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	NN Sampling Point: w-50n19w7-d1
Investigator(s): DPT	Section, Township, Range	: S. 7 T. 50N R. 19W
Landform (hillslope, terrace, etc.): Lowland	Local relief (concave, convex,	
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.7010 Lo	ng.: -92 47.5604
Soil Map Unit Name: B127B		NWI classification: N/A
Are climatic/hydrologic conditions on the site ty	pical for this time of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrol		al Circumstances" present? Yes No
Are Vegetation , Soil , or Hydrol		, explain any answers in Remarks.)
	•	ons, transects, important features, etc
Hydrophytic Vegetation Present? Yes Yes	No O	
Hydric Soil Present? Yes •	No Sampled Area within a Wetland?	Yes ● No ○
Wetland Hydrology Present?	No O	
Remarks: (Explain alternative procedures her	e or in a separate report.)	
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) Sodiment Deposits (B2)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Drift deposits (B3)	✓ Oxidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Presence of Reduced Iron (C4) 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)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	ottor (Explain in romans)	FAC-neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No •	Depth (inches):0	
Water Table Present? Yes No •	Depth (inches):0	
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	drology Present? Yes No
	oring well, aerial photos, previous inspections), if av	ailable:
Remarks:		
Tromana.		

VEGETATION - Use scientific names of plants

VEGETATION - USE Scientific flames of pla	ants			Sampling Point: w-50n19w7-d1
(01-4-1 20	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			Total Number of Dominant
3	0			Total Number of Dominant Species Across All Strata: 2 (B)
4				
5		П		Percent of dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7		$\overline{\Box}$		Prevalence Index worksheet:
		= Total Cove		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15		- Total Cove	•	0BL speci es 80 x 1 = 80
1	0			
2		$\overline{\Box}$		FACW species x 2 =40
3		П		FAC speci es
4		\Box		FACU species $0 \times 4 = 0$
5		$\overline{\Box}$		UPL species $0 \times 5 = 0$
6.		$\overline{\Box}$	-	Column Totals: 100 (A) 120 (B)
		П		
7				Prevalence Index = B/A = 1.200
Herb Stratum (Plot size: 5		= Total Cove	r	Hydrophytic Vegetation Indicators:
	40		OBL	Rapid Test for Hydrophytic Vegetation
1. Scirpus cyperinus		V	OBL	✓ Dominance Test is > 50%
2. Calamagrostis canadensis			OBL	✓ Prevalence Index is ≤3.0 ¹
3. Solidago gigantea	10		FACW	Morphological Adaptations ¹ (Provide supporting
4. Phalaris arundinacea			FACW	data in Remarks or on a separate sheet)
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)
6	0			
7	0			¹ Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
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				
Z.,	-	= Total Cove	-	Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30		- IOCAI COVE		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		$\overline{\Box}$		N/andraine Allegandraine and the first Confidence
4	0	$\overline{\Box}$		Woody vine - All woody vines greater than 3.28 ft in height.
4		- Total Cava		neight.
	=	= Total Cove	Г	
				Hydrophytic
				Vegetation
				Present? Yes No
Remarks: (Include photo numbers here or on a separate sl	neet.)			
•				

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

Soil Sampling Point: w-50n19w7-d1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth		Matrix				dox Featı			_			
(inches)	Color (moist)	%	Color (moist)	%_	Type ¹	Loc²	Texture	Remarks		
0-6	10YR	3/1	95	10YR	4/4	5	C	PL	Silty Clay Loam			
6-20	10YR	4/2	85	10YR	4/6	15	С	М	Silt Loam			
						-						
									-			
		-										
						-						
			-	-	-	-						
1 Type: C=Cond	entration. D	=Depletio	n. RM=Red	uced Matrix. (CS=Covere	ed or Coat	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=N	 latrix		
Hydric Soil I		_ opioilo				Jour						
Histosol (A				Polya	value Rolo	N Surface	(S8) (LRR	2	_	ematic Hydric Soils: ³		
	pedon (A2)				4 149B)	v Juliace	(30) (LIKIK	Χ,		(LRR K, L, MLRA 149B)		
Black Histi				Thin	Dark Surfa	ace (S9) (LRR R, MLI	RA 149B)		ox (A16) (LRR K, L, R)		
_	Sulfide (A4)			Loan	ny Mucky M	Mineral (F1) LRR K, L)		or Peat (S3) (LRR K, L, R)		
	Layers (A5)			Loan	ny Gleyed	Matrix (F2)		Dark Surface (S7)			
	Below Dark :	Surface (A	11)	✓ Depl	eted Matri	x (F3)				urface (S8) (LRR K, L)		
	k Surface (A		,	✓ Redo	x Dark Su	rface (F6)			Thin Dark Surface			
	ck Mineral (S			☐ Depl	eted Dark	Surface (F	7)			Masses (F12) (LRR K, L, R)		
	yed Matrix (Redo	x Depress	ions (F8)				nin Soils (F19) (MLRA 149B)		
Sandy Red		,							_	6) (MLRA 144A, 145, 149B)		
Stripped N									Red Parent Materi			
	ace (S7) (LR	R R. MLRA	(149B)						Very Shallow Dark			
									Other (Explain in	Remarks)		
³ Indicators of	hydrophytic	vegetatio	n and wetla	ind hydrology	must be p	resent, ur	iless distur	bed or probl	ematic.			
Restrictive La	ayer (if obs	erved):										
Type:												
Depth (inch	nes):								Hydric Soil Present?	Yes ● No ○		
Remarks:												