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

Project/Site: <u>I3_mainline</u>	Ci	ity/County: Hubbard			Sampling Date: 201	7-06-09
Applicant/Owner: Enbridge			State: Minnesota	Sampling Point: w-141n35w20-d1		
Investigator(s): SMR, DPT		Section, Township, Range: S20, T141N, R35W				
Landform (hillslope, terrace, etc.): Dip			Local Relief (concave			lope (%): 3-7%
			7.0146097895	_		
Subregion (LRR or MLRA):		Latitude. 4	7.0140037833	Longitude55.1		
Soil Map Unit Name: 1127B		f f			NWI Classification: $\frac{N}{N}$	
Are climatic/hydrologic conditions on th	e site typical	for this time of year? (	if no, explain in Remar	rks):		<u>es</u>
Are Vegetation No , Soil No , or Hy	drology No	_ significantly disturbed	d? Are "Normal Circur	mstances" presen	t? Yes	
Are Vegetation No , Soil No , or Hydr	ology <u>No</u> ı	naturally problematic?	(If needed, explain ar	ny answers in Ren	narks)	
SUMMARY OF FINDINGS - Attach site	e map showi	ng sampling point loca	tions, transects, impo	rtant features, et	c.	
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-141 n35w20-d	
Remarks: (Explain alternative procedur	es here or in	a separate report.)	,			
No digging allowed do to potential util	ities present	<b>:.</b>				
HYDROLOGY						
Wetland Hydrology Indicators:				Seconda	ary Indicators (minimu	m of two required)
		al all that and A				
Primary Indicators (minimum of one is r	<u>equirea; cne</u>				_ Surface Soil Cracks (B6)	
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)	
Water Marks (B1)	_	Hydrogen Sulfide Odor (C1)			Crayfish Burrows (C8)	
Sediment Deposits (B2)	_	<del></del>	Oxidized Rhizospheres on Living Roots (C3)		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 in Tilled Soils (C6)		yes	<u>Yes</u> Geomorphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface (C7)			Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)		Other (Explain in Remarks)			Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8	)			yes_	_FAC-Neutral Test (D5)	
Field Observations:	No	5 .1 (; 1 )				
Surface Water Present?	<u>No</u>	Depth (inches)				
Water Table Present?		Depth (inches)				
Saturation Present?		Depth (inches)		Wetland Hy	drology Present?	<u>Yes</u>
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring v	well, aerial photos, pre	vious inspections), if a	vailable:		
Remarks:						
No digging allowed due to potential util	ities. Water 1	table and saturation co	uld not be verified.			
<u> </u>						

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: 30	% Cover	Species?	Status	Num ber of Do minant Species	
1. Populus tremuloides	30.00	Yes	FAC	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	
5.	-			That Are OBL, FACW, or FAC: 100 (A/B)	
				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
	30	= Total Cover		OBL species 0.00 x 1 0	
Sapling/Shrub Stratum (Plot Size: 15	30	_ = Total cover		FACW species 120.00 x 2 240	
1. Salix bebbiana	30.00	Yes	FACW	FACU species 0.00 x 3 0	
2. Populus tremuloides	20.00	Yes	FAC		
3. Corylus cornuta	10.00	No No	UPL		
4. Cornus obliqua	10.00	No	FACW	Column Totals <u>190</u> (A) <u>470</u> (B)  Prevalence Index = B/A = <u>2.4736842</u>	
	10.00	NO			
5				Hydrophytic Vegetation Indicators:	
6		·		1 - Rapid Test for Hydrophytic Vegetation	
7				yes 2 - Dominance Test is > 50%	
_	70	= Total Cover		yes 3 - Prevalence Index is ≤ 3.0 <sup>1</sup>	
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)	
1. Calamagrostis canadensis	50.00	Yes	FACW		
2. Onoclea sensi bil is	30.00	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
3. Solidago gigantea	10.00	No	FAC	1 Indicators of hydrics oil and wetland hydro bgy must be present, unless disturbed	
4				or problematic.	
5				Definitions of Vegetation Strata:	
6					
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.	
8				nicigiti (DB11), regai diess of neight.	
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.	
10					
11.				<b>Herb</b> - All herbaeceous (non-woody) plants, regardless of size, and	
12.			-	woody plants less than 3.28 ft tall.	
	90	= Total Cover	-	Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30	30	_ = Total Cover		woody vines greater trian 3.20 ft in neight.	
1				11	
2				Hydrop hytic Vege tation	
3	_			Present? <u>Yes</u>	
4		-			
	0	_=Total Cover	:		
Remarks: (in clude photo numbers here or on a separate sheet.	)				

OIL		Sampling Point: w-141n35w20-
· ·	epth needed to document the indicator or con	nfirm the absence of indicators.)
epth Matrix	Redox Features	
inches) Color (moist)	% Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture Remarks
Type: C=Concentration, D=Depletion, RM=Rec	duced Matrix, MS=Masked Sand Grains.	Location: PL=Pore Lining, M=M
Hydric Soil Indicators:		Indicators for Problematic Hydric Soil <sup>3</sup> :
Histosol (A1)	Polyvalue Below Surface (S8) (LRR R, 149B)	, MLRA
Histic Epipedon (A2)	Thin Dark Surface (S9) (LRR R, MLRA	(A149B) Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)	Loamy Mucky Mineral (F1) (LRR K, L)	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Dark Surface (S7) (LRR K, M)
Stratified Layers (A5)	Depleted Matrix (F3)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11)	Red ox Dark Surface (F6)	Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	Iron-Maganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)		Red Parent Material (F21)
Stripped Matrix (S6)		Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)		Other (explain in remarks)
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes
Remarks:		
No digging permitted. Hydric soils assumed ba	ased on hydrology and vegetation.	
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