## WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: SPP	Ci	ty/County: Cass		Sampling Date: 2016-07-27		
Applicant/Owner: Enbridge			State: Minnesota	Samplin	g Point: u-139n25w18-aa1	
Investigator(s): DPT/MGH		Section, Townshi	p, Range: S18, T139N, R2	25W		
Landform (hillslope, terrace, etc.): Side S	Slope		Local Relief (concave, co		Slope (%): 3-7%	
Subregion (LRR or MLRA):		 Latitude: 46	•	gitude: -93.88945813	Datum: NAD83	
Soil Map Unit Name: 218			2011		sification: N/A	
Are climatic/hydrologic conditions on th	a sita tunica	al for this time of year	2 (if no evolain in Remark		Yes	
· ·		·	•	•		
Are Vegetation No , Soil No , or Hy	drology No	significantly disturb	ped? Are "Normal Circum	nstances" present? Yes		
Are Vegetation No , Soil No , or Hyd	rology No	naturally problemation	c? (If needed, explain an	y answers in Remarks)		
<u> </u>	u, <u></u>	- / ·	, , ,	,		
SUMMARY OF FINDINGS - Attach sit	e map show	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?		<u>No</u>	
Wetland Hydrology Present?		<u>No</u>	If yes, optional Wetland	Site ID:		
Remarks: (Explain alternative procedur	es here or i	n a separate report.)				
No digging, existing road, potential bur	ried utilities.					
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicat	ors (minimum of two required)	
Primary Indicators (minimum of one is r	roquirod: ch	ock all that apply)		-		
	equired, cir		oc (BO)	Surface Soil		
Surface Water (A1) High Water Table (A2)	_	Water-Stained Leave	(B9) Drainage Patterns (B10)  Moss Trim Lines (B16)			
<del></del>				Dry-Season Water Table (C2)		
<del></del>	Saturation (A3) Marl Deposits (B15)  Water Marks (B1) Hydrogen Sulfide Odor			Crayfish Burrows (C8)		
			es on Living Roots (C3)	<del></del>	isible on Aerial Imagery (C9)	
Drift Deposits (B3)		Presence of Reduced		Stunted/Stressed Plants (D1)		
Algal Mat or Crust (B4)	_	Recent Iron Reductio		<del></del>	Position (D2)	
Iron Deposits (B5)	_	Thin Muck Surface (C		Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7		Other (Explain in Ren	•	<del></del>	aphic Relief (D4)	
Sparsely Vegetated Concave Surface (B8			•	FAC-Neutral		
Field Observations:		I I				
Surface Water Present?	No	Depth (inches)				
Water Table Present?		Depth (inches)				
Saturation Present?	No	Depth (inches)		Wetland Hydrology Pro	esent? No	
(includes capillary fringe)		,		, ,,		
Describe Recorded Data (stream gauge,	monitoring	g well, aerial photos, p	revious inspections), if av	vailable:	, I	
Remarks:						
No digging, existing road, potential bur	ied utilities	Could not verify wate	er table			
The digging, existing road, potential sur	ica atmices.	could not verny water	. table.			

Sapling/Shrub Stratum (Plot Size: 15

Tree Stratum

2. Betula papyrifera

Herb Stratum (Plot Size: 5

(Plot Size: 30

Absolute

% Cover

20.00

10.00

Dominant

Species?

\_\_\_\_\_ = Total Cover

Yes

Yes

= Total Cover

Indicator

Status

UPL

FACU

1. Pteridium aquilinum	40.00	Yes	FACU	supporting data in Remarks or on a separate sheet)
2. Solidago canadensis	15.00	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3. Plantago major	10.00	No	FAC	Indicators of hydric soil and wetland hydrology must be present, unless
4. Phleum pratense	5.00	No	FACU	disturbed or problematic.
5				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.			<del>-</del>	Carling/Charle Woods plants less than 2 in DDU and acceptanthan
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 herbacceous (non-woody) plants, regardless of size, and
12.				woody plants less than 3.28 ft tall.
	70	= 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	et.)			
US Army Corps of Engineers				Northcentral and Northeast Region – Version 2.0
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Sampling Point: u-139n25... **SOIL** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Matrix **Redox Features** Depth Loc<sup>2</sup> (inches) Color (moist) Color (moist) % Type<sup>1</sup> Texture Remarks <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil<sup>3</sup>: 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, existing road, potential buried utilities. Soils assumed non-hydric based on vegetation and hydrology.

Site Photograph 1 Sampling Point: u-139n25w18-aa1



Latitude: 46.8476317171444	Cowardin Classification:
Longitude: -93.8894741424302	Circular 39:
Direction: South	Eggers & Reed:
Remarks:	
upland	

Site Photograph 2 Sampling Point: u-139n25w18-aa1



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Latitude:	46.8476277776499	Cowardin Classification:				
Longitude:	-93.8894759864489	Circular 39:				
Direction: Wes	st	Eggers & Reed:				
Remarks:						
upland						