## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: RSA 22	City/County: St. Louis	Sampling Date: 14-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-50n19w21-a1
Investigator(s): DPT	Section, Township, Range: S. 2	1 <b>T.</b> 50N <b>R.</b> 19W
Landform (hillslope, terrace, etc.): Hillside	Local relief (concave, convex, none)	
Subregion (LRR or MLRA): LRR K	Lat.: 46 48.1059 Long.: -0	92 44.7575 <b>Datum:</b> NAD 83
Soil Map Unit Name: F138D		NWI classification: N/A
Are climatic/hydrologic conditions on the site typica	al for this time of year? Yes  No (If n	o, explain in Remarks.)
Are Vegetation , Soil , or Hydrology		ımstances" present? Yes ● No ○
Are Vegetation , Soil , or Hydrology		in any answers in Remarks.)
_ , _ ,	ap showing sampling point locations, to	•
Hydrophytic Vegetation Present? Yes No	0.0	· ·
Hydric Soil Present? Yes No	Is the Sampled Area within a Wetland? Ye	s O No 💿
	within a wettand?	
Remarks: (Explain alternative procedures here or		
Hydrology  Wetland Hydrology Indicators:	Seco	ondary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; che		Surface Soil Cracks (B6)
Surface Water (A1)		Drainage Patterns (B10)
High Water Table (A2)	` '	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry Season Water Table (C2)
Water Marks (B1)		Crayfish Burrows (C8)
Sediment Deposits (B2)		Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)  Iron Deposits (B5)		Geomorphic Position (D2) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	- Other (Explain in Remarks)	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   No	Depth (inches): 0 Wetland Hydrology	y Present? Yes ○ No •
	g well, aerial photos, previous inspections), if available:	
Damanica		
Remarks:		

## **VEGETATION - Use scientific names of plants**

Deminant   Section   Deminant   Section   Se	vegeration - ose scientific fiames of pla	1163			Sampling Point: u-50n19w21-a1
1	(0) - 20				Dominance Test worksheet:
2.			Species?	Status	Number of Dominant Species
3. 4. 4. 9. 0					That are OBL, FACW, or FAC: (A)
3.					Total Number of Dominant
5.	3				
That Are OBI, FACW, or FAC: 0.0% (A/B)  7.	4	0			
6.	5	0			
Total   Scover of:   Multiply by:	6	0			That Are obe, FAGW, of FAG.
Septing/Shrub Stratum (Plot size: 15 )  2.	7	0			Prevalence Index worksheet:
1	Sanling /Shrub Stratum (Plot size: 15	0 =	Total Cover		Total % Cover of: Multiply by:
0		0			0BL speci es x 1 = 0
3.					FACW species
1					FAC speciles x 3 =0
UPL species					FACU species 90 x 4 = 360
Col umn Total s: 100 (A) 380 (B)					UPL species $0 \times 5 = 0$
Prevalence Index = B/A = 3.800					1 · · · · · · · · · · · · · · · · · · ·
Herb Stratum (Plot size: 5 )	•				
Herb Stratum (Plot size: 5 )  1. Solidago canadensis 30	<i>1</i>				Prevalence Index = B/A = 3.800
1. Solidago canadensis 2. Solidago gigantea 3. Tanacetum vulgare 4. Phleum pratense 5. Lotus corniculatus 6. O	Herb Stratum (Plot size: 5		= Total Cover		Hydrophytic Vegetation Indicators:
2. Solidago gigantea 3. Tanacetum vulgare 3. Tanacetum vulgare 4. Phieum pratense 10		20		EACH	Rapid Test for Hydrophytic Vegetation
30	••				☐ Dominance Test is > 50%
4. Phleum pratense 5. Lotus corniculatus 5. Lotus corniculatus 6					☐ Prevalence Index is $\leq$ 3.0 $^{1}$
FACU   FACU   Problematic Hydrophytic Vegetation 1 (Explain)					
Problematic hydrophytic vegetation (Explain)	E debug combodebus				l
7				FACU	☐ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
be present, unless disturbed or problematic.  be present, unless disturbed or problematic.  be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height.  Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall  Woody vine - All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes No   No   No   No   Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.					1 Indicators of hydric soil and wetland hydrology must
Definitions of Vegetation Strata:  Definitions of Vegetation Strata:  Tree - Woody plants, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall  Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine - All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present?  Yes No •					
D					Definitions of Vegetation Strata:
1					Definitions of Vegetation Strata.
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1m) tall    O					
Woody Vine Stratum (Plot size: 30 ) 100 = Total Cover  1					at breast height (DBH), regardless of height.
Woody Vine Stratum (Plot size: 30 )	2				Sapling/shrub - Woody plants less than 3 in. DBH and
1	Woody Vine Stratum (Plot size: 30 )	100 =	Total Cover		
3		0			Herb - All herbaceous (non-woody) plants, regardless of
3					
Woody vine - All woody vines greater than 3.28 ft in height.  O = Total Cover  Hydrophytic Vegetation Present? Yes ○ No ●					
O = Total Cover  Hydrophytic Vegetation Present? Yes No  No	J		$\Box$		, , , , ,
Hydrophytic Vegetation Present?  Yes No   No	4		- Total Cover		noight.
Vegetation Present? Yes No •			- Iotai Covei		
Vegetation Present? Yes No •					
Vegetation Present? Yes No •					
Vegetation Present? Yes No •					Hydrophytic
					Vegetation
emarks: (Include photo numbers here or on a separate sheet.)					Present? fes \( \text{NO} \( \text{NO} \)
emarks: (Include photo numbers here or on a separate sheet.)					
	Remarks: (Include photo numbers here or on a separate sh	eet.)			

<sup>\*</sup>Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Soil Sampling Point: u-50n19w21-a1

Depth		Matrix			Redox Feat			_	
(inches)		(moist)	%	Color (moi	st) %	Type <sup>1</sup>	Loc2	Texture	Remarks
0-14	10YR	4/4	100					Sandy Clay Loam	
14-20	10YR	4/3	95	10YR	4/6 5	С	М	Clay Loam	
							-		
	-			-			-		
							-		
	-		-						
				-			-		
	-	-							
1 Type: C=Cor	ncentration [	)=Depletio	n RM=Red	uced Matrix, CS=0	Covered or Coa	ted Sand Gr	ains 2l oca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil				acca mann, co	5010.0u 0. 00u		4		
Histosol				Polyvalue	Below Surface	(CO) (I DD I	0		ematic Hydric Soils: 3
	ipedon (A2)			MLRA 14	9B)	(30) (LIXIX I	ν,		(LRR K, L, MLRA 149B)
Black His				☐ Thin Darl	Surface (S9)	(LRR R, MLF	RA 149B)		x (A16) (LRR K, L, R)
	n Sulfide (A4)	)		Loamy M	ucky Mineral (F	1) LRR K, L)	)		or Peat (S3) (LRR K, L, R)
	Layers (A5)	,		Loamy G	leyed Matrix (F:	2)		Dark Surface (S7)	
	Below Dark	Surface (A	11)	Depleted	Matrix (F3)				urface (S8) (LRR K, L)
_	rk Surface (A		,	Redox Da	ark Surface (F6)	)		Thin Dark Surface	
	uck Mineral (			Depleted	Dark Surface (	F7)			lasses (F12) (LRR K, L, R)
	eyed Matrix			Redox De	epressions (F8)				in Soils (F19) (MLRA 149B)
	edox (S5)	(34)							) (MLRA 144A, 145, 149B)
	Matrix (S6)							Red Parent Materia	· ·
	face (S7) (LR	PRR MIRA	149R)						
								Other (Explain in R	Remarks)
Indicators of	of hydrophyti	c vegetatio	n and wetla	nd hydrology mus	st be present, u	nless disturl	oed or probl	lematic.	
Restrictive I	Layer (if obs	served):							
Type: _									
Depth (inc	ches):							Hydric Soil Present?	Yes O No 💿
Remarks:									