WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 09-Sep-17
Applicant/Owner: Enbridge	State: N	N Sampling Point: w-51n21w24-b2
Investigator(s): PJK	Section, Township, Range	: S. 24 T. 51N R. 21W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR K	Lat.: 46 53.2763 Lor	ng.: -92 56.8864
Soil Map Unit Name: B103A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typ	pical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrolo		al Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrolo		, explain any answers in Remarks.)
.	•	ns, transects, important features, etc
Hydrophytic Vegetation Present? Yes Yes	No O	
Hydric Soil Present? Yes Yes	No State Sampled Area within a Wetland?	Yes ● No ○
-	No O	1.12
Remarks: (Explain alternative procedures here	or in a senarate report.)	
Hydrology		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; of Surface Water (A1)		Surface Soil Cracks (B6) Drainage Patterns (B10)
✓ High Water Table (A2)	☐ Water-Stained Leaves (B9) ☐ 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)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
☐ Algal Mat or Crust (B4)☐ Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6)	✓ Geomorphic Position (D2) Shallow Aguitard (D2)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	Uther (Explain in Remarks)	FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No •	Depth (inches): 0	
Water Table Present? Yes • No	Depth (inches): 1	
Saturation Present? (includes capillary fringe) Yes No	Depth (inches): 0	drology Present? Yes No
	ring well, aerial photos, previous inspections), if ava	ailable:
Remarks:		
The market		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pic	ants			Sampling Point: w-51n21w24-b2
(0)	Absolute	Dominant Species?	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			THIN I GO I I I
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5				Percent of dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	•	0BL species 100 x 1 = 100
1 Alnus incana	80	✓	FACW	
2. Spiraea alba	E		FACW	FACW species 105 x 2 = 210
3. Salix petiolaris	- 20		FACW	FAC speciles x 3 =0
4				FACU species $0 \times 4 = 0$
5				UPL species $0 \times 5 = 0$
6.			-	Column Total s: 205 (A) 310 (B)
7				Prevalence Index = B/A = 1.512
Herb Stratum (Plot size: 5	105=	= Total Cove	r	Hydrophytic Vegetation Indicators:
	90		ODL	Rapid Test for Hydrophytic Vegetation
1. Carex lacustris		✓	OBL	✓ Dominance Test is > 50%
2. Calamagrostis canadensis			OBL	✓ Prevalence Index is ≤3.0 ¹
3. Carex stricta			OBL	Morphological Adaptations ¹ (Provide supporting
4				data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
8	0			
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				
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall
Woody Vine Stratum (Plot size: 30			-	greater than 3.26 it (1111) 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.
Ti	0 =	= Total Cove		
		- 1000 0010	-	
				Hydrophytic
				Vegetation
				Present? Yes V No
Remarks: (Include photo numbers here or on a separate sl	heet.)			

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

Soil Sampling Point: w-51n21w24-b2

Name
0.5 10YR 2/1 100
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains
9-20 10VR 4/1 90 10VR 5/6 10 C M Silt Loam Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Hydric Soil Indicators: Hydric Soil Indicators:
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix. CS=Covered or Coated Sand Grains 2Location: PL=Pore Lining. M=Matrix Hydric Soil Indicators: Histor Epipedon (A2)
Hydric Soil Indicators: Histosol (A1)
Histosol (A1)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Somution Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR K, L, R) Dark Surface (A1) Dark Surface (S7) (LRR K, L, M) Dark Surface (S7) (LRR K, L, M) Depleted Below Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No ○
Black Histic (A3)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) Redox Depressions (F8) Sandy Redox (S5) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No ○
Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR K, L, M) Redox Depressions (F8) Redox Depress
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox Depressions (F8) Redox Depressions (F8) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Depth (inches): Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Other (Explain in Remarks) Type: Depth (inches): Hydric Soil Present? Yes No
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) 3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Type: Depth (inches): Type: Depth (inches):
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Type:
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Depth (mones).
Remarks: