A1)	Water-Stained Leaves (B9)		ainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		oss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		y Season Water Table	(C2)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Odor (C1)		ayfish Burrows (C8) turation Visible on Aer	ial Imagany (CO)
Drift deposits (B3)	Oxidized Rhizospheres along Living Root		ituration Visible on Aer unted or Stressed Plan	0 3
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6		eomorphic Position (D2	• •
Iron Deposits (B5)	Thin Muck Surface (C7)	· —	iallow Aquitard (D3)	,
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		crotopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B8)		FA	C-neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes No •	Depth (inches):0			
Water Table Present? Yes No •	Depth (inches):0		(	
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches):0	Wetland Hydrology F	Present? Yes	No •
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, previous inspect	ions), if available:		
Remarks:				
iterial ks.				

## **VEGETATION - Use scientific names of plants**

vederation - ose scientific fiames of p	Sampling Point: u-48n17w16-a5			
(Dist. 2 - 20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30 )	% Cover	Species?	Status	Number of Dominant Species
1 Pinus strobus		✓	FACU	That are OBL, FACW, or FAC: (A)
2. Abies balsamea	20	✓	FAC	Total Number of Dominant
3. Betula papyrifera	10	✓	FACU	Species Across All Strata: 8 (B)
4	0			
5	0			Percent of dominant Species That Are OBL FACW, or FAC: 25.0% (A/B)
6				That Are OBL, FACW, or FAC: 25.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )	50 =	= Total Cove	r	Total % Cover of: Multiply by:
4. Complete comments	10		FACU	0BL speci es x 1 =0
		<b>✓</b>	1700	FACW species 0 x 2 = 0
2				FAC species <u>40</u> x 3 = <u>120</u>
3			-	FACU species 90 x 4 = 360
4				UPL speci es 30 x 5 = 150
5				Column Totals: 160 (A) 630 (B)
6			-	
7				Prevalence Index = B/A = 3.938
Herb Stratum (Plot size: 5 )	10=	= Total Cove	r	Hydrophytic Vegetation Indicators:
	20		LIDI	Rapid Test for Hydrophytic Vegetation
1. Eurybia macrophylla		<b>✓</b>	UPL	☐ Dominance Test is > 50%
2. Pteridium aquilinum		<b>✓</b>	FACU	Prevalence Index is ≤3.0 <sup>1</sup>
3. Vaccinium angustifolium		<b>✓</b>	FACU	Morphological Adaptations <sup>1</sup> (Provide supporting
4. Cornus canadensis			FAC	data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6				17.4.
7				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8				
9				Definitions of Vegetation Strata:
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1				at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30 )	100 =	100 = <b>Total Cover</b>		greater than 3.28 ft (1m) tall
	0			Harb All barbassays (non woody) plants, regardless of
1			-	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				
3			-	Woody vine - All woody vines greater than 3.28 ft in
4				height.
	=	= Total Cove	r	
				Hydrophytic
				Vegetation
				Present? Yes No •
Remarks: (Include photo numbers here or on a separate	sheet.)			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-48n17w16-a5

Depth	i ipuoni (De	Matrix	ше иеріп	needed to document the indicato Redox Features	or committee	absence of mulcators.)	
(inches)	Color (	(moist)	%		ype <sup>1</sup> Loc²	Texture	Remarks
0-13	10YR	3/2	100			Sandy Loam	
13-20	7.5YR	4/4	100			Fine Loamy Sand	
	-	-					
	-						
	-						
	-						
	-						
• •		D=Depletio	n. RM=Red	uced Matrix, CS=Covered or Coated Sa	and Grains <sup>2</sup> Loca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil						Indicators for Proble	matic Hydric Soils: <sup>3</sup>
Histosol	. ,			Polyvalue Below Surface (S8) MLRA 149B)	(LRR R,	2 cm Muck (A10) (	LRR K, L, MLRA 149B)
	pedon (A2)			Thin Dark Surface (S9) (LRR	R MIRA 149R)	Coast Prairie Redox	(A16) (LRR K, L, R)
Black His				Loamy Mucky Mineral (F1) LR		5 cm Mucky Peat o	r Peat (S3) (LRR K, L, R)
	n Sulfide (A4) Layers (A5)	)		Loamy Gleyed Matrix (F2)	, , , , , , , , , , , , , , , , , , ,	Dark Surface (S7)	(LRR K, L, M)
	Below Dark	Surface (A	11\	Depleted Matrix (F3)			ırface (S8) (LRR K, L)
_	rk Surface (A		.11)	Redox Dark Surface (F6)		Thin Dark Surface	
	uck Mineral (			Depleted Dark Surface (F7)			asses (F12) (LRR K, L, R)
	eyed Matrix (			Redox Depressions (F8)			n Soils (F19) (MLRA 149B)
Sandy Re		(31)					(MLRA 144A, 145, 149B)
	Matrix (S6)					Red Parent Materia	
	face (S7) (LR	R R, MLRA	A 149B)			<ul><li>✓ Very Shallow Dark</li><li>✓ Other (Explain in R</li></ul>	
				and hydrology must be present, unless	disturbed or probl	, ,	emarks)
			iii anu wena	ind flydrology must be present, unless	disturbed or probi	ematic.	
Restrictive L		served):					
Type: <u>r</u>						Hydric Soil Present?	Yes ○ No •
Depth (inc	ches): 14					nyune son rresent:	res C INO C
Remarks:							