WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 13-Sep-17
Applicant/Owner: Enbridge	State: N	//N Sampling Point: u-50n20w1-b1
Investigator(s): SMR	Section, Township, Range	s. 5. 1 T. 50N R. 20W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR K	Lat.: 46 50.7012 Lo	ng.: -92 49.2413
Soil Map Unit Name: B124A		NWI classification: N/A
Are climatic/hydrologic conditions on the site typ	pical for this time of year?	(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.)
_ , _ , ,	•	ons, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No	
Hydric Soil Present? Yes	No Is the Sampled Area within a Wetland?	Yes ○ No ●
	No •	100 - 1.10 -
Remarks: (Explain alternative procedures here	or in a senarate renort.)	
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) ☐ Geomorphic Position (D2)
Iron Deposits (B5)	Recent Iron Reduction in Tilled Soils (C6) 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)	Utilet (Explain in Kemarks)	FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No •	Depth (inches):0	
Water Table Present? Yes O No •	Depth (inches):0	
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	drology Present? Yes O No 💿
	ring well, aerial photos, previous inspections), if ava	ailable:
Remarks:		

VEGETATION - Use scientific names of plants

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(Diet size, 20	Absolute	Dominant Indicato	r Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species? Status	Number of Dominant Species
1			That are OBL, FACW, or FAC:1 (A)
2			Total Number of Dominant
3			Species Across All Strata: 4 (B)
4			Percent of dominant Species
5		Ц	That Are OBL, FACW, or FAC: 25.0% (A/B)
6			
7	0		Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	=	Total Cover	Total % Cover of: Multiply by:
1	0		0BL speci es x 1 =0
2			FACW species 30 x 2 = 60
3			FAC species x 3 =
4			FACU species
5			UPL speci es x 5 =
6			Column Totals: 100 (A) 340 (B)
7			Prevalence Index = B/A =3.400
		Total Cover	
Herb Stratum (Plot size: 5		101111 00101	Hydrophytic Vegetation Indicators:
1 Phalaris arundinacea	30	FACW	Rapid Test for Hydrophytic Vegetation
2. Phleum pratense		✓ FACU	Dominance Test is > 50%
3. Solidago canadensis	20	✓ FACU	Prevalence Index is ≤3.0 ¹
4. Tanacetum vulgare		FACU	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5			Problematic Hydrophytic Vegetation ¹ (Explain)
6			Troblematic Hydrophytic regetation (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
11			at breast height (DBH), regardless of height.
12			
		Total Cover	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 3.20 ft (1111) tain
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			height.
	0 =	Total Cover	
			Hydrophytic Vegetation
			Present? Yes No •
Remarks: (Include photo numbers here or on a separate sho	eet.)		

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

Soil Sampling Point: u-50n20w1-b1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	epth Matrix Redox Features					_			
(inches)	Color ((moist)	%	Color (moist)	<u>%</u>	Type 1	Loc ²	Texture Remarks	
0-13	10YR	2/2	100					Loam	
13-20	10YR	3/3	100					Silt Loam	
	-	-	-					*	
								· · ·	
-									
	-								
	-		-						
Type: C=Con	centration. [D=Depletio	n. RM=Rec	duced Matrix, CS=Covere	d or Coated	d Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Matrix	
Hydric Soil I	ndicators:					·		Indicators for Problematic Hydric Soils :	3
Histosol (A1)			Polyvalue Belov	Surface (S	88) (LRR R	ı	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic Epip	pedon (A2)			MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)	
☐ Black Hist	ic (A3)			☐ Thin Dark Surfa			A 149B)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)	1
Hydrogen	Sulfide (A4))		Loamy Mucky N		LRR K, L)		Dark Surface (S7) (LRR K, L, M)	,
Stratified	Layers (A5)			Loamy Gleyed I				Polyvalue Below Surface (S8) (LRR K, L)	
Depleted	Below Dark	Surface (A	11)	Depleted Matrix				☐ Thin Dark Surface (S9) (LRR K, L)	
☐ Thick Dar	k Surface (A	12)		Redox Dark Sur				☐ Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mu	ck Mineral (S1)		Depleted Dark)		Piedmont Floodplain Soils (F19) (MLRA 149	
Sandy Gle	yed Matrix ((S4)		Redox Depressi	ons (F8)			Mesic Spodic (TA6) (MLRA 144A, 145, 149I	
Sandy Re	dox (S5)							Red Parent Material (F21)	-,
Stripped N	Matrix (S6)							Very Shallow Dark Surface (TF12)	
☐ Dark Surf	ace (S7) (LR	R R, MLRA	A 149B)					Other (Explain in Remarks)	
³ Indicators of	hvdronhvtid	vegetatio	n and wetl:	and hydrology must be p	resent unla	es disturb	ed or proble		
			ii ana weti	and flydrology mast be p	reserre, arm	33 distarb	ca or probit	erriatio.	
Restrictive L	ayer (if obs	served):							
Type:								Hydric Soil Present? Yes No •	
Depth (inc	hes):							Trydric Son Freschi: 163 C 140 C	
Remarks:									