WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22		City	y/County: S	t. Louis		Samplin	g Date: 14-Sep-17
Applicant/Owner: Enbridge				State: MN	Sa	mpling Point:	w-50n19w17-d1
Investigator(s): DPT			Section, Tow	nship, Range:	s. 17	T. 50N	R. 19W
Landform (hillslope, terrace, etc.):	Lowland		•	cave, convex, n		ncave	Slope: 0.0 % / 0.0 °
Subregion (LRR or MLRA): LRR K	-	Lat.: 46 A	48.9849	Long	 -92 46	.2782	Datum: NAD 83
Soil Map Unit Name: F141D					NWI	classification:	N/A
Are climatic/hydrologic conditions of	on the site ty	pical for this time of year?	? Yes	● No ○	(If no, ex	plain in Remarks	s.)
Are Vegetation \Box , Soil \Box	, or Hydrold					nces" present?	Yes ● No ○
Are Vegetation, Soil	, or Hydrolo					y answers in Ren	narks.)
Summary of Findings - At					-	•	•
Hydrophytic Vegetation Present?	Yes •	No O					
Hydric Soil Present?	Yes	No O		ampled Area Wetland?	Yes ●	No O	
Wetland Hydrology Present?	Yes 💿	No O	Within	I Wellanu:	•	100 -	
Remarks: (Explain alternative pro	cedures here	or in a senarate report.)					
Hydrology							
Wetland Hydrology Indicators:						Indicators (minim	um of 2 required)
Primary Indicators (minimum of o	ne required;					ce Soil Cracks (B6)	
Surface Water (A1) High Water Table (A2)		Water-Stained Leaves☐ Aquatic Fauna (B13)	(B9)		_	age Patterns (B10) Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)				eason Water Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odor	· (C1)			sh Burrows (C8)	(02)
Sediment Deposits (B2)		Oxidized Rhizospheres		oots (C3)		ation Visible on Aer	rial Imagery (C9)
Drift deposits (B3)		Presence of Reduced I		,	Stunte	ed or Stressed Plan	nts (D1)
Algal Mat or Crust (B4)		Recent Iron Reduction		(C6)	✓ Geom	orphic Position (D2	2)
Iron Deposits (B5)		Thin Muck Surface (C7)	")			w Aquitard (D3)	
Inundation Visible on Aerial Image		Other (Explain in Rema	arks)			topographic Relief	(D4)
Sparsely Vegetated Concave Surfa	;e (88)				▼ FAC-n	eutral Test (D5)	
Field Observations: Surface Water Present? Yes	O No ●						
		Depth (inches):					
Water Table Present? Yes		Depth (inches):	0	Wetland Hydr	ology Pres	sent? Yes	No O
Saturation Present? (includes capillary fringe) Yes	No 💿	Depth (inches):	0	,	0.05,		
Describe Recorded Data (stream g	auge, monito	oring well, aerial photos, p	orevious inspe	ections), if avail	able:		
Domarke							
Remarks:							

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla	Sampling Point: w-50n19w17-d1				
Tree Stratum (Plot size: 30)	Absolute	Dominant Species?	Indicator	Dominance Test worksheet:	
	% Cover		Status	Number of Dominant Species	
1. Fraxinus nigra		✓	FACW	That are OBL, FACW, or FAC:4(A)	
2	0			Tatal Number of Daminant	
3	0			Total Number of Dominant Species Across All Strata: 4 (B)	
4					
5				Percent of dominant Species	
6		\Box		That Are OBL, FACW, or FAC: 100.0% (A/B)	
7				Prevalence Index worksheet:	
1.		= Total Cove			
Sapling/Shrub Stratum (Plot size: 15)	60=	= Total Cove	r	Total % Cover of:	
1 Ilex verticillata	_20_	✓	FACW		
2. Ulmus americana	10	~	FACW	FACW species 100 x 2 = 200	
3	-	$\overline{\Box}$		FAC species x 3 =0	
4				FACU species $0 \times 4 = 0$	
				UPL species $0 \times 5 = 0$	
5				Column Totals: 100 (A) 200 (B)	
6					
7				Prevalence Index = B/A = 2.000	
Herb Stratum (Plot size: 5	=	= Total Cove	r	Hydrophytic Vegetation Indicators:	
	40		EA OVA	✓ Rapid Test for Hydrophytic Vegetation	
1. Carex Intumescens			FACW	✓ Dominance Test is > 50%	
2				✓ Prevalence Index is ≤3.0 ¹	
3				Morphological Adaptations ¹ (Provide supporting	
4	0			data in Remarks or on a separate sheet)	
5	0			Problematic Hydrophytic Vegetation ¹ (Explain)	
6					
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 breast height (BBH), regardless of height.	
12				Sapling/shrub - Woody plants less than 3 in. DBH and	
Woody Vine Stratum (Plot size: 30)	10=	= 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	0 0			, , , , , , , , , , , , , , , , , , ,	
3				Woody vine - All woody vines greater than 3.28 ft in	
4				height.	
		Total Cove	r		
				Hydrophytic Vegetation	
				Present? Yes No	
Remarks: (Include photo numbers here or on a separate she	not \				
remarks, friedrice buoto unimpers nere or ou a sebatate sue	,				

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

Soil Sampling Point: w-50n19w17-d1

Depth	ipaoni (De	Matrix	але мерил	cucu to		dox Featu			absence of indicators.)		
(inches)	Color	(moist)	%	Color	(moist)	%	Type 1	Loc2	Texture	Remarks	
0-3	10YR	2/1	100						Loam		
3-20	10YR	3/1	90	10YR	4/4	10	С	M	Clay Loam		
				-	-						
	-	-		-	-	-			-		
									-		
				_		-					
	-	-									
¹ Type: C=Con	centration. [D=Depletio	n. RM=Red	uced Matrix,	CS=Cover	ed or Coate	ed Sand Gra	ains ² Loca	ation: PL=Pore Lining. M=Ma	atrix	
Hydric Soil	Indicators:								Indicators for Proble	matic Hydric Soils: 3	
Histosol ((A1)			Poly	value Belo	w Surface (S8) (LRR R	₹,		LRR K, L, MLRA 149B)	
Histic Epi	pedon (A2)				A 149B)					(A16) (LRR K, L, R)	
☐ Black His	tic (A3)			_		ace (S9) (L				r Peat (S3) (LRR K, L, R)	
Hydroger	Sulfide (A4))				Mineral (F1)			Dark Surface (S7)		
Stratified	Layers (A5)					Matrix (F2)				ırface (S8) (LRR K, L)	
Depleted Below Dark Surface (A11)			.11)	☐ Depleted Matrix (F3) ✓ Redox Dark Surface (F6)					☐ Thin Dark Surface (S9) (LRR K, L)		
	k Surface (A			_			7)			asses (F12) (LRR K, L, R)	
	uck Mineral (ox Depress	Surface (F7	/)			n Soils (F19) (MLRA 149B)	
_	eyed Matrix	(S4)		∟ Reu	ox Depress	51011S (F8)			Mesic Spodic (TA6)	(MLRA 144A, 145, 149B)	
Sandy Re									Red Parent Materia	ıl (F21)	
Stripped Matrix (S6)						Very Shallow Dark Surface (TF12)					
☐ Dark Surf	face (S7) (LR	RR R, MLRA	A 149B)						Other (Explain in R	emarks)	
³ Indicators o	f hydrophyti	c vegetatio	n and wetla	nd hydrolog	y must be p	oresent, un	less disturb	ed or probl	lematic.		
Restrictive L	ayer (if ob	served):									
Type:											
Depth (inc	:hes):								Hydric Soil Present?	Yes No	
Remarks:											
Nomans.											