WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/C	ounty: St. Louis	Sampling	Date: 13-Sep-17
Applicant/Owner: Enbridge		State: MN	Sampling Point:	u-50n20w2-b1
Investigator(s): PJK	Sec	ction, Township, Range: S	. 2 T. 50N	R. 20W
Landform (hillslope, terrace, etc.): Mou	nd Local r	relief (concave, convex, no	ne): convex	Slope: 57.7 % / 30.0 °
Subregion (LRR or MLRA): LRR K	Lat.: 46 51.0	0156 Long.	-92 49.7027	Datum: NAD 83
Soil Map Unit Name: 1020A			NWI classification:	FFO/SSE
Are climatic/hydrologic conditions on the	site tunical for this time of year?	Yes No (If no, explain in Remarks	
	Hydrology Significantly distu	`	Ti no, explain in Remarks Circumstances" present?	., Yes ● No ○
			-	
	Hydrology	,	cplain any answers in Ren	•
Summary of Findings - Attack		ing point locations	s, transects, impor	tant reatures, etc
7 7	s O No O	Is the Sampled Area		
	s O No O	within a Wetland?	Yes ○ No •	
Wetland Hydrology Present?	s O No 🖲			
No digging on pipeline, active buried ut	ilities.			
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minimu	um of 2 required)
Primary Indicators (minimum of one rec			Surface Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)		Drainage Patterns (B10)	
Saturation (A3)	Aquatic Fauna (B13) Marl Deposits (B15)		✓ Moss Trim Lines (B16)✓ Dry Season Water Table	(C2)
Water Marks (B1)		`	Crayfish Burrows (C8)	(62)
Sediment Deposits (B2)	☐ Hydrogen Sulfide Odor (C1☐ Oxidized Rhizospheres alor		Saturation Visible on Aer	ial Imagery (CO)
Drift deposits (B3)	Presence of Reduced Iron		Stunted or Stressed Plan	0 3
Algal Mat or Crust (B4)	Recent Iron Reduction in T		Geomorphic Position (D2	• •
Iron Deposits (B5)	Thin Muck Surface (C7)	liled 30li3 (00)	Shallow Aquitard (D3)	,
Inundation Visible on Aerial Imagery (B7)			Microtopographic Relief (´D4`)
Sparsely Vegetated Concave Surface (B8)	Utilei (Explain in Kemarks))	FAC-neutral Test (D5)	(5.1)
Field Observations: Surface Water Present? Yes N	Depth (inches):	0		
Saturation Present?		0 Wetland Hydro 0	logy Present? Yes	No ●
(includes capillary fringe) Describe Recorded Data (stream gauge,		ious inspections), if availa	ble:	
		,		
Remarks:				

VEGETATION - Use scientific names of plants

VEGETATION - Use scientific fiames of pia	iiiG			Sampling Point: u-50n20w2-b1
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30	% Cover	Species?	Status	Number of Dominant Species
1	0			That are OBL, FACW, or FAC: (A)
2	0			Total Number of Dominant
3	0			Species Across All Strata: 3 (B)
4	0			
5				Percent of dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove	,	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15				0BL speci es 0 x 1 = 0
1	0			FACW species 0 x 2 = 0
2	0			
3				<u> </u>
4				FACU species $\underline{100}$ x 4 = $\underline{400}$
5				UPL speci es $0 \times 5 = 0$
6.				Column Totals: 100 (A) 400 (B)
7				Prevalence Index = B/A = 4.000
		= Total Cove	,	
Herb Stratum (Plot size: 5)				Hydrophytic Vegetation Indicators:
1. Cirsium arvense	30	✓	FACU	Rapid Test for Hydrophytic Vegetation
2 Tanacetum vulgare		✓	FACU	Dominance Test is > 50%
3. Lotus corniculatus		✓	FACU	Prevalence Index is ≤3.0 ¹
4. 004	45	\Box	FACU	Morphological Adaptations ¹ (Provide supporting
E. Don mestamala	15	\Box	FACU	data in Remarks or on a separate sheet)
•		\Box	TACO	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				Definitions of Vegetation Strata.
0				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter
1	0			at breast height (DBH), regardless of height.
2	0			Sapling/shrub - Woody plants less than 3 in. DBH and
(District 20	100 =	= Total Cove	r	greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30)				
1,				Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
2				size, and woody plants less than 5.20 it tall.
3				Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	= Total Cove	r	
				Hydrophytic
				Vegetation
Remarks: (Include photo numbers here or on a separate sh	oot \			
remarks, friedage buoto unimers nere or on a sebarate su	ceuj			

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

Soil Sampling Point: u-50n20w2-b1

Depth	Matrix	Redox Features	_
inches)	Color (moist) %	Color (moist) % Type 1 Loc2	Texture Remarks
			_ ·
			- ·
pe: C=Conc	entration. D=Depletion. RM=R	educed Matrix, CS=Covered or Coated Sand Grains ² Lo	cation: PL=Pore Lining. M=Matrix
dric Soil Ir			
Histosol (A		Polyvalue Below Surface (S8) (LRR R,	Indicators for Problematic Hydric Soils: 3
	•	MLRA 149B)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epipe		Thin Dark Surface (S9) (LRR R, MLRA 149B)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histid		Loamy Mucky Mineral (F1) LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Dark Surface (S7) (LRR K, L, M)
Stratified L	ayers (A5)	Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted B	Below Dark Surface (A11)	Depleted Matrix (F3)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark	Surface (A12)	Redox Dark Surface (F6)	
	ck Mineral (S1)	Depleted Dark Surface (F7)	☐ Iron-Manganese Masses (F12) (LRR K, L, R)
		Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Clay			
	yed Matrix (S4)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Red	lox (S5)		☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)☐ Red Parent Material (F21)
Sandy Red Stripped M	lox (S5) latrix (S6)		
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Sandy Red Stripped M Dark Surfa	lox (S5) latrix (S6) ce (S7) (LRR R, MLRA 149B)		☐ Red Parent Material (F21)☐ Very Shallow Dark Surface (TF12)☐ Other (Explain in Remarks)
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