WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/31/14	
Applicant:		Enbridge								County:	Marshall	
Investigators		KRG/NTT			_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I20A			_			I Classification:	:				
Landform:	Rise		40.0		ocal Relief:					Sample Point:	u-157n47w22-b1	
Slope (%):	3 - 7%	. 190	Latitude: 48.3		Longitude:			<u>Datum:</u>				
		nditions on the site							□ No	Section:		
Are Vegetation		□, or Hydrology	•	•		Are	e normal circun	•	esent?	Township:		
Are Vegetation		□, or Hydrology	□aturally pro	obiematic?			Yes	□ No		Range:	Dir:	
SUMMARY C									L D	NI		
Hydrophytic \			No		<u> </u>				ls Present?		atlanalo Na	
Wetland Hyd			No		ad on onein	نا امسيدان	ما المسلمان م			t Within A W		
Remarks:	rne upiano	point is located be	etween a road	iside ditch ai	nd an agrici	ultural He	eia piantea in si	oybeans. ve	egetation in	ciudes a mix	of grasses and forbs.	
LIVERGLOO	V											
HYDROLOG	Y											
_	•	cators (Check all	I that apply; M	linimum of o	ne primary	or two s	econdary requi	red):				
Primary:	-			_	544 6 14	•			Secondary:			
	A1 - Surface \A2 - High Wa				B11 - Salt (B13 - Aqua					B6 - Surface S		
	A2 - Flight Wa				C1 - Hydro					B10 - Sparsely	Vegetated Concave Surface	
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots ((tilled)
	B2 - Sedimen	t Deposits					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish E		, ,
	B3 - Drift Dep						duced Iron				n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Depo	osits n Visible on Aerial Im	nagery	П	Other (Exp	iain)				D5 - FAC-Neu	trai Test aved Hummocks (LRR F)	
	B9 - Water-St		lagery							D1 - 1103t-1168	avea Hammocks (ERRT)	
Field Observ	vations:											
Surface Wate	er Present?	Yes	Depth	n:	(in.)							
Water Table		Yes	Depth		– (in.)			Wetland F	lydrology l	Present?	N	
			•		— : :							
Saturation Pi	resent?	Yes □	Depth	า:	(in.)							
Saturation Pr			Depth		_ (in.)	octions)	if available:					
Describe Rec	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, p		ections),	if available:					
	orded Data (s		itoring well, ae	rial photos, p		ections),	if available:					
Describe Reco	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, p		ections),	if available:					
Describe Reco	orded Data (s No indicator	stream gauge, moni s of wetland hydro	itoring well, ae ology were ob	rial photos, p	revious insp	,		ndicators)				
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No indicator iption (Descri	tream gauge, moni	itoring well, ae ology were ob	rial photos, poserved.	revious insp	onfirm th	e absence of in					
Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No indicator iption (Descri	etream gauge, moning of wetland hydrous be to the depth ne	itoring well, ae ology were ob	rial photos, poserved.	revious insp	onfirm th	e absence of in					
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Describe Reconstruction Remarks: SOILS Profile Descri	orded Data (s No indicator iption (Descri	etream gauge, moning of wetland hydrous be to the depth neterion, RM=Reduced Matrix	itoring well, ae ology were observed to docustrix, CS=Covered	rial photos, poserved. ment the incoded/Coated Sanc	revious insp licator or co Grains; Locat	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture		Remarks	
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Describe Reconstruction Remarks: SOILS Profile Descripe: C=Concert	orded Data (s No indicator iption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, ae ology were ob eeded to docu atrix, CS=Covere	rial photos, poserved. ment the inced/Coated Sand	revious insp licator or co Grains; Locat	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	ix)	Texture CL FS		Remarks	
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Describe Recordance Remarks: SOILS Profile Descripe: C=Concerdance C=Co	orded Data (s No indicator iption (Descriptration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2	itoring well, ae ology were obseeded to docustrix, CS=Covered 100	rial photos, poserved. ment the income ded/Coated Sand	revious insp	Mottle	e absence of in ore Lining, M=Matr es Type	ix)	CL		Remarks	
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Describe Record Remarks: SOILS Profile Descrit (Type: C=Concerd) Depth (In.) 0-11 11-18 NRCS Hydr	norded Data (s No indicator iption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chains)	itoring well, ae ology were obseeded to docustrix, CS=Covered 100	rial photos, poserved. ment the inced/Coated Sand Color dicators are S5 - Sandy S6 - Strippe	revious insp	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast		c Soils ¹	
Describe Record Remarks: SOILS Profile Descrit (Type: C=Concerd) Depth (In.) 0-11 11-18 NRCS Hydr	iption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chains)	itoring well, ae ology were obseeded to docustrix, CS=Covered 100	rial photos, poserved. ment the inced/Coated Sand Color dicators are S5 - Sandy S6 - Strippe F1 - Loamy	revious insp	Mottle was al	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹	
Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain in Sulfide Layers (LRR F)	itoring well, ae ology were obseeded to docustrix, CS=Covered 100	rial photos, poserved. ment the inced/Coated Sand Color dicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete	revious inspections inspections inspections inspections inspections in the control of the contro	mottle which was all and a	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	Soils ¹ (LRR F, G, H)	
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Describe Reco	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth need ion, RM=Reduced Matrix Color (Moist) 2/1 3/2 Indicators (chain in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LR) cky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, ae ology were obseeded to docustrix, CS=Covered 100 100 100 100 100 100 100 100 100 10	rial photos, poserved. ment the inced/Coated Sand Color Color dicators are S5 - Sandy S6 - Strippe F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F7 - Deplete F8 - Redox	revious inspections in specifically inspections in specifications	Mottle % al x ace	e absence of in ore Lining, M=Matrees Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	CSoils ¹ CLRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	resent,
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-157n47w22-b1
VEGETATIO		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:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	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. $\frac{110}{110}$ x 4 = $\frac{440}{110}$
1.	,				UPL spp. $0 x 5 = 0$
2.					···
3.					Total 110 (A) 440 (B)
4.					(=)
5.					Prevalence Index = $B/A = 4.000$
6.					1 Tovalenee Maex = 2/1 =
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	Total Cover –	0			
	Total Cover =	0			Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Problem Hydrophytic Vegetation (Explain) *
1.	Poa pratensis	30	Y	FACU	
2.	Elymus repens	30	Y	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Trifolium repens	20	N	FACU	present, unless disturbed or problematic.
4.	Phleum pratense	20	N	FACU	Definitions of Vegetation Strata:
5.	Taraxacum officinale	10	N	FACU	
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.
	Total Cover =	110			
	Total Oover =	110			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1	(1 lot 6/26. 00 lt. ladius)				
2.					
3.					Hydrophytic Vegetation Present? N
					Hydrophytic vegetation Fresent?
5.					
4.	Total Cover =	0		_	
Damarka			المام مائمانيا		
Remarks:	Vegetation is dominated by a mix of three gra	asses with	wnite clov	ei.	
Additional F	Remarks:				