WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/25/14	
Applicant:		Enbridge								County:	Marshall	
Investigators		NTT/KRG/EAB			_Subregior	`	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I133A						Classification:					
Landform:	Side slope				cal Relief:		101			Sample Point:	u-158n48w9-c1	
Slope (%):	0 - 2%	1141 41 14	Latitude: 48.5		Longitude:			<u>Datum:</u>		1 .		
		nditions on the site			ar'? (If no, exp			✓ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•			Are	normal circum	-	esent?	Township:		
Are Vegetation		, ,	□aturally pr	oblematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									D 10	N		
Hydrophytic \	_		No		_			Hydric Soil			-thIO No	
Wetland Hyd			No No	dan de mal fial d	that is also	. 4	Ohasia a as as a			t Within A We		
Remarks:	rne upiano	point is located in	a rarmed ag	riculturai field	that is plar	ited with	i Glycine max a	ına interspe	rsea with E	iymus repens	•	
HVDDOL OO	V											
HYDROLOG'												
_	• • •	cators (Check all	that apply; N	linimum of or	ne primary	or two se	econdary requi	red):				
<u>Primary:</u>		A		_	D44 0 11 4				Secondary:		"	
	A1 - Surface \ A2 - High Wat				B11 - Salt (B13 - Aqua					B6 - Surface S	oil Cracks /egetated Concave Surfac	0
	A3 - Saturatio				C1 - Hydro		e Odor			B10 - Drainage		5
	B1 - Water Ma				C2 - Dry Se				_		Rhizospheres on Living Roo	ots (tilled)
	B2 - Sediment	•			C3 - Oxidiz	ed Rhizos	pheres on Living	Roots (not tille	• 🗆	C8 - Crayfish E	Burrows	, ,
	B3 - Drift Dep				C4 - Preser						Visible on Aerial Imagery	
	B4 - Algal Mat B5 - Iron Depo				C7 - Thin M		ace			D2 - Geomorpl D5 - FAC-Neut		
		วรแร n Visible on Aerial Im	nagery		Other (Expl	iairi)					ved Hummocks (LRR F)	
	B9 - Water-St		.ago.y						_	27 110011100	red Hammoone (Entry)	
Field Observ	vations:											
Surface Wate	er Present?	Yes □	Dept	h:	(in.)			Motlered		D	N.I.	
Water Table	Present?	Yes □	Dept	h:	- (in.)			Wetland H	iyarology I	Present?	N	
Saturation Pr	resent?	Yes	Dept	h·	(in)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s		<u> </u>		_ (in.) evious insp	ections)	if available:					
	· · ·	tream gauge, moni	toring well, a			ections),	if available:					
Describe Reco	· · ·		toring well, a			ections),	if available:					
Remarks:	· · ·	tream gauge, moni	toring well, a			ections),	if available:					
Remarks: SOILS Profile Descri	No wetland ption (Descri	tream gauge, monity hydrology indicato be to the depth ne	itoring well, acors present.	erial photos, pr	evious insp	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	No wetland ption (Descri	tream gauge, monity hydrology indicato	itoring well, acors present.	erial photos, pr	evious insp	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	No wetland ption (Descri	tream gauge, monity hydrology indicato be to the depth ne etion, RM=Reduced Ma	itoring well, acors present.	erial photos, pr	evious insp	onfirm the	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland ption (Descri	tream gauge, monitive to the depth ne etion, RM=Reduced Ma	toring well, acors present. eeded to docustrix, CS=Cover	erial photos, pr ument the indi ed/Coated Sand	evious insp cator or co Grains; Locat	onfirm the ion: PL=Pc	e absence of in ore Lining, M=Matr	ix)				
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland ption (Descri	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Cover	erial photos, proment the indicated Sand	evious insp cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8	No wetland ption (Descri	tream gauge, monitoring the to the depth network that the depth network the depth network the depth network the depth network the depth n	toring well, acors present. eeded to docustrix, CS=Cover	ument the indicated Sand Color (evious insp cator or co Grains; Locat Moist)	onfirm the ion: PL=Po Mottle %	e absence of in ore Lining, M=Matr es Type	Location	С		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland ption (Descri	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Cover	ument the indicated Sand Color (evious insp cator or co Grains; Locat	onfirm the ion: PL=Pc	e absence of in ore Lining, M=Matr	ix)	Texture C C	Layer is a mix of t		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No wetland ption (Descrintration, D=Deple	hydrology indicato be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 4/2	eeded to docuatrix, CS=Cover	ument the indicated Sand Color (evious insp cator or co Grains; Locat Moist) 3/1	Mottle	e absence of in ore Lining, M=Matr es Type	Location	С	Layer is a mix of t		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	No wetland ption (Descrintration, D=Depleted Programmer) Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol	hydrology indicato be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 4/2 Indicators (ch	eeded to docuatrix, CS=Cover	Color () Hue_2.5Y adicators are	cator or co Grains; Locat Moist) 3/1 not present	Mottle	e absence of incore Lining, M=Matr	Location	C C Indicators f A9 - 1 cm M	or Problematio	wo colors.	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No wetland ption (Descriptration, D=Depletration, D=Depletrat	hydrology indicato be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (chain)	eeded to docuatrix, CS=Cover	color (Hue_2.5Y S5 - Sandy F S6 - Stripped	evious insp cator or co Grains; Locat Moist) 3/1 not present Redox I Matrix	Mottle %	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Cost F	or Problemation	wo colors.	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	No wetland ption (Descrintration, D=Deplete Hue_10YR Hue_2.5Y ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	hydrology indicato be to the depth neetion, RM=Reduced Marix Color (Moist) 2/1 4/2 Indicators (chain)	eeded to docuatrix, CS=Cover	crial photos, programment the indicators are in the indicators are included and indicators are in the indicators are included and in the indicators are included and indicators are included and in the indicators are included and indicators are included and includ	cator or co Grains; Locat Moist) 3/1 not present Redox I Matrix Mucky Minera	Mottle % 50	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S	or Problemation luck (LRR I, J) Prairie Redox (Lurface (LRR G)	wo colors. Soils ¹ RR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	ntration, D=Depleteration, D=Depleterati	hydrology indicato be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (chair)	eeded to docuatrix, CS=Cover	Color (Hue_2.5Y S5 - Sandy F1 S6 - Stripped F1 - Loamy F1 F2 - Loamy F1	cator or co Grains; Locat Moist) 3/1 not present Redox I Matrix Mucky Minera Gleyed Matrix	Mottle % 50	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	or Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	wo colors.	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	ntration, D=Depleteration, D=Depleterati	hydrology indicato be to the depth netion, RM=Reduced Matrix Color (Moist) 2/1 4/2 Indicators (chain in Sulfide Layers (LRR F)	eeded to docuatrix, CS=Cover	Color (Hue_2.5Y S5 - Sandy F1 S6 - Stripped F1 - Loamy F1 F2 - Loamy F1	cator or co Grains; Locat Moist) 3/1 not present Redox I Matrix Mucky Minera Gleyed Matrix d Matrix	Mottle % 50	e absence of incore Lining, M=Matr	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduce	or Problematic luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	wo colors. Soils ¹ RR F, G, H)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: u-158n48w9-c1
					•
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% 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:1 (B)
5.					
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.					Multiply by: OBL spp. 0 x 1 = 0 FACW spp. 0 x 2 = 0 FAC spp. 0 x 3 = 0 FACU spp. 5 x 4 = 20 UPL spp. 30 x 5 = 150
	Total Cover =	0	_		FACW spp. $0 x 2 = 0$
					FAC spp. $0 X 3 = 0$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{\qquad}$ $x = \underline{\qquad}$ $\underline{\qquad}$ $x = \underline{\qquad}$
1.					UPL spp. 30 $x = 5$ 150
2.					
3.					Total <u>35</u> (A) <u>170</u> (B)
4.					
5.					Prevalence Index = B/A = 4.857
6.					
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 ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	30	Υ	NI	
2.	Elymus repens	5	N	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.					
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.
15.	Total Cover	25			vvoody villes - 7 iii woody villoo, rogaralices of florighti
	Total Cover =	35	_		
\\\	(notions (Districts 2004)				
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.				_	
2.				_	Hadrankada Varatatlan Brasanto N
3.					Hydrophytic Vegetation Present?N
5.					
4.	Tatal Ossas				
Davisantas	Total Cover =		·		
Remarks:	The upland vegetation consists of planted Gl	ycine max i	interspers	ed with E	lymus repens.
Additional F	Remarks:				