WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>08/01/14</u>		
Applicant:		Enbridge			_			MLRA 56		County: <u>Marshall</u>		
Investigators		NTT/KRG			Subregion	•	State: MN					
Soil Unit:	I18A			_			I Classification:					
Landform:	Talf				cal Relief:					Sample Point: w-155n46w1-c1		
Slope (%):	0 - 2%		Latitude: 48.27		Longitude:			Datum:				
	, ,	onditions on the site			ar? (If no, expl				□ No	Section:		
Are Vegetation		l □, or Hydrology	•			Are	e normal circum	•	esent?	Township:		
Are Vegetation		l □, or Hydrology	□aturally pro	blematic?			Yes	□ No		Range: Dir:		
SUMMARY C												
Hydrophytic \	Vegetation P	resent?	Yes		_				Is Present?			
Wetland Hyd	Irology Prese	ent?	Yes					Is This Sar	mpling Poir	nt Within A Wetland? Yes		
Remarks:	The wetland	d is a wet meadow	located within	an agricultu	ıral field an	d cover	ed mainly with ${\mathfrak k}$	oare dirt and	d scattered	Rumex stenophyllus. The site is within an		
	existing pip	eline corridor.										
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all	that apply: Mi	nimum of or	e primary o	or two s	econdary requir	ed).				
Primary:	•	icators (Crieck all	ιτιαι αρριγ, ινιι	minum or or	e primary c) two s	econdary requir	eu).	Secondary:	r		
	<u>·</u>	Water		П	B11 - Salt C	crust				<u>··</u> B6 - Surface Soil Cracks		
	A2 - High Wa				B13 - Aquat		[_	B8 - Sparsely Vegetated Concave Surface		
✓	A3 - Saturation				C1 - Hydrog	en Sulfic	de Odor			B10 - Drainage Patterns		
	B1 - Water M				C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish Burrows		
	B3 - Drift Dep				C4 - Preser C7 - Thin M					C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma B5 - Iron Dep				Other (Explanation		ace			D2 - Geomorphic Position D5 - FAC-Neutral Test		
		on Visible on Aerial Im	nagery		Other (Expir	ali 1 <i>)</i>				D7 - Frost-Heaved Hummocks (LRR F)		
		tained Leaves	.a.go.y						_			
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Depth		(in.)							
Water Table		Yes	Depth		- (in.)			Wetland F	lydrology	Present? Y		
Saturation Pr		Yes ☑	Depth		- (in.)							
			<u> </u>		<u> </u>							
	•	stream gauge, moni			<u>.</u>	ections),	if available:					
Remarks:	Soils are sa	aturated at the surf	ace in parts of	the wetland								
SOILS												
		ibe to the depth ne										
(Type: C=Concer	ntration, D=Depi	etion, RM=Reduced Ma	airix, CS=Covered	J/Coated Sand	Grains; Locati	on: PL=P	ore Lining, M=Matri	ix)				
		Matrix				N/lottl	00					
Donath (Inc.)			0/	O a la ri /	N 4 = : = 4\	Mottl		Lasatian		Damarka		
Depth (In.)		Color (Moist)	%	Color (Moist)	%	Туре	Location	Texture	Remarks		
NRCS Hydr	ic Soil Field	Indicators (ch	neck here if inc	dicators are i	not present) <u>:</u>						
IIII	10 0011 1 1014	(on	iook rioro ii iric		iot procent	/-			Indicators f	for Problematic Soils ¹		
	A1- Histosol			S5 - Sandy R	edox					Muck (LRR I, J)		
	A2 - Histic Ep	pipedon		S6 - Stripped				□ A16 - Coast Prairie Redox (LRR F, G, H)				
								Surface (LRR G)				
	A4 - Hydrogen Sulfide								· · · · · · · · · · · · · · · · · · ·			
									iced Vertic			
	A12 - Thick Dark Surface ☐ F8 - Redox Depressions ☐ Other (Explain in Remarks) S1 - Sandy Mucky Mineral ☐ F16 - High Plains Depressions (MLRA 72, 73 of LRR H)									laın ın Remarks)		
	•	•		F16 - High P	ains Depress	sions (IVIL	KA 12, 13 OF LKR	к п)				
		Mucky Peat or Peat (L							1Indicators of 1	hydrophytic vegetation and wetland hydrology must be present,		
	- S3 - 5 cm Mi	ICKA best or best or br	R F)									
		icky Peat or Peat (LRI leved Matrix	KF)							ped or problematic.		
	S3 - 5 cm Mu S4 - Sandy G		KF)									
	S4 - Sandy G	leyed Matrix	K F)	D					unless disturbe			
Restrictive Layer	S4 - Sandy G	leyed Matrix	K F)	Depth			Hydric So	il Present?	unless disturbe			

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w1-c1			
VEGETATIO	` ` `	e non-native	species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:(A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.								
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.								
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.					OBL spp. $\frac{0}{0}$ $\times 1 = \frac{0}{0}$			
10.	Total Cover =	0			FACW spp. 10 × 2 - 20			
	Total Cover =	0	_		FAC on 5			
Combiner/Observib	Chrotium (Diet sies) 45 ft modius)				FACW spp. 10			
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0			
1.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
2.								
3.					Total 15 (A) 35 (B)			
4.					_			
5.					Prevalence Index = B/A = 2.333			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
			_		Morphological Adaptations (Explain) *			
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Rumex stenophyllus	10	Υ	FACW	rroblom riyarophiyar vogotation (Explain)			
2.	Echinochloa crus-galli	5	· Y	FAC	* Indicators of hydric soil and wetland hydrology must be			
3.	Echinochioa crus-gaiii	<u> </u>	<u> </u>	170	present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
					Definitions of Vegetation Strata.			
5.					Tuo o			
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.			
7.					Height (DBH), regardless of height.			
8.								
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.								
14.								
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover =	15						
	10141 00101		_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1	ratum (Flot 3126: 56 ft. fadias)							
2.								
3.					Hydrophytic Vagatation Bracont?			
5.					Hydrophytic Vegetation Present?Y			
4.	Total Cavan							
	Total Cover =	0	41 1					
Remarks:	The wetland vegetation is very sparse; bare of	dirt covers	the major	ity of the v	wetland.			
Additional Remarks:								
I								