## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: 13_mainline		City/County: Aitkin			Sampling Date: <u>2017-06-26</u>				
Applicant/Owner: Enbridge		State: Minnesota			Sampling Point: u-51n26w31-bc2				
Investigator(s): SMR, DPT Section, Township, Range: S31, T51N, R26W									
						Slope (%):			
Landform (hillslope, terrace, etc.): Rise	2		Local Relief (concave,	_		3-7%			
Subregion (LRR or MLRA):	Latitude: <u>46.8564499402</u> Longitude: <u>-</u> 9			57942272 Datum					
Soil Map Unit Name: 504C					NWI Classification:	N/A			
Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks):									
Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes									
Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (If needed, explain any answers in Remarks)									
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present?		<u>No</u>	Is the Sampled Area	Area					
Hydric Soil Present?	dric Soil Present?		No within a Wetland?		<u>No</u>				
Wetland Hydrology Present?	etland Hydrology Present?		No If yes, optional Wetland Site ID:						
Remarks: (Explain alternative proced	ures here or ir	n a separate report.)	,						
WETS analysis found precipitation is	below norma	ıl.							
HYDROLOGY									
Wetland Hydrology Indicators:				Seconda	ary Indicators (minim	um of two required)			
Primary Indicators (minimum of one is	required; ch	eck all that apply)			_ Surface Soil Cracks (B6	5)			
Surface Water (A1)		Water-Stained Leaves (B9)			Drainage Patterns (B10)				
High Water Table (A2)		Aquatic Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A3)		Marl Deposits (B15)		Dry-Season Water Table (C2)					
<del></del>		Hydrogen Sulfide Odd		Crayfish Burrows (C8)					
Sediment Deposits (B2)		Oxidized Rhizosphere	s on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Presence of Reduced		Stunted/Stressed Plants (D1)					
Algal Mat or Crust (B4)		Recent Iron Reduction		Geomorphic Position (D2)					
Iron Deposits (B5)			Thin Muck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Rem		Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (					FAC-Neutral Test (D5)				
Field Observations:					=				
Surface Water Present?	No	Depth (inches)							
Water Table Present?	No	Depth (inches)							
Saturation Present?	No	Depth (inches)		Wetland Hy	drology Present?	No			
(includes capillary fringe)		- op ()							
Describe Recorded Data (stream gaug	e monitoring	well serial photos prev	ious inspections) if a	vailable:					
Describe Recorded Data (stream gaug	e, monitoring	wen, aeriai priotos, pre	vious irispections), ir av	valiable.					
Remarks:									
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	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot Size: 30 )	% Cover	Species?	Status	Num ber of Do minant Species		
1. Quercus rubra	60.00	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)		
2. Acer saccharum	20.00	Yes	UPL	Total Number of Dominant		
3.				Species Across All Strata: 7(B)		
4.				Percent of Do minant Species		
5.				That Are OBL, FACW, or FAC: 0 (A/B)		
6.				Prevalence Index worksheet:		
7		•		Total % Cover of: Multiply by:		
	80	= Total Cover		OBL species 0.00 x 1 0		
		Total cover		FACW species 0.00 x 2 0		
1. Corylus cornuta	30.00	Yes	UPL	FACU species 160.00 x 3 640		
2. Acer saccharum	15.00	Yes	UPL	UPL species 65.00 x 4 325		
3.			<u></u>	Column Totals 225 (A) 965 (B)		
		-		Prevalence Index = B/A = 4.2888888		
4						
5				Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7				no 2 - Dominance Test is > 50%		
	45	= Total Cover		no 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>		
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations (Provide		
1. Eurybia macrophylla	30.00	Yes	FACU	supporting datain Remarks or on a separate sheet)		
2. Pteridium aquilinum	30.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
3. Galium boreale	20.00	Yes	FACU	Indicators of hydrics oil and wetland hydro bgy must be present, unless disturbed		
4. Aralia nu dicaulis	20.00	Yes	FACU	or pro blematic.		
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.		
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.		
40						
10				Herb - All herbaeceous (non-woody) plants, regardless of size, and		
11				woody plants less than 3.28 ft tall.		
12	100		-			
	100	_ = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.		
Woody Vine Stratum (Plot Size: 30 )						
1		-				
2				Hydrop hytic Vege tation		
3		_		Present? No No		
4		_				
	0	_=Total Cover				
Remarks: (in clude photo numbers here or on a separate sheet.	)		;			
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