WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge								County:	Pennington	
Investigators	SI	BJC/RAJ			Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	155A						I Classification:					
Landform:	Talf				ocal Relief:					Sample Point:	u-153n44w2-c1	
Slope (%):	0 - 2%		Latitude: 48.0		Longitude:			Datum:				
Are climatic/		nditions on the site						Yes	□ No	Section:		
Are Vegetation	•	☑, or Hydrology	•	•		Are	e normal circum	nstances pre	esent?	Township:		
Are Vegetation		, ,	□aturally p	oblematic?			✓ Yes	□ No		Range:	Dir:	
SUMMARY (
	Vegetation P		<u>No</u>						s Present?			
Wetland Hyd	Irology Prese		No							t Within A We		
Remarks:	The upland	sample point is loca	ated in a so	ybean field tl	nat has yet	to be ha	rvested. The so	ils are distu	rbed due to	tillage. The v	egetation is disturbed due t	(O
	herbicide ap	oplication and tillage	Э.									
HYDROLOG	Υ											
Wetland Hy	drology Indi	icators (Check all t	hat apply: I	/linimum of o	ne primary	or two s	econdary requir	.eq).				
Primary	• •	ioatoro (orrook air t	inat appry, i		no primary	01 (00 0	coordary roquii	ca):	Secondary:			
<u> </u>	<u>·</u>	Nater			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
					B13 - Aqua		l				Vegetated Concave Surface	
	A3 - Saturatio	n			C1 - Hydro					B10 - Drainage		
	B1 - Water Ma										Rhizospheres on Living Roots (til	lled)
	B2 - Sedimen	•					spheres on Living	Roots (not tille		C8 - Crayfish E		
	□ B3 - Drift Deposits □ C4 - Presence of Reduced Iron										Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep						ace			D2 - Geomorpl D5 - FAC-Neut		
	•	ก Visible on Aerial Ima	nderv		Other (Exp	nairi)					ived Hummocks (LRR F)	
	B9 - Water-St		igery						_	<i>D1</i> 1103(1100	ved Hammooks (ERRY)	
_	20 114.0. 0.	200,00										
Field Obser	vations:											
Surface Wat		Yes	Dep	h.	(in)							
Water Table		Yes □ Yes □	•		_ (in.)			Wetland H	lydrology F	Present?	N	
			Dep		_ (in.)							
Saturation Present? Yes Depth: (in.)												
					_							
Describe Rec	orded Data (s	stream gauge, monito	oring well, a	erial photos, p		pections),	if available:					
Describe Rec Remarks:	•	stream gauge, monitors of wetland hydrol				ections),	if available:					
	•					pections),	if available:					
	•					pections),	if available:					
Remarks: SOILS Profile Descri	No indicator	rs of wetland hydrologe be to the depth nee	ogy were o	oserved.	revious insp	onfirm th	e absence of in					
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Remarks: SOILS Profile Descri	No indicator	be to the depth nee	ogy were o	oserved.	revious insp	onfirm th	e absence of in ore Lining, M=Matr					
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Remarks: SOILS Profile Descri	No indicator	be to the depth nee	ogy were o	ument the inced/Coated Sand	revious insp	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist)	eded to doc	ument the inced/Coated Sand	dicator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture FS		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No indicator iption (Descri	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 3/2	eded to doc trix, CS=Cove	ument the inced/Coated Sand	dicator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No indicator iption (Descrintration, D=Depleted Property of the Control of the Co	be to the depth nee etion, RM=Reduced Matrix Color (Moist) 3/2 5/3 Indicators (che	eded to doc trix, CS=Cove	Color	dicator or configurations; Local (Moist) (Moist) not present	onfirm th tion: PL=P Mottle	e absence of infore Lining, M=Matr	Location	FS FS Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils ¹	
Remarks: SOILS Profile Descrication (Type: C=Concert Depth (In.) 0-10 10-18 NRCS Hydr	No indicator iption (Descriptration, D=Depleted Property of the Contract of th	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 3/2 5/3 Indicators (che	eded to doc trix, CS=Cove	Color	dicator or configurations; Local (Moist) (Moist) not present Redox and Matrix	Mottle %	e absence of infore Lining, M=Matr	Location	FS FS Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (: Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth nee etion, RM=Reduced Matrix Color (Moist) 3/2 5/3 Indicators (che	eded to doc trix, CS=Cove	Color	mot presented Matrix Mucky Miner	mottle which was also as a second confirm the tion: PL=P Mottle which was a second confirmation and the tion: PL=P Mottle which was a second confirmation and the tion: PL=P	e absence of infore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)	
Remarks: SOILS Profile Descrice (Type: C=Concert Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth nee etion, RM=Reduced Mat Matrix Color (Moist) 3/2 5/3 Indicators (che	eded to doc trix, CS=Cove	Color	mot presented Matrix Mucky Miner Gleyed Matrix	mottle which was also as a second confirm the tion: PL=P Mottle which was a second confirmation and the tion: PL=P Mottle which was a second confirmation and the tion: PL=P	e absence of infore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox (urface (LRR G) l'ains Depressio	: Soils ¹	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-153n44w2-c1				
,					· •				
VEGETATIO	、 .	e non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)				Deminance Test Merkehest				
1.	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					(A)				
4.					Total Number of Dominant Species Across All Strata: 2 (B)				
5.					Total Number of Berninant Operios Norose All Citata.				
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)				
7.					(* -				
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					$\int_{0}^{\infty} OBl spp $				
	Total Cover =	0			FACW spp. $0 x 2 = 0$				
					FACW spp. 0				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 25 $x 4 = 100$				
1.					UPL spp. $\frac{75}{}$ $x = \frac{375}{}$				
2.									
3.					Total 100 (A) 475 (B)				
4.					Dravalance Index D/A 4.750				
5. 6.					Prevalence Index = B/A = 4.750				
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance Test is > 50%				
	Total Cover =	0			Prevalence Index is ≤ 3.0 *				
			_		Morphological Adaptations (Explain) *				
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Glycine max	75	Υ	NI					
2.	Setaria pumila	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.					present, unless disturbed or problematic.				
4.					Definitions of Vegetation Strata:				
5.									
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.					height (DBH), regardless of height.				
8.					On the Woods plants loss than 2 in DRH, regardless of beight				
9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.					4				
11. 12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.				
13.				_	- Tier b - 7 iii Norbacccas (North Westly) plante, regardless of object.				
14.				_	1				
15.					Woody Vines - All woody vines, regardless of height.				
10.	Total Cover =	100							
		100							
Woody Vine Sti	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover =								
Remarks:	The upland is dominated by healthy soybean	is and yello	w foxtail.						
Additional R	Remarks:								