WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 14-Sep-17
Applicant/Owner: Enbridge	State:	MN Sampling Point: u-50n19w17-a1
Investigator(s): SMR	Section, Township, Ran	ge: S. 17 T. 50N R. 19W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, conv	
Subregion (LRR or MLRA): LRR K	Lat.: 46 48.8404	Long.: -92 46.595
Soil Map Unit Name: F141D		NWI classification: N/A
Are climatic/hydrologic conditions on the site type	pical for this time of year?	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrold		rmal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrold		ed, explain any answers in Remarks.)
- , - , ,	•	ions, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No •	· · ·
Hydric Soil Present? Yes	No Is the Sampled Are within a Wetland?	ea Yes ○ No •
•	No •	100 - 110 -
Remarks: (Explain alternative procedures here		
Hydrology Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required;	check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	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) ☐ Algal Mat or Crust (B4)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Geomorphic Position (D2) Shallow Aguitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Curio (Explain in remaine)	FAC-neutral Test (D5)
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	Hydrology Present? Yes O No 💿
	ring well, aerial photos, previous inspections), if	available:
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla	iits			Sampling Point: u-50n19w17-a1
Tree Stratum (Plot size: 30)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
	% Cover	-	Status	Number of Dominant Species
1 Betula papyrifera		✓	FACU	That are OBL, FACW, or FAC: (A)
2. Acer rubrum		✓	FAC	Total Number of Dominant
3. Populus tremuloides	40	✓	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	0			That Are OBE, FACW, OF FAC.
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	80=	= Total Cove	r	Total % Cover of: Multiply by:
1 Populus tremuloides	70	✓	FACU	0BL speciles 0 x 1 = 0
2. Acer rubrum	20	V	FAC	FACW species
3. Betula populifolia	10		FAC	FAC speciles
4				FACU species x 4 =
5				UPL species $\frac{50}{}$ x 5 = $\frac{250}{}$
6				Column Totals: 280 (A) 1120 (B)
7			-	Prevalence Index = B/A = 4,000
		= Total Cove	r	
Herb Stratum (Plot size: 5			-	Hydrophytic Vegetation Indicators:
1 Aralia nudicaulis	30	✓	FACU	Rapid Test for Hydrophytic Vegetation
2 Eurybia macrophylia		✓	UPL	☐ Dominance Test is > 50%
3 Carex pensylvanica	10		UPL	☐ Prevalence Index is ≤3.0 ¹
4. Pteridium aquilinum	20	✓	FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation ¹ (Explain)
6				Problematic nydropnytic vegetation - (Explain)
7				¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
11				at bloast height (BBH), regardless of height.
12		 = Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		- Total Cove	:1	greater than 3.28 ft (1m) 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 Present? Yes No No
Remarks: (Include photo numbers here or on a separate she	act \			
remains, friende busto unimpers nele oi ou a schalate su				

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

Soil Sampling Point: u-50n19w17-a1

inches)		latrix	0/-	Redox Features	Toyture	Domarica
0-4	Color (m	3/3	% 100	Color (moist) % Type 1 Loc2	Texture Sandy Clay Loam	Remarks
4-7	10YR	3/4	100			
					Sandy Clay Loam	
7-20		4/4			Sandy Clay Loam	
oe: C=Con	centration. D=I	Depletio	n. RM=Red	uced Matrix, CS=Covered or Coated Sand Grains 2Local	ation: PL=Pore Lining. M=M	atrix
dric Soil I	Indicators:				Indicators for Proble	ematic Hydric Soils: 3
Histosol (•			Polyvalue Below Surface (S8) (LRR R, MLRA 149B)		(LRR K, L, MLRA 149B)
	pedon (A2)			Thin Dark Surface (S9) (LRR R, MLRA 149B)		x (A16) (LRR K, L, R)
Black Hist				Loamy Mucky Mineral (F1) LRR K, L)	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
☐ Hydrogen Sulfide (A4)☐ Stratified Layers (A5)			Loamy Gleyed Matrix (F2)	Dark Surface (S7)	(LRR K, L, M)	
	Below Dark Su	rfaco (A	11\	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)	
	k Surface (A12		.11)	Redox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)	
	ick Mineral (S1)	•		Depleted Dark Surface (F7)		lasses (F12) (LRR K, L, R)
	eyed Matrix (S4			Redox Depressions (F8)		in Soils (F19) (MLRA 149B)
Sandy Re		,) (MLRA 144A, 145, 149B)
	Matrix (S6)				Red Parent Materia Very Shallow Dark	
Dork Curf	ace (S7) (LRR I	R, MLRA	149B)		Other (Explain in F	
Dark Suri		egetatio	n and wetla	nd hydrology must be present, unless disturbed or probl		ioniano)
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