WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 12-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: w-51n20w35-a1
Investigator(s): PJK	Section, Township, Range: S.	T. 51N R. 20W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.6409 Long.:	-92 50.8863 Datum: NAD 83
Soil Map Unit Name: B124A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes No (If	no, explain in Remarks.)
Are Vegetation ☐ , Soil ☐ , or Hydrology		cumstances" present? Yes No
Are Vegetation , Soil , or Hydrology		ain any answers in Remarks.)
Summary of Findings - Attach site ma	, , ,	•
Hydrophytic Vegetation Present? Yes • No		
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland?	es No
Wetland Hydrology Present? Yes • No		
Remarks: (Explain alternative procedures here or in	a senarate renort.)	
Hydrology		
Wetland Hydrology Indicators:		condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check		Surface Soil Cracks (B6)
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	<u> </u>	FAC-neutral Test (D5)
Field Observations: Surface Water Present? Yes No No		
	Depth (inches): 0	
Water Table Present? Yes No •	Depth (inches): 0 Wetland Hydrolog	gy Present? Yes No
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	gy resent.
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if available	: :
Remarks:		
. Tomania		

VEGETATION - Use scientific names of plants

(No. 1 - 20	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30	% Cover	_	Status	Number of Dominant Species	
1. Populus tremuloides	40	✓	FACU	That are OBL, FACW, or FAC:3 (A)	
2. Picea mariana	40	✓	FACW	Total Number of Dominant	
3	0			Species Across All Strata: 4 (B)	
4	0				
5	0			Percent of dominant Species That Are OBL_FACW_or_FAC: 75.0% (A/B)	
6				That Are OBL, FACW, or FAC:75.0% (A/B)	
7				Prevalence Index worksheet:	
		= Total Cove	r	Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15)				0BL speci es 0 x 1 = 0	
1. Salix petiolaris	20	✓	FACW	FACW species 160 x 2 = 320	
2	0			FAC speciles x 3 =0	
3	0				
4	0			' '	
5	0			UPL speci es x 5 =0	
6				Column Totals: <u>200</u> (A) <u>480</u> (B)	
7	0			Prevalence Index = B/A =2.400	
	20 =	= Total Cove	r	Hydrophytic Vegetation Indicators:	
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation	
1. Phalaris arundinacea	100	✓	FACW		
2	0				
3				✓ Prevalence Index is ≤3.0 ¹	
4				Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
5				Problematic Hydrophytic Vegetation ¹ (Explain)	
6				Problematic Hydrophytic Vegetation (Explain)	
7				1 Indicators of hydric soil and wetland hydrology must	
		П		be present, unless disturbed or problematic.	
8				Definitions of Vegetation Strata:	
9					
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter	
11				at breast height (DBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. DBH and	
Woody Vine Stratum (Plot size: 30)	100=	= Total Cove	r	greater than 3.28 ft (1m) tall	
1	0			Herb - All herbaceous (non-woody) plants, regardless of	
2	0	П		size, and woody plants less than 3.28 ft tall.	
	0		-		
3	0			Woody vine - All woody vines greater than 3.28 ft in height.	
4		Total Carre		neight.	
	=	= Total Cove	r		
				Hydrophytic	
				Vegetation	
				Present? Yes No	
Remarks: (Include photo numbers here or on a separate she	et.)				

Sampling Point: w-51n20w35-a1

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

Soil Sampling Point: w-51n20w35-a1

Depth		Matrix				dox Featu			absence of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-5	10YR	2/2	100						Silt Loam	
5-9	10YR	3/2	90	10YR	3/4	10	С	М	Sandy Loam	
9-20	10YR	5/2	90	10YR	5/6	20	С	М	Silt Loam	
	-								-	
		-		-	-	-		-		
				-	-	-		-		
		-		-	-	-		-		
		-		-	-	-		-		
¹ Type: C=Cor	ncentration. D	=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix
Hydric Soil	Indicators:								Indicators for Proble	matic Hydric Soils: 3
Histosol	(A1)					w Surface ((S8) (LRR F	₹,		LRR K, L, MLRA 149B)
Histic Epi	ipedon (A2)				A 149B)	(60) (DD D 1415)		(A16) (LRR K, L, R)
Black His						ace (S9) (I				r Peat (S3) (LRR K, L, R)
	n Sulfide (A4)					Mineral (F1 Matrix (F2)			Dark Surface (S7)	
	Layers (A5)		>		eted Matri		•		Polyvalue Below Su	ırface (S8) (LRR K, L)
	Below Dark		(11)			rface (F6)			Thin Dark Surface	(S9) (LRR K, L)
	rk Surface (A uck Mineral (S			_		Surface (F	7)			asses (F12) (LRR K, L, R)
	eyed Matrix (_	ox Depress		•			n Soils (F19) (MLRA 149B)
Sandy Re		,34)								(MLRA 144A, 145, 149B)
	Matrix (S6)								Red Parent Materia	• •
	face (S7) (LR	R R, MLRA	A 149B)						✓ Very Shallow Dark✓ Other (Explain in R	
	of hydrophytic			nd hydrology	must bo	arosont un	loce dicturk	od or probl	···	emarks)
			ni and wella	na nyarology	must be	Jieseiit, uii	iess distuit	bed of probl	lemanc.	
Restrictive L	ayer (if obs	erved):								
Type:	ah a a \ .								Hydric Soil Present?	Yes ● No ○
Depth (inc	cnes):								,	100 0 110 0
Remarks:										