WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP City	/County: Carlton	Sampling Date: 6/3/2014
Applicant/Owner: Enbridge	State: M	
Investigator(s): LEB/CPF	Section, T	ownship, Range:
Landform (hillslope, terrace, etc.): Depression		oncave, convex, none) <u>CC</u>
	g.: <u>-92.611099</u> Datum	
Soil Map Unit Name: 504C		NWI Classification: PFO/SSB
Are climatic/hydrologic conditions of the site typical for this Are vegetation, soil, or hydrology	time of the year?	(If no, explain in remarks)
Are vegetation, soil, or hydrology	naturally problematic?	
(If needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
Hydrophytic vegetation present? Y Hydric soil present? Y	Is the sampled area with	in a wetland? Y
Indicators of wetland hydrology present? Y	If yes, optional wetland site	
	n yes, optional wettand site	- ID
Remarks: (Explain alternative procedures here or in a sepa	irate report.)	
The wetland is an alder thicket within an aspen do		
HYDROLOGY		
		Secondary Indicators (minimum of two
Primary Indicators (minimum of one is required; check all the	11 37	required)
	tained Leaves (B9)	 Surface Soil Cracks (B6) Drainage Patterns (B10)
	Fauna (B13) posits (B15)	 Drainage Patterns (B10) Moss Trim Lines (B16)
	n Sulfide Odor (C1)	Dry-Season Water Table (C2)
	Rhizospheres on Living	Crayfish Burrows (C8)
Drift Deposits (B3)		Saturation Visible on Aerial Imagery
	e of Reduced Iron (C4)	(C9)
	ron Reduction in Tilled	Stunted or Stressed Plants (D1)
□ Inundation Visible on Aerial Soils (Coll Imagery (B7) □ Thin Mu	o) ck Surface (C7)	Geomorphic Position (D2) Shallow Aquitard (D3)
	xplain in Remarks)	Microtopographic Relief (D4)
Surface (B8)		✓ FAC-Neutral Test (D5)
Field Observations:		Indiante en ef
Surface water present? Yes	Depth (inches): 2	Indicators of
Water table present? Yes	Depth (inches):	hydrology
Saturation present? Yes (includes capillary fringe)	Depth (inches):	present? Y
Describe recorded data (stream gauge, monitoring well, ae	rial photos, previous inspectior	ns), if available:
Remarks:		
The wetland is inundated throughout at the time	of survey.	
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VEGETATION - Use scientific names of plants		Sampling Point:	CRR51006c1W			
Tree Stratum Plot Size (30 ft)	Absolute %	Dominant	Indicator	50/20 Thresholds 20% 50%		
1	Cover	Species	Status	Tree Stratum00Sapling/Shrub Stratum1743		
2				Herb Stratum 17 43		
3				Woody Vine Stratum 0 0		
4						
5				Dominance Test Worksheet		
6				Number of Dominant		
8				Species that are OBL, FACW, or FAC: 2 (A)		
9				Total Number of Dominant		
10		Total Cover		Species Across all Strata: (B)		
				Percent of Dominant Species that are OBL,		
Sapling/Shrub Plot Size(15 ft) Stratum	Absolute % Cover	Dominant Species	Indicator Status	FACW, or FAC:100.00% (A/	B)	
1 Alnus incana	75	Ŷ	FACW	Prevalence Index Worksheet		
2 Acer rub rum	5	N	FAC	Total % Cover of:		
3 Fraxinus nigra	5	Ν	FACW	OBL species $75 \times 1 = 75$		
4				FACW species 85 x 2 = 170 FAC species10x 3 =30		
6				FACU species $0 \times 4 = 0$		
7				UPL species $0 \times 5 = 0$		
8				Column totals 170 (A) 275 (B) Prevalence Index = B/A = 1.62		
10						
*	85 =	Total Cover		Iludronkutic Vocatation Indicatoro		
	Absolute %	Dominant	Indicator	Hydrophytic Vegetation Indicators: Rapid test for hydrophytic vegetation		
Herb Stratum Plot Size (5 ft)	Cover	Species	Status	X Dominance test is >50%		
1 Carex lacustris 2 Acer rubrum	<u>75</u> 5	<u> </u>	OBL FAC	X Prevalence index is ≤3.0* Morphological adaptations* (provide		
3 Ribes hirtellum	5	N	FAC	supporting data in Remarks or on a sepa	arate	
4				sheet)		
5				Problematic hydrophytic vegetation* (exp	nieln)	
7				*Indicators of hydric soil and wetland hydrology must b	1	
8				present, unless disturbed or problematic	-	
9 10				Definitions of Vegetation Strata:		
11				Tree - Woody plants 3 in. (7.6 cm) or more in diameter	r at	
12				breast height (DBH), regardless of height.		
13 14				Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.	b	
15	85 =	Total Cover		Herb - All herbaceous (non-woody) plants, regardless	of	
Woody Vine Stratum Plot Size(30 ft)	Absolute %	Dominant	Indicator	size, and woody plants less than 3.28 ft tall.	51	
Stratum Plot Size (30 ft)	Cover	Species	Status	Woody vines - All woody vines greater than 3.28 ft in		
1				height.		
2						
-				Hudronbutio		
5				Hydrophytic vegetation		
P	0 =	Total Cover		present? Y		
Remarks: (Include photo numbers here or on a separate	sheet'					
The wetland is dominated by alder with Cares		neath.				

SOIL								Samp	ling Point:	CRR51006c1W
Drofilo	Description:	(Doporibo to	tho de	epth needed to	dooumont	tho inc	licator or o	opfirm the	a abaanaa of	indicators)
		Matrix		eptin needed to	Redox F					Indicators.)
Depth (In.)		(moist)	%	Color (m		%	Type*	Loc**	Texture	Remarks
. ,		r í			0151)	70	туре	LUC		
0-18	Hue_10YR	2/2	100						MP	
	ł									
			+					+		
			+							
• •	C=Concentra ion: PL=Pore			RM=Reduced	Matrix, CS	=Cove	ered or Coa	ted Sand	Grains	
	Soil Indicat							Indicat	ors for Prob	lematic Hydric Soils:
	 ☐ Histosol (A1) ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4) ☐ Stratified Layers (A5) ☐ Depleted Below Dark Suface (A11) ☐ Thick Dark Surface (A12) ☐ Sandy Mucky Mineral (S1) ☐ Sandy Redox (S5) ☐ Stripped Matrix (S6) ☐ Dark Surface (S7) (LRR R, MLRA 				MLRA face (S A 149E Minera I Matrix ix (F3) urface Surfa sions	149B) 59) 3 al (F1) x (F2) (F6) ce (F7) (F8)	Very Shallow Dark Surface (TF12)			
Restrictive Layer (if observed): Type: Depth (inches):							Hydric soil present? <u>Y</u>			
Remark					C1					
Dark	k mucky pe	at observe	ed thro	oughout the p	orofile.					