WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: SPP	City/County: Clearwater	Sampling Date: 6/2/2014
Applicant/Owner: Enbridge	State: N	
Investigator(s): EAB/RAJ	Section,	Township, Range:
Landform (hillslope, terrace, etc.): Depression		concave, convex, none) CC
Slope (%): 0 - 2% Lat.: 47.401577	Long.: <u>-95.256548</u> Datu	
Soil Map Unit Name: 40B	41: 4:	NWI Classification:
Are climatic/hydrologic conditions of the site typical for Are vegetation , soil , or hydrolo		(If no, explain in remarks)
Are vegetation, soil, or hydrolo (If needed, explain any answers in remarks)	gy naturally problematic	? present?
(II needed, explain any answers in remarks)		
SUMMARY OF FINDINGS		
SOMIMART OF FINDINGS	1	
Hydrophytic vegetation present? Hydric soil present? Y	Is the sampled area with	nin a wetland? Y
Hydric soil present? Indicators of wetland hydrology present? Y	If yes, optional wetland si	te ID:
Remarks: (Explain alternative procedures here or in a		
This lake sedge sedge meadow lies in a roads	side ditch adjacent to pasture.	
HYDROLOGY		
IIIDROLOGI		Cocondany Indicators (minimum of two
Primary Indicators (minimum of one is required; check	all that apply)	Secondary Indicators (minimum of two required)
	ter-Stained Leaves (B9)	Surface Soil Cracks (B6)
l <u> </u>	uatic Fauna (B13)	☐ Drainage Patterns (B10)
	d Deposits (B15)	Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Hyd	lrogen Sulfide Odor (C1)	□ Dry-Season Water Table (C2)
	dized Rhizospheres on Living	Crayfish Burrows (C8)
1 — ' ' ' — —	ots (C3)	Saturation Visible on Aerial Imagery
$\Gamma \equiv \Gamma = $	sence of Reduced Iron (C4)	(C9)
	cent Iron Reduction in Tilled	☐ Stunted or Stressed Plants (D1) ☐ Geomorphic Position (D2)
	ls (C6) n Muck Surface (C7)	✓ Geomorphic Position (D2)✓ Shallow Aquitard (D3)
	er (Explain in Remarks)	☐ Microtopographic Relief (D4)
Surface (B8)	cr (Explain in Nemarks)	✓ FAC-Neutral Test (D5)
Caacc (20)		_ 1710 1100000 1001(20)
Field Observations:		
Surface water present? Yes	Depth (inches): 10	Indicators of
Water table present? Yes	Depth (inches):	wetland
Saturation present? Yes	Depth (inches):	hydrology
(includes capillary fringe)		present? Y
Describe recorded data (stream gauge, monitoring we	II, aerial photos, previous inspection	ons), if available:
	•	
Remarks:		
Surface water present throughout the wetlar	nd. Saturation and high water	table are likely but could not be
verified due to concerns about digging in roa	•	

VEGETATION - Use scientific names of plants Sampling Point: CLC5077d1W 50/20 Thresholds Absolute % Dominant Indicator 20% 50% 30 ft Tree Stratum Plot Size (Status Tree Stratum Cover Species 0 0 Sapling/Shrub Stratum 3 8 Herb Stratum 2 7 18 0 Woody Vine Stratum 0 3 4 5 **Dominance Test Worksheet** 6 Number of Dominant 7 Species that are OBL, 8 FACW, or FAC: (A) 9 **Total Number of Dominant** 10 Species Across all Strata: (B) = Total Cover Percent of Dominant Species that are OBL, Sapling/Shrub Dominant Indicator 100.00% (A/B) Absolute % FACW, or FAC: Plot Size (15 ft) Stratum Cover Species Status Salix petiolaris **FACW Prevalence Index Worksheet** 15 2 Total % Cover of: **OBL** species 3 FACW species x 2 = 4 20 5 FAC species x 3 = FACU species 6 UPL species 0 _x 5 = 0 7 8 Column totals 50 70 (B) (A) Prevalence Index = B/A = 9 10 **Total Cover Hydrophytic Vegetation Indicators:** Absolute % Dominant Indicator Rapid test for hydrophytic vegetation Herb Stratum Plot Size (5 ft) Status Dominance test is >50% Cover Species Carex lacustris OBL X Prevalence index is ≤3.0* 30 Ν **FACW** Morphological adaptations* (provide 2 Phalaris arundinacea 5 supporting data in Remarks or on a separate 3 4 sheet) 5 6 Problematic hydrophytic vegetation* (explain) 7 *Indicators of hydric soil and wetland hydrology must be 8 present, unless disturbed or problematic 9 **Definitions of Vegetation Strata:** 10 11 Tree - Woody plants 3 in. (7.6 cm) or more in diameter at 12 breast height (DBH), regardless of height. 13 Sapling/shrub - Woody plants less than 3 in. DBH and 14 greater than 3.28 ft (1 m) tall. 15 Total Cover Herb - All herbaceous (non-woody) plants, regardless of Woody Vine size, and woody plants less than 3.28 ft tall. Stratum 30 ft Absolute % Dominant Indicator Plot Size () Cover Species Status Woody vines - All woody vines greater than 3.28 ft in height. 2 3 Hydrophytic 5 vegetation = Total Cover present? Remarks: (Include photo numbers here or on a separate sheet) The ditch is sparsely vegetated, with the sample point community consisting only of lake sedge, reed canary grass, and a small clump of meadow willows.

SOIL								Sampl	ing Point:	CLC5077d1W
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth	усриг					Feature				Remarks
(ln.)	Color	(moist)	%	Color (m	oist)	%	Type*	Loc**	Texture	
			1							
			+ +							
			1							
			1 1							
			\Box							
		ation, D=Dep e Lining, M=N		RM=Reduced	Matrix, CS	=Cove	red or Coat	ted Sand	Grains	
	Soil Indicat		riduix					Indicate	ors for Probl	ematic Hydric Soils:
☐ Histosol (A1) ☐ Polyvalue Below Surface ☐ 2 cm Muck (A10) (LRR K, L, MLRA 148 LRR K, L, MLRA 149 B) ☐ Black Histic (A3) ☐ Thin Dark Surface (S9) ☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L) ☐ Hydrogen Sulfide (A4) ☐ Coast Prairie Redox (A16) (LRR K, L, F, F, F, F) ☐ Stratified Layers (A5) ☐ Loamy Mucky Mineral (F1) ☐ Dark Surface (S7) (LRR K, L) ☐ Thick Dark Surface (A12) ☐ Loamy Mucky Mineral (F1) ☐ Thin Dark Surface (S9) (LRR K, L) ☐ Sandy Mucky Mineral (S1) ☐ Depleted Matrix (F3) ☐ Piedmont Floodplain Soils (F19) (MLRA 144A, 145, G) ☐ Sandy Redox (S5) ☐ Depleted Dark Surface (F7) ☐ Redox Dark Surface (F7) ☐ Red Parent Material (F21) ☐ Stripped Matrix (S6) ☐ Redox Depressions (F8) ☐ Very Shallow Dark Surface (TF12) ☐ Dark Surface (S7) (LRR R, MLRA) *Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.									dox (A16) (LRR K, L, R) t or Peat (S3) (LRR K, L, R) () (LRR K, L Surface (S8) (LRR K, L) e (S9) (LRR K, L) Masses (F12) (LRR K, L, R) dain Soils (F19) (MLRA 149B) A6) (MLRA 144A, 145, 149B) wrial (F21) rk Surface (TF12) Remarks)	
Restrictive Layer (if observed): Type: Depth (inches):								Hydric soil present? Y		
	could not			e to safety co d hydrology.	ncerns as	ssocia	ted with o	digging i	n roadside	ditches. Soils assumed