WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Main L3R ESC	City/County: Cass	Sampling Date: 21-Sep-17
Applicant/Owner: Enbridge	State: MN	Sampling Point: u-138n30w10-aa2
Investigator(s): SMR	Section, Township, Range: S. 10	T. 138N R. 30W
Landform (hillslope, terrace, etc.): Mound	Local relief (concave, convex, none):	
Subregion (LRR or MLRA): LRR K	Lat.: 46 46.7460 Long.: -9	04 27.6050 Datum: NAD 83
Soil Map Unit Name: W		NWI classification: N/A
Are climatic/hydrologic conditions on the site typical	for this time of year? Yes No (If no	o, explain in Remarks.)
Are Vegetation , Soil , or Hydrology	(mstances" present? Yes No
Are Vegetation , Soil , or Hydrology		in any answers in Remarks.)
_ , _ ,,	p showing sampling point locations, to	•
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes No	Complete Aven	s O No •
Wetland Hydrology Present?		
Remarks: (Explain alternative procedures here or in		
Hydrology		
Wetland Hydrology Indicators:		ndary Indicators (minimum of 2 required)
Primary Indicators (minimum of one required; chec		Surface Soil Cracks (B6)
High Water Table (A2)	` '	Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3)		Dry Season Water Table (C2)
Water Marks (B1)		Crayfish Burrows (C8)
Sediment Deposits (B2)		Saturation Visible on Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	` ′	Geomorphic Position (D2)
Iron Deposits (B5)	——————————————————————————————————————	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8)	Circi (Explain in Kerians)	Microtopographic Relief (D4) FAC-neutral Test (D5)
Sparsery vegetated consider surface (56)		Ac-neutral rest (D3)
Field Observations: Surface Water Present? Yes No No	Depth (inches): 0	
	Depth (inches):0 Wetland Hydrology	Present? Yes O No 💿
(includes capillary fringe) Yes Vo	Depth (inches): 0	
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if available:	
Demonde		
Remarks:		

VEGETATION - Use scientific names of plants

VEGETATION - OSE SCIENTIFIC Harries of pro-	Sampling Point: u-138n30w10-aa2					
(0)	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30)	% Cover	Species?	Status	Number of Dominant Species		
1	0			That are OBL, FACW, or FAC:1 (A)		
2	0			Total Number of Dominant		
3	0			Total Number of Dominant Species Across All Strata: 4 (B)		
4	0					
5				Percent of dominant Species		
6				That Are OBL, FACW, or FAC: 25.0% (A/B)		
7		$\bar{\Box}$		Prevalence Index worksheet:		
		= Total Cove		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15)		- Total Cove	•	0BL species0 x 1 = _0		
1 Corylus cornuta	70	✓	FACU	FACW species 20 x 2 = 40		
2. Rubus idaeus	30	✓	FACU			
3	0		-	FAC species $0 \times 3 = 0$		
4				FACU species $\frac{120}{}$ x 4 = $\frac{480}{}$		
5				UPL speci es $0 \times 5 = 0$		
6				Column Totals: <u>140</u> (A) <u>520</u> (B)		
•				Dravalance Index D/A 2.714		
7				Prevalence Index = B/A = 3.714		
Herb Stratum (Plot size: 5	100 =	= Total Cove	Г	Hydrophytic Vegetation Indicators:		
	20	✓	FACU	Rapid Test for Hydrophytic Vegetation		
0.00.1.1		✓		☐ Dominance Test is > 50%		
2. Phalaris arundinacea			FACW	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			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
8	0					
9	0			Definitions of Vegetation Strata:		
10				Tree - Woody plants, 3 in. (7.6 cm) or more in diameter		
1				at breast height (DBH), regardless of height.		
12.		H				
		= Total Cove		Sapling/shrub - Woody plants less than 3 in. DBH and		
Woody Vine Stratum (Plot size: 30)			-	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				Woody vine - All woody vines greater than 3.28 ft in		
4	0			height.		
Т.	0 =	= Total Cove		l		
		- rotar cove	•			
				Hydrophytic		
				Vegetation		
				Present? Yes ○ No ●		
Remarks: (Include photo numbers here or on a separate si	heet.)					

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

Soil Sampling Point: u-138n30w10-aa2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	Matrix Redox Features					_						
(inches)	Color (moist)	%_	Color (moist)	%_	Type 1	Loc ²	Texture	Rem	arks	
0-6	10YR	2/2	100						Sandy Loam			
6-18	10YR	3/3	100						Sand			
18-20		3/2	90	10YR	3/4	10			Sand	-		
		- 3/2							Juliu			
										_		
			-		_			-				
		-										
				-	-	-						
										_		
¹ Type: C=Cond	centration. D	=Depletio	n. RM=Red	duced Matrix,	CS=Covere	ed or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=			
Hydric Soil I											Soile : 3	
Histosol (A				Polv	value Belov	w Surface ((S8) (LRR F	₹.	Indicators for Pro			
	pedon (A2)				A 149B)		(00) (2	-1) (LRR K, L, MLR		
Black Histi				Thin	Dark Surfa	ace (S9) (l	LRR R, MLF	RA 149B)		dox (A16) (LRR I		
_	Sulfide (A4)			Loar	ny Mucky I	Mineral (F1) LRR K, L))	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)			
	Layers (A5)			Loar	ny Gleyed	Matrix (F2)			Dark Surface (S7) (LRR K, L, M)			
	Below Dark S	Surface (A	11)	Dep	eted Matri	x (F3)			☐ Polyvalue Below Surface (S8) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L)			
	k Surface (A1			Rede	ox Dark Su	rface (F6)						
	ck Mineral (S			Dep	eted Dark	Surface (F	7)			Masses (F12) (L		
	yed Matrix (Red	ox Depress	ions (F8)			☐ Piedmont Floodplain Soils (F19) (MLRA 149B) ☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy Red									Red Parent Mate		, 145, 1496)	
Stripped N									_	rk Surface (TF12	N	
	ace (S7) (LRF	R R, MLRA	149B)						Other (Explain in		.)	
³ Indicators of				and budgalage	mount be m	rocent un	اممم طاملانيدا	and or proble		i Remarks)		
			n and well	and nydrology	must be p	resent, un	iess disturi	bea or proble	еттанс.			
Restrictive La	ayer (if obs	erved):										
Type:									Hydric Soil Present?	V (No •	
Depth (inch	nes):								Hydric Soil Presents	Yes 🔾	NO S	
Remarks:												
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