WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City/County: St. Louis	Samplin	ng Date: 14-Sep-17
Applicant/Owner: Enbridge		State: N	IN Sampling Point:	w-50n19w16-a3
Investigator(s): DPT		Section, Township, Range	S. 16 T. 50N	R. 19W
Landform (hillslope, terrace, etc.): Lov	vland	Local relief (concave, convex,		Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	Lat.: A	46 48.6177 Lo	••••••••••••••••••••••••••••••••••••••	Datum: NAD 83
Soil Map Unit Name: F175A			NWI classification:	PFOB
Are climatic/hydrologic conditions on th	e site typical for this time of ye	ear? Yes No	(If no, explain in Remarks	s.)
			al Circumstances" present?	Yes ● No ○
		-	, explain any answers in Re	marks.)
Summary of Findings - Attac		•	• •	•
Hydrophytic Vegetation Present? Y	es No			
Hydric Soil Present? Y	es No	Is the Sampled Area within a Wetland?	Yes ● No ○	
Wetland Hydrology Present?	es No	Within a Freduita.		
Remarks: (Explain alternative procedu	ures here or in a separate repor	t.)		
Hydrology				
Wetland Hydrology Indicators:			Secondary Indicators (minim	num of 2 required)
Primary Indicators (minimum of one re			Surface Soil Cracks (B6)	
✓ Surface Water (A1)✓ High Water Table (A2)	Water-Stained Leav	• •	Drainage Patterns (B10)	
✓ High water Table (A2) ✓ Saturation (A3)	☐ Aquatic Fauna (B13☐ Marl Deposits (B15☐		✓ Moss Trim Lines (B16)✓ Dry Season Water Table	v (C2)
Water Marks (B1)	Hydrogen Sulfide O		Crayfish Burrows (C8)	; (C2)
Sediment Deposits (B2)		eres along Living Roots (C3)	Saturation Visible on Ae	rial Imagery (C9)
Drift deposits (B3)	Presence of Reduce		Stunted or Stressed Plan	0 3 . ,
☐ Algal Mat or Crust (B4)		tion in Tilled Soils (C6)	Geomorphic Position (D	• •
Iron Deposits (B5)	☐ Thin Muck Surface	(C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B	U Other (Explain in K	emarks)	Microtopographic Relief	(D4)
Sparsely Vegetated Concave Surface (B	8)		FAC-neutral Test (D5)	
Field Observations:				
Carrage Water Freedom	No Depth (inches):	0		
	No Depth (inches):	1 Watland Hy	drology Present? Yes	• No O
Saturation Present? (includes capillary fringe) Yes	No Depth (inches):	0 wetland hy	arology Present? Tes	
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos	s, previous inspections), if av	ailable:	
Remarks:				

VEGETATION - Use scientific names of plants

(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Picea mariana	80	✓	FACW	That are OBL, FACW, or FAC:3(A)
2	0			
3				Total Number of Dominant
				Species Across All Strata:3(B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 100.0% (A/B)
6				
7	0			Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)	80 =	= Total Cove	r	Total % Cover of: Multiply by:
	40		ODI	0BL speci es <u>15</u> x 1 = <u>15</u>
1. Ledum groenlandicum		✓	OBL	FACW species <u>80</u> x 2 = <u>160</u>
2	-			FAC speciles0 x 3 =0
3				FACU species $0 \times 4 = 0$
4	0			l ·
5	0			UPL speci es x 5 =
6	0			Column Totals: <u>95</u> (A) <u>175</u> (B)
7	0		-	Prevalence Index = B/A =1.842_
	10 =	= Total Cove		
Herb Stratum (Plot size: 5		- Total Gove		Hydrophytic Vegetation Indicators:
1. Carex lasiocarpa	5	✓	OBL	Rapid Test for Hydrophytic Vegetation
••			ODE	✓ Dominance Test is > 50%
2				✓ Prevalence Index is ≤3.0 ¹
3				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			1 Indicators of hydric soil and wetland hydrology must
8				be present, unless disturbed or problematic.
9				Definitions of Vegetation Strata:
10		$\overline{\Box}$		Too Wood alore 2 in (7.0 cm) or room in dispose
11				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				at bloadt height (bbh), regardiose of height.
12				Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: _30)	5 =	= Total Cove	r	greater than 3.28 ft (1m) tall
	0			Herb - All herbaceous (non-woody) plants, regardless of
1				size, and woody plants less than 3.28 ft tall.
2				, and moss, prame sees many sees in tank
3				Woody vine - All woody vines greater than 3.28 ft in
4				height.
	0 =	Total Cove	r	
				Hydrophytic
				Vegetation Present? Yes No
				Present: 103 a 110 a
Remarks: (Include photo numbers here or on a separate she	eet.)			

Sampling Point: w-50n19w16-a3

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

Soil Sampling Point: w-50n19w16-a3

Depth		Matrix			Redox Feature			_		
(inches)	Color (moist)	%	Color (moist)		Type ¹	Loc ²	Texture	Rem	narks
0-24	10YR	2/2	100					Peat		
	-	-		-				-		
								-		
	-			-						
1 Type: C=Cor	ncentration [=Denletio	n RM=Redi	iced Matrix CS=Cov	ered or Coated	Sand Grai	ns 2loca	ation: PL=Pore Lining. M=N	//atrix	
Hydric Soil					54 51 50ateu	50.10 Ora	2000			3
Hydric Soil Histosol				Delinistin p	love Curt (C	0) (1 PP P		Indicators for Prob	ematic Hydri	c Soils : °
				MLRA 149B)	low Surface (St	8) (LRR R,		2 cm Muck (A10)	(LRR K, L, MLR	RA 149B)
	ipedon (A2)				ırface (S9) (LR	R R MIRA	149B)	Coast Prairie Red	ox (A16) (LRR I	K, L, R)
☐ Black His					y Mineral (F1) I		, , ,	5 cm Mucky Peat	or Peat (S3) (L	.RR K, L, R)
	n Sulfide (A4)				ed Matrix (F2)	LIXIX IX, L)		☐ Dark Surface (S7) (LRR K, L, M)	
	Layers (A5)			Depleted Ma				Polyvalue Below	Surface (S8) (LF	RR K, L)
	Below Dark		11)					Thin Dark Surface	e (S9) (LRR K,	L)
Thick Da	rk Surface (A	12)		Redox Dark				Iron-Manganese		
Sandy M	uck Mineral (S1)			rk Surface (F7)			Piedmont Floodpl		
Sandy GI	eyed Matrix ((S4)		Redox Depre	essions (F8)			☐ Mesic Spodic (TA		
Sandy Re	edox (S5)							Red Parent Mater		, 110, 1170)
Stripped	Matrix (S6)							Very Shallow Dar		D)
☐ Dark Sur	face (S7) (LR	R R, MLRA	149B)					Other (Explain in		-)
									Remarks)	
Indicators of	or nyaropnytic	vegetatio	n and wetia	nd hydrology must b	e present, unie	ss aisturbe	ea or proble	ematic.		
Restrictive I	ayer (if obs	erved):								
Type: _										
Depth (inc	ches):							Hydric Soil Present?	Yes 💿	No O
Remarks:										
rtorrarts.										