WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

Project/Site: L3R	City/County: Cl	earwater	_ Sampl	Sampling Date: 2016-06-30		
Applicant/Owner: Enbridge		State: Minnesota		Sampling Point: u-149n37w29-a5		
Investigator(s): DPT, ZCW	Section,	Township, Range: S29, T14	9N, R37W			
Landform (hillslope, terrace, etc.): Ris	se	Local Relief (conca	ave, convex, none): VL	Slope (%): 0-2%		
Subregion (LRR or MLRA):	Lat	itude: 47.6924614236	Longitude: -95.41162901	Datum: NAD83		
Soil Map Unit Name: 582			NWI Cl	assification: N/A		
Are climatic/hydrologic conditions or	the site typical for this time	e of vear? (if no. explain in F		Yes		
Are Vegetation No , Soil No , or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes						
Are Vegetation No , Soil No , or Hydrology No naturally problematic? (If needed, explain any answers in Remarks)						
SUMMARY OF FINDINGS - Attach	site map showing sampling	point locations, transects,	important features, etc.			
Hydrophytic Vegetation Present?	No	Is the Sampled Ar	rea			
Hydric Soil Present?	No	within a Wetland		No		
Wetland Hydrology Present?	No	If yes, optional W	etland Site ID:			
Remarks: (Explain alternative proced	dures here or in a separate r	eport.)				
Vegetation recently mowed, but cou	uld still ID. No digging, burie	d utilities.				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)		
		1.3				
Primary Indicators (minimum of one				oil Cracks (B6)		
I —	Surface Water (A1) Water-Stained Leav		<u>—</u>			
High Water Table (A2) Aquatic Fauna (B13) Catuation (A2)			Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15) Mater Marks (B1) Hydrogen Sulfide Oc				n Water Table (C2)		
Water Marks (B1) Hydrogen Sulfide O		hizospheres on Living Roots (C3)	Crayfish Bu	Visible on Aerial Imagery (C9)		
		of Reduced Iron (C4)		ressed Plants (D1)		
		n Reduction in Tilled Soils (C6)		ic Position (D2)		
Algal Mat or Crust (B4) Recent Iron Reduc Iron Deposits (B5) Thin Muck Surface			Shallow Ac			
 · · · ·		lain in Remarks)		graphic Relief (D4)		
Sparsely Vegetated Concave Surface			FAC-Neutra			
Field Observations:						
Surface Water Present?	No Depth	(inches)				
Water Table Present?		(inches)				
Saturation Present?		(inches)	Wetland Hydrology P	resent? No		
(includes capillary fringe)		, ,	, , ,			
Describe Recorded Data (stream gau	ge, monitoring well, aerial p	hotos, previous inspections	s), if available:			
, ,	<i>5</i> , <i>5</i> , 1		,,			
Romanica						
Remarks:						
No digging, could not confirm/deny water table.						

Tree Stratum (Plot Size: 30	% 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 of: Multiply by:
	0	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15)	-			FACW species 0.00 x 2 0
1				FACU species 80.00 x 3 320
I	-		_	UPL species 10.00 x 4 50
2			_	Column Totals 90 (A) 370 (B)
3		_	_	Prevalence Index = B/A = 4.1111111
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 supporting data in Remarks or on a separate sheet)
1. Poa pratensis	50.00	Yes	FACU	
2. Taraxacum officinale	20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Lotus corniculatus	10.00	<u>No</u>	FACU	Indicators of hydric soil and wetland hydrology must be present, unless
4. Centaurea stoebe	10.00	No No		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				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.
	90	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30		= Total cover		woody vines greater than 5.25 fem neight.
1	_	_	_	Hudrophytic
2				Hydrophytic Vegetation
3			_	Present? No
4				_
	0	=Total Cover	_	
Remarks: (include photo numbers here or on a separate she	et.)			

Absolute

% Cover

Dominant

Indicator

Sampling Point: u-149n37... **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, buried utilities, soils assumed non-hydric based on veg/hydro.

Site Photograph 1 Sampling Point: u-149n37w29-a5



Latitude:	47.6924590766874	Cowardin Classification:			
Longitude:	-95.411627339288	Circular 39:			
Direction: east		Eggers & Reed:			
Remarks:					
upland					

Site Photograph 2 Sampling Point: u-149n37w29-a5



	A STATE OF THE PARTY OF THE PAR
Latitude: 47.6924483478513	Cowardin Classification:
Longitude: -95.411622058689	Circular 39:
Direction: west	Eggers & Reed:
Remarks:	
upland	