WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Hubbard		Sampling Date: 2016-07-22			
Applicant/Owner: Enbridge		State: Minnesota	Sampling Point: u-143n35w33-ab1			
Investigator(s): ZCW	Section, Townshi	ip, Range: S 33, T 143N, R 35W				
Landform (hillslope, terrace, etc.): Shoul		Local Relief (concave, convex,	none): VL Slope (%): 3-7%			
Subregion (LRR or MLRA):		,	2: -95.12769933 Datum: NAD83			
Soil Map Unit Name: 526C			NWI Classification: N/A			
Are climatic/hydrologic conditions on th	ne site typical for this time of year	? (if no explain in Remarks):	Yes			
· -						
Are Vegetation No , Soil No , or Hy	ydrology No significantly disturb	bed? Are "Normal Circumstance	es" present? Yes			
Are Vegetation No , Soil No , or Hydi	rology No naturally problemati	c? (If needed, explain any answ	wers in Remarks)			
·	- · ·	, , , , ,	,			
SUMMARY OF FINDINGS - Attach site	e map showing sampling point lo	ocations, transects, important f	eatures, 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 Site ID	D:			
Remarks: (Explain alternative procedur	es here or in a separate report.)					
Sample point shared with w-143n35w3	33-ac					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is r	required: 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 Od	lor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)			Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)			Stunted/Stressed Plants (D1)			
Algal Mat or Crust (B4)			Geomorphic Position (D2)			
Iron Deposits (B5)	<u> </u>		Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	7) Other (Explain in Rer	marks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B8	3)		FAC-Neutral Test (D5)			
Field Observations:						
Surface Water Present?	No Depth (inches))				
Water Table Present?	No Depth (inches))				
Saturation Present?	No Depth (inches)) Wet	land Hydrology Present? No			
(includes capillary fringe)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Remarks:						

		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)
		•			Prevalence Index worksheet:	
7.					Total % Cover of: Mul	tiply by:
		0	= Total Cover			1 0
Sapling/Shrub Stratum (F	Plot Size: 15		_			2 0
1.						3 160
		-				4 0
		-			Column Totals 60 (A)	220 (B)
			_	_	-	
'			_	_	Prevalence Index = B/A = <u>3.6666666</u>	
					Hydrophytic Vegetation Indicators:	
				_	1 - Rapid Test for Hydrophytic V	egetation
7			_	_	no 2 - Dominance Test is > 50%	
		0	_ = Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$	
Herb Stratum (Plot Size:)				4 - Morphological Adaptations 1 supporting data in Remarks or on a sepa	
1. Phleum pratense		20.00	Yes	<u>FACU</u>	┥ ∷	
2. Plantago major		20.00	Yes	FAC	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Poa pratensis		10.00	<u>No</u>	FACU	Indicators of hydric soil and wetland hydrology mus	st be present, unless
4. Taraxacum officinale		10.00	<u>No</u>	FACU	disturbed or problematic.	
5					Definitions of Vegetation Strata:	
6					_	
7					Tree - Woody plants 3 in. (.76 cm) or more in	n diameter at breast
8					height (DBH), regardless of height.	
9					Sapling/Shrub - Woody plants less than 3 in. DBH and greater than	
10					or equal to 3.28 ft (1 m) tall.	
· · · · · · · · · · · · · · · · · · ·					Herb - All herbaeceous (non-woody) plants,	regardless of size and
i	_	-	· ·		woody plants less than 3.28 ft tall.	reguraless of size, and
12					┪	
		60	= Total Cover		Woody vines - All woody vines greater than	3.28 ft in height.
Woody Vine Stratum (Plo	ot Size: 30)					
1					-	
2.		_			Hydrophytic Vegetation	
3					Present? No	_
4		_	_	_	_	
		0	=Total Cover			
Remarks: (include photo	numbers here or on a separate shee	-t.)			-	
, , , , , , , , , , , , , , , , , , ,						

Sampling Point: u-143n35... **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 along existing forest road. No digging.

Site Photograph 1 Sampling Point: u-143n35w33-ab1



Latitude: 47.1581665613196	Cowardin Classification:			
Longitude: -95.1277259086213	Circular 39:			
Direction: North	Eggers & Reed:			
Remarks:				

Site Photograph 2 Sampling Point: u-143n35w33-ab1



Latitude: 47.1581686987049	Cowardin Classification:			
Longitude: -95.1277272497258	Circular 39:			
Direction: South	Eggers & Reed:			
Remarks:				