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: MN	Sampling Point: u-50n19w7-c1
Investigator(s): SMR	Section, Township, Range: S. 7	T. 50N R. 19W
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none	
Subregion (LRR or MLRA): LRR K	Lat.: 46 49.9718 Long.:	92 48.45 Datum: NAD 83
Soil Map Unit Name: B130D		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical fo	r this time of year? Yes No (If i	no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	•	umstances" present? Yes No
Are Vegetation , Soil , or Hydrology	7	ain any answers in Remarks.)
Summary of Findings - Attach site map		•
Hydrophytic Vegetation Present? Yes No No		· · · · · · · · · · · · · · · · · · ·
Hydric Soil Present? Yes No •	Is the Sampled Area within a Wetland?	es O No 💿
Wetland Hydrology Present? Yes ○ No ●		
Remarks: (Explain alternative procedures here or in a		
Hydrology Wetland Hydrology Indicators:	See	Ladiantary (arizing up of 2 coquired)
Primary Indicators (minimum of one required; check a		ondary Indicators (minimum of 2 required)
	ater-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
	quatic Fauna (B13)	Moss Trim Lines (B16)
	arl Deposits (B15)	Dry Season Water Table (C2)
☐ Water Marks (B1) ☐ H	ydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	xidized Rhizospheres along Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	resence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	ecent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
	nin Muck Surface (C7)	Shallow Aquitard (D3)
☐ Inundation Visible on Aerial Imagery (B7) ☐ O ☐ Sparsely Vegetated Concave Surface (B8)	ther (Explain in Remarks)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsely vegetated concave surface (bb)		rac-neutral rest (D3)
Field Observations: Surface Water Present? Yes No •	Double (inches).	
	Depth (inches): 0	
	Depth (inches):0 Wetland Hydrolog	y Present? Yes O No 💿
Saturation Present? (includes capillary fringe) Yes No •	Depth (inches): 0	•
Describe Recorded Data (stream gauge, monitoring wo	ell, aerial photos, previous inspections), if available	:
D		
Remarks:		

VEGETATION - Use scientific names of plants

vegeration - ose scientific fiames of pla	Sampling Point: u-50n19w7-c1			
(District 20	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30)	% Cover	_species: _	Status	Number of Dominant Species
1				That are OBL, FACW, or FAC:0(A)
2				Total Number of Dominant
3				Species Across All Strata:3(B)
4				Percent of dominant Species
5				That Are OBL, FACW, or FAC: 0.0% (A/B)
6				
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15)		= Total Cover		Total % Cover of: Multiply by:
1	0			0BL species 0 x 1 = 0
2				FACW species 10 x 2 = 20
3				FAC speciles 0 x 3 = 0
4				FACU species $90 \times 4 = 360$
5				UPL speci es $0 \times 5 = 0$
6				Column Totals: 100 (A) 380 (B)
7				Prevalence Index = B/A = 3.800_
		Total Cover		Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 5				Rapid Test for Hydrophytic Vegetation
1. Phleum pratense		~	FACU	Dominance Test is > 50%
2. Tanacetum vulgare			FACU	Prevalence Index is ≤3.0 ¹
3. Lotus corniculatus	40		FACU	Morphological Adaptations ¹ (Provide supporting
4. Phalaris arundinacea			FACW	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation ¹ (Explain)
6				¹ Indicators of hydric soil and wetland hydrology must
7				be present, unless disturbed or problematic.
8				Definitions of Vegetation Strata:
9				_
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		□ □ = Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and
Woody Vine Stratum (Plot size: 30)		- Iotai Covei		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	0			Woody vine - All woody vines greater than 3.28 ft in
4	0			height.
	0 =	Total Cover		
				Hudusahudia
				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-50n19w7-c1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Features									
(inches)	Color (%	Color (moist)	%_	Type ¹	Loc²	Texture	Remarks
0-13	10YR	3/3	100					Loam	
13-20	10YR	4/3	100					Silt Loam	
	-								
	-		-		-				
1 Type: C=Cond	Contration C)_Denletio	n PM-Pa	duced Matrix CS-Covers	ed or Coate	ad Sand Gr	ains 21 oca	ution: PL=Pore Lining. M=N	latriv
Hydric Soil I		pehierin	NW-NE	adoca matrix, 03-007818	ou or codi	ou Janu Gl	ania LUUd	-	
Histosol (A				Polyvalue Belov	w Surface	(S8) (I DD E)		ematic Hydric Soils: 3
	pedon (A2)			MLRA 149B)	v Juliace	(SO) (LIXIX F	.,		(LRR K, L, MLRA 149B)
Black Histi				Thin Dark Surfa	ace (S9) (LRR R, MLF	RA 149B)		ox (A16) (LRR K, L, R)
	Sulfide (A4)			Loamy Mucky N	Mineral (F1) LRR K, L)			or Peat (S3) (LRR K, L, R)
	Layers (A5)			Loamy Gleyed	Matrix (F2))		Dark Surface (S7)	urface (S8) (LRR K, L)
Depleted I	Below Dark	Surface (A	11)	Depleted Matrix				Thin Dark Surface	
☐ Thick Dark	k Surface (A	12)		Redox Dark Su					Masses (F12) (LRR K, L, R)
Sandy Mu	ck Mineral (S	S1)		Depleted Dark		7)			nin Soils (F19) (MLRA 149B)
Sandy Gle	yed Matrix ((S4)		Redox Depress	ions (F8)				o) (MLRA 144A, 145, 149B)
Sandy Red								Red Parent Materi	
Stripped N								Very Shallow Dark	
☐ Dark Surfa	ace (S7) (LR	R R, MLRA	149B)					Other (Explain in I	Remarks)
³ Indicators of	hydrophytic	vegetatio	n and wetl	and hydrology must be p	resent, un	less disturb	ed or proble	ematic.	
Restrictive La	ayer (if obs	erved):							
Type:									
Depth (inch	nes):							Hydric Soil Present?	Yes O No 💿
Remarks:									