WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	City/County: Cas	City/County: Cass		Sampling Date: 2016-08-04	
Applicant/Owner: Enbridge		State: Minnesota	Sampli	ng Point: <u>u-139n25w5-aa1</u>	
Investigator(s): DPT, MGH	Section, To	ownship, Range: S5, T139N	, R25W		
Landform (hillslope, terrace, etc.): Rise	2	Local Relief (concav	re, convex, none): VL	Slope (%): 0-2%	
Subregion (LRR or MLRA):	 Latitı	ude: 46.8759583170	Longitude: -93.86402509	Datum: NAD83	
Soil Map Unit Name: 540			NWI Cla	ssification: N/A	
Are climatic/hydrologic conditions on	the site typical for this time	of year? (if no, explain in Re		Yes	
Are Vegetation No , Soil No , or I			,		
Are Vegetation No , Soil No , or Hy				-	
SUMMARY OF FINDINGS - Attach s	ite map showing sampling p	ooint locations, transects, in	mportant features, etc.		
Hydrophytic Vegetation Present?	<u>No</u>	Is the Sampled Area	a		
Hydric Soil Present?	No	within a Wetland?		<u>No</u>	
Wetland Hydrology Present?	<u>No</u>	If yes, optional Wet	land Site ID:		
Remarks: (Explain alternative procedu	ures here or in a separate rep	port.)			
No digging, existing road, potential b	uried utilities.				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is	s required; check all that app	oly)	Surface So	il Cracks (B6)	
Surface Water (A1)		ed Leaves (B9)		Drainage Patterns (B10)	
High Water Table (A2)	· · · · · · · · · · · · · · · · · · ·		Moss Trim	Lines (B16)	
Saturation (A3)	Marl Deposit	ts (B15)	Dry-Seasor	Water Table (C2)	
Water Marks (B1)	Hydrogen Su	ılfide Odor (C1)	Crayfish Bu	rrows (C8)	
Sediment Deposits (B2)	Oxidized Rhiz	zospheres on Living Roots (C3)	Saturation	Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduce		Stunted/Str	ressed Plants (D1)	
Algal Mat or Crust (B4)	al Mat or Crust (B4) Recent Iron Reducti		Geomorphi	c Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (Shallow Aq	uitard (D3)	
Inundation Visible on Aerial Imagery (I	B7) Other (Explain	in in Remarks)	Microtopog	raphic Relief (D4)	
Sparsely Vegetated Concave Surface (I	B8)		FAC-Neutra	l Test (D5)	
Field Observations:					
Surface Water Present?	No Depth (i	inches)			
Water Table Present?	Depth (i	inches)			
Saturation Present?	No Depth (i	inches)	Wetland Hydrology P	resent? <u>No</u>	
(includes capillary fringe)					
Describe Recorded Data (stream gaug	e, monitoring well, aerial pho	otos, previous inspections),	, if available:		
Remarks:					
No digging, could not verify water tab	ile.				

Tree Stratum 1. Betula papyrifera (Plot Size: 30

3			_	Species Across All Strata: 6 (B)
4	_		_	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 16.6666666666 (A/B)
6				Prevalence Index worksheet:
7	_			Total % Cover of: Multiply by:
	15	= Total Cover		OBL species 0.00 x 1 0
				FACW species 5.00 x 2 10
1. Salix bebbiana	5.00	Yes	FACW	FACU species 85.00 x 3 340
2. Corylus cornuta	5.00	Yes	UPL	UPL species 15.00 x 4 75
3.			_	Column Totals 115 (A) 455 (B)
4.	_			Prevalence Index = B/A = 3.9565217
	_		_	Hydrophytic Vegetation Indicators:
	_			1 - Rapid Test for Hydrophytic Vegetation
7			_	
	10	= Total Cover		
Herb Stratum (Plot Size: 5				4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Pteridium aquilinum		Yes Yes	<u>FACU</u>	
2. Tanacetum vulgare	20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Phleum pratense		Yes Yes	FACU	Indicators of hydric soil and wetland hydrology must be present, unless
4. Plantago major	10.00	No	FAC	disturbed or problematic.
5. Fragaria vesca	10.00	No No	UPL	Definitions of Vegetation Strata:
6. Poa pratensis	10.00	<u>No</u>	FACU	
7				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast height (DBH), regardless of height.
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.
11.				Herb - All herbaeceous (non-woody) plants, regardless of size, and
12.	_			woody plants less than 3.28 ft tall.
12:	90	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30		= Total cover		violativines 744 woody vines greater dain 3.20 te in neight.
Woody Vine Stratum (Plot Size: 30)				
1			-	Under the Mar
2	_			Hydrophytic Vegetation
3				Present? No No
4				
	0	=Total Cover		
Remarks: (include photo numbers here or on a separate sh	eet.)			
	•			

Absolute

% Cover

15.00

Dominant

Species?

FACU

Yes

Sampling Point: u-139n25... **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 and hydro.

Site Photograph 1 Sampling Point: u-139n25w5-aa1



Latitude: 46.8759690458392	Cowardin Classification:			
Longitude: -93.8640052267293	Circular 39:			
Direction: east	Eggers & Reed:			
Remarks:				
Upland				

Site Photograph 2 Sampling Point: u-139n25w5-aa1



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Latitude: 46.8759736558859	Cowardin Classification:
Longitude: -93.8639943302552	Circular 39:
Direction: west	Eggers & Reed:
Remarks: Upland	
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