WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: 13_mainline	City/County: Clearwater		Sampling Date: <u>2017-06-19</u>				
Applicant/Owner: Enbridge	State: Minnesota		Sampling Point: w-146n36w7-e3				
Investigator(s): SMR, MRG	Section, Township, Range: S7, T146N, R36W						
Landform (hillslope, terrace, etc.): Depression Subregion (LRR or MLRA): Soil Map Unit Name: 40C Are climatic/hydrologic conditions on the site typica Are Vegetation No , Soil No , or Hydrology No Are Vegetation No , Soil No , or Hydrology No	Latitude: <u>4</u> I for this time of year? (i significantly disturbed	Local Relief (concave, co 7.4766784208 Lo if no, explain in Remarks d? Are "Normal Circums	Slope (%): onvex, none): CC ongitude: -95.29387651 Datum: NAD83 NWI Classification: PSS1C Yes tances" present? Yes				
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: (Explain alternative procedures here or in	Yes Yes Yes Yes a a separate report.)	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yesd Site ID: w-146n36w7-e				
LIVERGLOCY							
HYDROLOGY			Cocondan, Indicators (minimum of two yearsized)				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; che	Surface Soil Cracks (B6)						
yes Surface Water (A1)	Wat er-Stain ed Leaves	s (B9)	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 Sulfide Odo		Crayfish Burrows (C8)				
Sediment Deposits (B2)	Oxidized Rhizosphere		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced		Stunted/Stressed Plants (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction		<u>yes</u> Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rem	iarks)	Microto pographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)			<u>yes</u> FAC-Neutral Test (D5)				
Field Observations: Surface Water Present? Yes	Danth (in the sa)	2					
Surface Water Present? Yes Water Table Present? Yes	Depth (inches) 3						
Saturation Present? Yes	Depth (inches) 0 Depth (inches) 0		Wetland Hydrology Present? Yes				
	Depth (inches)	<u> </u>	Wetland Hydrology Present? Yes				
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring	wall parial photos prov	vious inspostions) if avai	lable				
Describe Recorded Data (stream gauge, monitoring	wen, aeriai priotos, prev	vious irispections), ii avai	lable.				
Remarks:							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Num ber of Do minant Species
1.				That Are OBL, FACW, or FAC: 4 (A)
2.				Total Number of Dominant
3				Species Across All Strata: 4 (B)
4.			-	Percent of Dominant Species
		-		That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7			-	Total % Cover of: Multiply by:
	0	_ = Total Cover		OBL species <u>30.00</u> x 1 <u>30</u>
Sapling/Shrub Stratum (Plot Size: 15)				FACW species <u>100.00</u> x 2 <u>200</u>
1. Alnus incana	30.00	Yes	FACW	FACU species <u>0.00</u> x 3 <u>0</u>
2				UPL species <u>0.00</u> x 4 <u>0</u>
3				Column Totals <u>130</u> (A) <u>230</u> (B)
4.				Prevalence Index = B/A = <u>1.7692307</u>
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
				yes 2 - Dominance Test is > 50%
7	30	- Total Cover		yes 3 - Prevalence Index is $\leq 3.0^{1}$
	30	= Total Cover		
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
1. Phalaris arundinacea	40.00	Yes	FACW	-
2. Equisetum hyemale	30.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Carex lacustris	20.00	Yes	OBL	1 Indicators of hydricsoil and wetland hydrology must be present, unless disturbed
4. Carex stricta	10.00	<u>No</u>	OBL	or problematic.
5			_	Definitions of Vegetation Strata:
6			_	
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
8.				height (DBH), regardless of height.
			_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or
9			_	equal to 3.28 ft (1 m) tall.
10		_	_	
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12		_	_	woody plants less than 3.20 it tall.
	100	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30)				
1.				
			_	Hydrophytic
2		_	_	Vegetation
3				Present? Yes Yes
4		_	_	
	0	_=Total Cover		
Remarks: (in clude photo num bers here or on a separate sheet.	.)			
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