WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: I3_mainline	City/County: Carlton	City/County: Carlton		Sampling Date: <u>2017-06-07</u>	
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: CF	RR5 1007a 20U	
Investigator(s): DPT, SMR	Section, Township,	, Range: S3, T47N, R18W			
L IS (Lill L L L L L L L L L L L L L L L L L L		1.01:57)	Slope (%):	
Landform (hillslope, terrace, etc.): Side Slope		Local Relief (concave, cor		8-15%	
Subregion (LRR or MLRA):	Latitude: 4	46.5810219850 Lor	ngitude: <u>-92.60893098</u> Datum		
Soil Map Unit Name: 502			NWI Classification:	PFO4B	
Are climatic/hydrologic conditions on the site	typical for this time of year?	(if no, explain in Remarks):		No	
Are Vegetation No , Soil No , or Hydrolog	gy <u>No</u> significantly disturbe	ed? Are "Normal Circumsta	inces" present? Yes		
Are Vegetation No_, Soil No_, or Hydrology	No naturally problematic?	(If needed, explain any a	nswers in Remarks)		
SUMMARY OF FINDINGS - Attach site map	showing sampling point loca	ations, transects, importan	nt features, etc.		
Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Area			
Hydric Soil Present?	No	within a Wetland?	No	<u>No</u>	
Wetland Hydrology Present?	No	If yes, optional Wetland	Site ID:	e ID:	
Remarks: (Explain alternative procedures here	e or in a separate report.)	1			
WETS analysis shows precipitation below no	rmal.				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (minim	um of two required)	
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks (B6	5)	
Surface Water (A1)	Water-Stained Leave	es (B9)	Drainage Patterns (B10	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 Od	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizosphere	Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced	Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction	Recent Iron Reduction in Tilled Soils (C6)		Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rer	Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D5)		
Field Observations:					
Surface Water Present?	O Depth (inches	s)			
Water Table Present? N	O Depth (inches				
Saturation Present? N	O Depth (inches		Wetland Hydrology Present?	No	
(includes capillary fringe)		, <u> </u>	,		
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	evious inspections), if availa	ible:		
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Remarks:					

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species
1. Tilia americana	40.00	Yes	FACU	That Are OBL, FACW, or FAC: 1 (A)
2. Populus tremuloides	20.00	Yes	FAC	Total Number of Dominant
3. Fraxinus nigra	5.00	No	FACW	Species Across All Strata: 4 (B)
4		_		Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 25 (A/B)
6.				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	65	= Total Cover		OBL species 0.00 x 1 0
		_		FACW species 5.00 x 2 10
1. Corylus cornuta	30.00	Yes	UPL	FACU species 140.00 x 3 560
2. Populus tremuloides	10.00	Yes	FAC	UPL species <u>30.00</u> x 4 <u>150</u>
3.				Column Totals 205 (A) 810 (B)
4.		_	-	Prevalence Index = B/A = 3.9512195
5.				Hydrophytic Vegetation Indicators:
		_		
6		-		1 - Rapid Test for Hydrophytic Vegetation
7	40			no 2 - Dominance Test is > 50% no 3 - Prevalence Index is $\leq 3.0^1$
_	40	_ = Total Cover		
Herb Stratum (Plot Size: 5				4 - Morph ological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Eurybia macrophylla	80.00	Yes	FACU	-
2. Aralia nudicaulis	10.00	No No	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Pteridium aqui linum	10.00	No	FACU	1 Indicators of hydric soil and wetland hydro logy 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				- Treight (DBH), regai diess of height.
9			_	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or
10				equal to 3.28 ft (1 m) tall.
11.	_		_	Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.			_	woody plants less than 3.28 ft tall.
	100	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30)		_ = 10ta1 cove1		7 m woody vines greater than 5.25 fem neight.
1				1
2			-1-	Hydrophytic Vegetation
3			<u> </u>	Present? No No
4				
	0	_=Total Cover		
Remarks: (include photo numbers here or on a separate sheet	.)			

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OIL						Sampling Point: CRR51007a20U		
rofile Description: (Describe to the d	epth need			onfirm th	ne absence of indica	itors.)		
epth Matrix		Redox Fea		า				
inches) Color (moist)	%	Color (moist)	% Type ¹	Loc ²		Remarks		
0-10 10YR 2 1	100				FSL			
10-24 10YR 4 3	100				FSL			
	·							
	·							
Type: C=Concentration, D=Depletion, RM=Re	——— — educed Mat					² Location: PL=Pore Lining, M=Mat		
Hydric Soil Indicators:	- Tuuccu	TA, IVIO-IVIONEGE ZENZ	·-		Indicators for Pro	blematic Hydric Soil ³ :		
		Polyvalue Below Surf	face (S8) (LRR	R, MLRA	—	•		
Histosol (A1)		☐ 149B)	· · ·	:	\vdash	A10) (LRR K, L, MLRA 149B)		
Histic Epipedon (A2)		☐ Thin Dark Surface (SS			\vdash	Redox (A16)(LRR K, L, R)		
□ Black Histic (A3)		Loamy Mucky Minera		L)	\vdash	Peat or Peat (S3) (LRR K, L, R)		
Hydrogen Sulfide (A4)		Loamy Gleyed Matrix				e (S7) (LRR K, M)		
Stratified Layers (A5)		Depleted Matrix (F3))		Polyvalue Bel	elow Surface (S8) (LRR K, L)		
Depleted Below Dark Surface (A11)		Redox Dark Surface ((F6)		Thin Dark Surf	rface (S9) (LRR K, L)		
Thick Dark Surface (A12)		Depleted Dark Surfac	.ce (F7)		Iron-Magane	Iron-Maganese Masses (F12) (LRR K, L, R)		
Sandy Mucky Mineral (S1)		Redox Depressions (F	(F8)		Piedmont Flor	oodplain Soils (F19) (MLRA 149B)		
Sandy Gleyed Matrix (S4)					Mesic Spo dic	c (TA6) (MLRA 144A, 145, 149B)		
Sandy Redox (S5)					Red Parent M	Material (F21)		
Stripped Matrix (S6)					—	v Dark Surface (TF12)		
Dark Surface (S7) (LRR R, MLRA 149B)					Other (expla	nin in remarks)		
Restrictive Layer (if observed):		1				THIT CHAINS,		
Restrictive Layer (if observed): Type:			!					
Depth (inches):			1	Hydric Soil Present? No				

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