WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	Cit	ty/County: Carlton		Sampl	ing Date: 2016-08-31	
Applicant/Owner: Enbridge			State: Minnesota	Sampli	ing Point: <u>w-47n21w2-aa1</u>	
Investigator(s): DPT, MGH		Section, Township	p, Range: S2, T47N, R21V	V		
Landform (hillslope, terrace, etc.): De	epression		Local Relief (concave, co	nvex, none): CC	Slope (%): 0-2%	
Subregion (LRR or MLRA):		 Latitude: 46	5.5917263459 Long	gitude: -92.95409381	. Datum: NAD83	
Soil Map Unit Name: 43B				NWI Cl	assification: N/A	
Are climatic/hydrologic conditions o	n the site typica	al for this time of year	? (if no, explain in Remarl	ks):	No	
Are Vegetation No , Soil No , o	r Hydrology <u>No</u>	significantly disturb	ped? Are "Normal Circum	nstances" present? Yes	-	
Are Vegetation No_, Soil No_, or H	lydrology No	naturally problemation	c? (If needed, explain an	y answers in Remarks)		
SUMMARY OF FINDINGS - Attach	site map show	ing sampling point lo	cations, transects, impor	rtant features, etc.		
Hydrophytic Vegetation Present?	,	Yes	Is the Sampled Area			
Hydric Soil Present?	,	Yes	within a Wetland?		Yes	
Wetland Hydrology Present?		<u>Yes</u>	If yes, optional Wetland	Site ID:	<u>w-47n21w2-aa</u>	
Remarks: (Explain alternative proce	dures here or ir	n a separate report.)	-			
No digging, transmission ROW, pot	ential buried uti	ilities. Precipitation ab	oove normal based on WE	ETS analysis.		
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one	is required; ch	eck all that apply)		Surface So	oil Cracks (B6)	
Surface Water (A1)	_	Water-Stained Leave	s (B9)	Drainage F	Patterns (B10)	
High Water Table (A2)				Moss Trim Lines (B16)		
Saturation (A3)				Dry-Season Water Table (C2)		
Water Marks (B1)			or (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)			es on Living Roots (C3)Saturation Visible on Aerial Im		Visible on Aerial Imagery (C9)	
Drift Deposits (B3)			I Iron (C4)Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)			n in Tilled Soils (C6)	<u>Yes</u> Geomorphic Position (D2)		
Iron Deposits (B5)	_	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery	Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks		narks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface	: (B8)			yes_FAC-Neutra	al Test (D5)	
Field Observations:						
Surface Water Present?	<u>No</u>	Depth (inches)				
Water Table Present?		Depth (inches)				
Saturation Present?	<u>No</u>	Depth (inches)		Wetland Hydrology P	resent? Yes	
(includes capillary fringe)						
Describe Recorded Data (stream gau Remarks: No digging, could not verify water to		well, aerial photos, pr	revious inspections), if av	railable:		

		Absolute	Dominant	Indicator	Dominance Test workshee	et:
Tree Stratum (Plot Size	e: 30)	% Cover	Species?	Status	Number of Dominant Spec	ies
1.					That Are OBL, FACW, or FA	.C: 2 (A)
2.	_				Total Number of Dominant	:
3					Species Across All Strata:	<u>2</u> (B)
4.					Percent of Dominant Speci	-
5.					That Are OBL, FACW, or FA	
6.					Prevalence Index workshe	
7					Total % Cover of:	Multiply by:
· ·		0			OBL species	20.00 x 1 20
Sapling/Shrub Stratum (Plot Size: 15	5)	-	rotal cover		FACW species	70.00 x 2 140
1					FACU species	0.00 x 3 0
				-	UPL species	0.00 x 4 0
2			-	· -	Column Totals	100 (A) 190 (B)
					i	$\frac{100}{\text{dex}} = B/A = 1.9$
4				-		
5			-	-	Hydrophytic Vegetation In	
6			-			Hydrophytic Vegetation
7					yes 2 - Dominance Tes	
		0	= Total Cover		<u>yes</u> 3 - Prevalence Ind	_
)	70.00	.,	54004		Adaptations ¹ (Provide narks or on a separate sheet)
1. Phalaris arundinacea		70.00	Yes	- FACW	-	
2. Scirpus cyperinus		20.00	Yes	OBL	Problematic Hydrophytic Veg	etation* (Explain)
Eutrochium purpureum 4.		10.00	No	FAC	1 Indicators of hydric soil and wetla disturbed or problematic.	and hydrology must be present, unless
		-			Definitions of Vegetation	Strata:
5 6.			. —		Deminitions of Vegetation	otrutu.
					Tree - Woody plants 3 in 1.7	6 cm) or more in diameter at breast
7		-			height (DBH), regardless of h	
8		-			Carlina/Charle Washington	to location 2 in DDU and acceptantion
9				_	or equal to 3.28 ft (1 m) tall.	ts less than 3 in. DBH and greater than
10				_		
11						
11			. —			woody) plants, regardless of size, and ft tall.
12.				-	woody plants less than 3.28	
		100	= Total Cover	-	woody plants less than 3.28	
		100	= Total Cover		woody plants less than 3.28	ft tall.
12		100	= Total Cover		woody plants less than 3.28	ft tall.
12 (Plot Size: 30		100	= Total Cover		woody plants less than 3.28 Woody vines - All woody vin Hydrophytic	ft tall.
12		100	= Total Cover		woody plants less than 3.28 Woody vines - All woody vin Hydrophytic Vegetation	ft tall.
12 (Plot Size: 30		100	= Total Cover		woody plants less than 3.28 Woody vines - All woody vin Hydrophytic	ft tall. es greater than 3.28 ft in height.
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Sampling Point: W-47n21w... **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) ✓ Other (explain in remarks) Dark Surface (S7) (LRR R, MLRA 149B) Restrictive Layer (if observed): Hydric Soil Present? Yes Depth (inches): Remarks: No digging, soils assumed hydric based on veg/hydro.

Site Photograph 1 Sampling Point: w-47n21w2-aa1



Latitude: 46.5917328838693	Cowardin Classification: PEM
Longitude: -92.9540869408222	Circular 39: 2
Direction: north	Eggers & Reed: Fresh (Wet) Meadow

Remarks:			

Site Photograph 2 Sampling Point: w-47n21w2-aa1



Latitude: 46.5917330095978	Cowardin Classification: PEM
Longitude: -92.9540871084602	Circular 39: 2
Direction: east	Eggers & Reed: Fresh (Wet) Meadow

Remarks: