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: u-51n20w35-d1
Investigator(s): PJK	Section, Township, Range: S. 3	T. 51N R. 20W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none): convex Slope: 3.5 % / 2.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.3571 Long.:	-92 50.5611 Datum: NAD 83
Soil Map Unit Name: B104A		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	significantly disturbed? Are "Normal Circ	cumstances" present? Yes O No •
Are Vegetation , Soil , or Hydrology		iain 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 O No 🖲
Wetland Hydrology Present? Yes No		
Remarks: (Explain alternative procedures here or in	a separate report.)	
Hydrology		
Wetland Hydrology Indicators:		condary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; check	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
	Aquatic Fauna (B13)	Moss Trim Lines (B16)
	Marl Deposits (B15)	Dry Season Water Table (C2)
	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	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) Sparsely Vegetated Concave Surface (B8)	Other (Explain in Remarks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely vegetated concave surface (66)		FAC-Heutral Test (DS)
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
Water Table Present? Yes No Saturation Present?	Depth (inches): 0 Wetland Hydroloc	av Present? Yes ○ No ●
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	,
Describe Recorded Data (stream gauge, monitoring v	vell, aerial photos, previous inspections), if available):
Domonico		
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pr	Sampling Point: u-51n20w35-d1			
(0) -1 -20	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata:1(B)
4				
5				Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
6				That Are OBE, TAGW, OF TAG.
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	0 =	Total Cove	r	Total % Cover of: Multiply by:
	0			0BL species x 1 =0
1				FACW species 0 x 2 = 0
2				FAC species x 3 =
3				FACU species 100 x 4 = 400
4				UPL species $0 \times 5 = 0$
5			-	Column Total s:100 (A)400 (B)
6				
7				Prevalence Index = B/A = 4.000
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
	10		FACU	Rapid Test for Hydrophytic Vegetation
		✓		☐ Dominance Test is > 50%
2. Phaym protoppe			FACU FACU	☐ Prevalence Index is \leq 3.0 1
3. Phleum pratense	10		FACU	☐ Morphological Adaptations ¹ (Provide supporting
4. Plantago major	15			data in Remarks or on a separate sheet)
5. Taraxacum officinale			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				Deminions 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				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
	0			Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				
3				Woody vine - All woody vines greater than 3.28 ft in height.
4		Total Cause		neight.
	=	= Total Cove	r	
				Hydrophytic
				Vegetation
				Present? Yes V No V
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: u-51n20w35-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth		Matrix			dox Featu			_	
(inches)	Color	(moist)	%	Color (moist)	%	Type ¹	Loc2	Texture	Remarks
0-12	10YR	3/4	100					Silt Loam	
								-	
				-				-	
				·				-	
			-						
					-				
1 Type: C=Cope	contration I		n DM-Doo	Jucod Matrix CS_Cover	od or Coat	od Sand Gra	ins 2Loca	ation: PL=Pore Lining. M=N	
		D-Depletio	III. KIVI–KEC	ided Matrix, C3=Cover	eu or coate	eu Sanu Gra	iiiis -Luca		
Hydric Soil I					6 6	(CO) (LDD D		Indicators for Probl	ematic Hydric Soils: 3
Histosol (•			Polyvalue Belo MLRA 149B)	w Surrace	(S8) (LRR R	1	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
	pedon (A2)			☐ Thin Dark Surf	ace (S9) (LRR R. MLR	A 149B)	Coast Prairie Red	ox (A16) (LRR K, L, R)
Black Hist				Loamy Mucky			····-,	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Loamy Gleyed				Dark Surface (S7)) (LRR K, L, M)
	Layers (A5)			Depleted Matri		,		Polyvalue Below S	Surface (S8) (LRR K, L)
	Below Dark		11)	Redox Dark Su				Thin Dark Surface	e (S9) (LRR K, L)
	k Surface (A			Depleted Dark		7)		Iron-Manganese I	Masses (F12) (LRR K, L, R)
	ıck Mineral (/)			ain Soils (F19) (MLRA 149B)
Sandy Gle	eyed Matrix	(S4)		Redox Depress	SIONS (F8)				6) (MLRA 144A, 145, 149B)
Sandy Red	dox (S5)							Red Parent Mater	
Stripped N	Matrix (S6)							Very Shallow Dark	
☐ Dark Surfa	ace (S7) (LF	R R, MLRA	149B)					Other (Explain in	
³ Indicators of	f hydrophyti	vegetatio	n and wetl	and hydrology must be	nresent un	ıless disturb	ed or proble		,
			ir and weth	and rigarology must be	present, un	iloss distarb	ca or proble	ematic.	
Restrictive La		served):							
Type: <u>ro</u>								Hydric Soil Present?	Yes ○ No •
Depth (incl	hes): <u>12</u>							riyuric 3011 Fresent:	res Uno U
Remarks:									
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