WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	Ci	City/County: Clearwater		Samplin	g Date: 2016-07-21
Applicant/Owner: Enbridge			State: Minnesota	Samplin	g Point: u-144n36w24-ac1
Investigator(s): ZCW		Section, Townshi	p, Range: S 24, T 144N, R	36W	
Landform (hillslope, terrace, etc.): Should	er		Local Relief (concave, co		Slope (%): 0-2%
Subregion (LRR or MLRA):		 Latitude: 47	•	gitude: -95.18452906	Datum: NAD83
Soil Map Unit Name: 267B				- <u> </u>	sification: N/A
Are climatic/hydrologic conditions on the	site tynic	al for this time of year	? (if no explain in Remark		Yes
		·			
Are Vegetation No , Soil No , or Hyd	Irology No	significantly disturk	ped? Are "Normal Circum	nstances" present? Yes	
Are Vegetation No_, Soil No_, or Hydro	ology <u>No</u>	naturally problemation	c? (If needed, explain an	y answers in Remarks)	
SUMMARY OF FINDINGS - Attach site	map shov	ving sampling point lo	cations, transects, impor	rtant features, etc.	
Hydrophytic Vegetation Present?		No	Is the Sampled Area		
Hydric Soil Present?		No	within a Wetland?		No
Wetland Hydrology Present?		No	If yes, optional Wetland	Site ID:	
Remarks: (Explain alternative procedure	s here or i	n a separate report.)			
HYDROLOGY					
<u></u>				Socondary Indicat	ars (minimum of two required)
Wetland Hydrology Indicators:				Secondary indicat	ors (minimum of two required)
Primary Indicators (minimum of one is re	quired; ch	eck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)		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)	Water Marks (B1) Hydrogen Sulfide Odor (C1)		or (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Sediment Deposits (B2) Oxidized Rhizosphere				sible on Aerial Imagery (C9)
Drift Deposits (B3)	Drift Deposits (B3) Presence of Reduced		· ·		ssed Plants (D1)
Algal Mat or Crust (B4)	_	Recent Iron Reductio			Position (D2)
Iron Deposits (B5)	_	Thin Muck Surface (C	·		
Inundation Visible on Aerial Imagery (B7)	_	Other (Explain in Ren	· · · · · · · · · · · · · · · · · · ·		
Sparsely Vegetated Concave Surface (B8)		1		FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?	No	Depth (inches)			
Water Table Present?	No	Depth (inches)			
Saturation Present?	No	Depth (inches)		Wetland Hydrology Pro	esent? <u>No</u>
(includes capillary fringe)					
Describe Recorded Data (stream gauge, i	nonitoring	g well, aerial photos, p	revious inspections), if av	railable:	
Remarks:					
I					

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot Size: <u>30</u>	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 0 (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: 0 (A/B)	
6.			_	Prevalence Index worksheet:	
7		= Total Cover		<u> </u>	
6 11 (6) 1 61 1 (9) 161 15	<u> </u>	_ = 10tal Cover			
Sapling/Shrub Stratum (Plot Size: 15				FACW species 0.00 x 2 0	
1				FACU species 85.00 x 3 340	
2				UPL species	
3				Column Totals <u>85</u> (A) <u>340</u> (B)	
4				Prevalence Index = B/A = 4	
5				_ Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7			_	no 2 - Dominance Test is > 50%	
	0	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$	
Herb Stratum (Plot Size: 5		_		4 - Morphological Adaptations (Provide	
1. Phleum pratense	30.00	Yes	FACU	supporting data in Remarks or on a separate sheet)	
2. Trifolium repens	25.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Toxicodendron radicans	15.00	No	FACU	- Hosiemade Hydrophytic Vegetation (Explain)	
	10.00		FACU	1 Indicators of hydric soil and wetland hydrology must be present, unless	
4. Pteridium aquilinum		No No		disturbed or problematic.	
5. Solidago canadensis	5.00	No	FACU	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					
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than	
10				or equal to 3.28 ft (1 m) tall.	
11.				Herb - All herbaeceous (non-woody) plants, regardless of size, and	
	-		_	woody plants less than 3.28 ft tall.	
12	85				
	83	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
Woody Vine Stratum (Plot Size: 30)					
1				-	
2				Hydrophytic	
3				Vegetation Present? No	
4					
	0	=Total Cover			
Remarks: (include photo numbers here or on a separate shee	-t)				
Terraines. (include prioto numbers here of on a separate snee	,				

Sampling Point: u-144n36... **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: Sample point taken on road shoulder. No digging.

Site Photograph 1 Sampling Point: u-144n36w24-ac1



Latitude:	47.28261766494	Cowardin Classification:
Longitude:	-95.1845491771541	Circular 39:
Direction: East	<u> </u>	Eggers & Reed:
Remarks:		

Site Photograph 2 Sampling Point: u-144n36w24-ac1



Latitude:	47.2826178744876		Cowardin Classification	
Longitude:	-95.1845484227829		Circular 39:	
Direction: Wes	st	_	Eggers & Reed:	
Remarks:				