WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Carlton		Sampling Date: 2016-08-01	
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: u-48n15w31-aa1	
Investigator(s): DPT, MGH	Section, Township, Range: S31, T48N, R31W			
Landform (hillslope, terrace, etc.): Side Slope		Local Relief (concave, con		
Subregion (LRR or MLRA):	 Latitude: 40	•	itude: -92.29205992 Datum: NAD83	
Soil Map Unit Name: 303	_		NWI Classification: N/A	
Are climatic/hydrologic conditions on the site t	vpical for this time of year	? (if no. explain in Remarks		
			·	
Are Vegetation No , Soil No , or Hydrolog	y <u>NO</u> significantly distur	bed? Are "Normal Circums	tances" present? Yes	
Are Vegetation No_, Soil No_, or Hydrology	No naturally problemati	c? (If needed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map	showing sampling point lo	ocations, transects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Area		
Hydric Soil Present?	<u>No</u>	within a Wetland?	<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	If yes, optional Wetland S	ite ID:	
Remarks: (Explain alternative procedures here	e or in a separate report.)			
No digging, RR ROW, potential buried utilities				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require	d; check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leave	es (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 Oc	lor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospher	es on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced	d Iron (C4)	Stunted/Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction	on in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (27)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re	marks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? No	_ Depth (inches)	ı		
Water Table Present?	_ Depth (inches)	1	No.	
Saturation Present? No	_ Depth (inches)	' 	Wetland Hydrology Present? No	
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, p	revious inspections), if avai	llable:	
Remarks:				
No digging, could not verify water table.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species
1.				That Are OBL, FACW, or FAC: 1(A)
2.				Total Number of Dominant
3.	•			Species Across All Strata: 2 (B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 50 (A/B)
6.				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
7	0	- Total Cover		OBL species 0.00 x 1 0
Conding/Charle Charles (Dict Cinc. 15	<u> </u>	- Total Cover		
Sapling/Shrub Stratum (Plot Size: 15				·
1				
2				UPL species <u>30.00</u> x 4 <u>150</u>
3				Column Totals 40 (A) 170 (B)
4				Prevalence Index = B/A = 4.25
5				Hydrophytic Vegetation Indicators:
6			-	1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	0	= Total Cover		<u>no</u> 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations 1 (Provide
1. Bromus inermis	30.00	Yes	UPL	supporting data in Remarks or on a separate sheet)
2. Mentha arvensis	10.00	Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
6.		-		
				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7 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.
10				
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12				woody plants less than 5.26 it tall.
	40	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30				
1.				
2.			•	Hydrophytic
		-		Vegetation
3		-		Present?
4				1
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sheet.	.)			

Sampling Point: u-48n15w... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix **Redox Features** Loc² (inches) Color (moist) Color (moist) % Type¹ Texture Remarks ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: Hydric Soil Indicators: Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR K, L) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Dark Surface (S7) (LRR K, M) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Redox 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) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Gleyed Matrix (S4) 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): Hydric Soil Present? No Depth (inches): Remarks: No digging, soils assumed non-hydric based on veg/hydro.

Site Photograph 1 Sampling Point: u-48n15w31-aa1



Latitude: 46.5971026244076 Cowardin Classification: Longitude: 92.2921004054065 Circular 39: Direction: north Eggers & Reed: Remarks: upland			
Direction: north Eggers & Reed:			
Remarks:			
upland			

Site Photograph 2 Sampling Point: u-48n15w31-aa1



Latitude: 46.5971032111408	Cowardin Classification:
Longitude: -92.2921027523394	Circular 39:
Direction: south	Eggers & Reed:
Remarks:	

Remarks:
upland