WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: I3_mainline	te: <u>I3_mainline</u> City/County: <u>Clearwater</u>			Sampling Date: 2017-06-19					
Applicant/Owner: Enbridge			State: Minnesota	Sampling Point: w-146n37w12-b2					
Investigator(s): DPT, MRG		Section, Township, Range: S12, T146N, R37W							
Landform (hillslope, terrace, etc.): Dep	ression		Local Relief (concave		Slope 0-2%				
· · · · · · · · · · · · · · · · · · ·			7.4770965520						
Subregion (LRR or MLRA):		Latitude. 4	7.4770903320	Longitude: <u>-95.29962</u>					
Soil Map Unit Name: 40C					Classification: PEMC				
Are climatic/hydrologic conditions on	the site typical	I for this time of year? (if no, explain in Remar	rks):	Yes				
Are Vegetation No , Soil No , or I	Hydrology No	_ significantly disturbed	d? Are "Normal Circur	mstances" present? Yes	<u>S</u>				
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks)									
SUMMARY OF FINDINGS - Attach s	ite map showi	ing sampling point loca	tions, transects, impo	rtant features, etc.					
Hydrophytic Vegetation Present?		Yes	Is the Sampled Area						
Hydric Soil Present?		Yes	within a Wetland?		Yes				
Wetland Hydrology Present?		Yes	If yes, optional Wetla	and Site ID:	w-146 n37w1	2-b			
HYDROLOGY									
Wetland Hydrology Indicators:				Secondary Inc	dicators (minimum of	two required)			
Primary Indicators (minimum of one is	required: che	eck all that apply)		Surf	face Soil Cracks (B6)				
yes Surface Water (A1)	Water-Stained Leaves	: (R9)		Drainage Patterns (B10)					
yes High Water Table (A2)	_		Aquatic Fauna (B13)		Moss Trim Lines (B16)				
yes Saturation (A3)	Marl Deposits (B15)				Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfic		or (C1)		Crayfish Burrows (C8)				
Sediment Deposits (B2)		Oxidized Rhizosphere			Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Presence of Reduced Iron (C4)			Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)		Recent Iron Reduction	n in Tilled Soils (C6)	yes Geon	yes Geomorphic Position (D2)				
Iron Deposits (B5)		Thin Muck Surface (C	7)	Shallo	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Remarks)		Micro	Microto pographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)				yes _{FAC-1}	yes FAC-Neutral Test (D5)				
Field Observations:									
Surface Water Present?	Yes	Depth (inches)	4						
Water Table Present?	Yes	Depth (inches) 0							
Saturation Present?	Yes	Depth (inches)	0	Wetland Hydrolo	ogy Present?	Yes			
(includes capillary fringe)									
Describe Recorded Data (stream gaug	e, monitoring	well, aerial photos, pre	vious inspections), if a	vailable:					
Remarks:									
Thermarks.									

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Num ber of Do minant Species		
1. Fraxinus nigra	60.00	Yes	FACW	That Are OBL, FACW, or FAC: 5 (A)		
2. Populus tremuloides	10.00	No	FAC	Total Number of Dominant		
3.		- '		Species Across All Strata: 5 (B)		
4.				Percent of Do minant Species		
5.				That Are OBL, FACW, or FAC: 100 (A/B)		
6.				Prevalence Index worksheet:		
7				Total % Cover of: Multiply by:		
	70	= Total Cover		OBL species 60.00 x 1 60		
	· · ·	Total cover		FACW species 130.00 x 2 260		
1. Fraxinus nigra	20.00	Yes	FACW	FACU species 0.00 x 3 0		
2. Alnus incana	10.00	Yes	FACW	UPL species 0.00 x 4 0		
	20.00					
				Column Totals $\underline{200}$ (A) $\underline{350}$ (B) Prevalence Index = B/A = 1.75		
4		· -				
5				Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7				yes 2 - Dominance Test is > 50%		
_	30	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 ¹		
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)		
1. Ono clea sensi bil is	40.00	Yes	FACW			
2. Carex lacustris	30.00	Yes	OBL	Problematic Hydrophytic Vegetation ¹ (Explain)		
3. Iris versicolor	30.00	Yes	OBL	Indicators of hydrics oil and wetland hydrology must be present, unless disturbed		
4			<u> </u>	or problematic.		
5				Definitions of Vegetation Strata:		
6						
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast		
8			- · ·	height (DB H), regardless of height.		
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
10						
10			·	Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
11	-	- ·				
12.	100	Tatal Causa				
20	100	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
Woody Vine Stratum (Plot Size: 30)						
1		-	-			
2				Hydrophytic Vegetation		
3		-		Present? Yes		
4						
	0	_=Total Cover				
Remarks: (include photo numbers here or on a separate sheet.)					

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