WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/06/14	
Applicant:		Enbridge			_					County:	Marshall	
Investigators		MRK/KRG			Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit:	155A			_ .			I Classification:			1	455 45 66 6	
Landform:	Talf		10.0		ocal Relief:		1440000			Sample Point	<u>u-155n45w20-a3</u>	
Slope (%):	0 - 2%	عدمائل محمد عادمائلا	Latitude: 48.2				34410000	Datum:				
		onditions on the sit				1		☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	•	•	Are	e normal circun ☑ Yes	□ No	esent?	Township:	Dim	
Are Vegetation		□, or Hydrology	Haturally pi	oblematic?				□ I N O		Range:	Dir:	
			No					Hydric Soi	le Present?	No		
_				No			Hydric Soils Present? Is This Sampling Poir					
Remarks:		sample point is lo		nen meadow	v dominated	d by inter	mediate wheat			it vvitimi / vv	Charle: NO	
Tromanto.	The apiana	cample point to to		porrindadov	v dominatot	a by inter	modiate whole	grass.				
HYDROLOG	Y											
		ioators (Chaok all	I that apply: N	Ainimum of o	no primary	or two o	ooondory roqui	rod\.				
Primary	•	icators (Check all	i that apply; i	illinimum of C	ne primary	or two s	econdary requi	rea):	Secondary:			
	<u>··</u>	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa	ter Table			B13 - Aqua		l				Vegetated Concave S	urface
	A3 - Saturation				C1 - Hydro					B10 - Drainage		5 . (:) 1)
	B1 - Water M B2 - Sedimen				C2 - Dry S		ater Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living	g Roots (tilled)
	B3 - Drift Dep	•					educed Iron	Noots (not till	, –	•	n Visible on Aerial Ima	aerv
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		97
	B5 - Iron Dep				I Other (Exp	olain)				D5 - FAC-Neu		. – \
		on Visible on Aerial Im tained Leaves	nagery							D7 - Frost-Hea	aved Hummocks (LRR	(F)
	ba - water-s	tailled Leaves										
Field Obser	vations:											
Surface Wat		Yes 🗆	Dep	th:	(in.)					_		
Water Table		Yes	Dep		— (in.)			Wetland F	lydrology l	Present?	N	
Saturation P			•									
Saturation	1696111;	Yes □	Dep	th:	(in.)							
			<u> </u>			nections)	if available:					
Describe Rec	corded Data (s	stream gauge, mon	itoring well, a	erial photos, p	orevious insp	pections),	, if available:					
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Describe Rec Remarks:	corded Data (s	stream gauge, mon	itoring well, a	erial photos, p	orevious insp	pections),	, if available:					
Describe Rec Remarks: SOILS Profile Descri	orded Data (s No primary iption (Descr	stream gauge, mon or secondary hydr ibe to the depth ne	nitoring well, acrological indicates	erial photos, potential photos	orevious inspobserved.	onfirm th	e absence of ir					
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	orded Data (s No primary iption (Descr ntration, D=Depl	or secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist)	rological indice eeded to docidatrix, CS=Cover	erial photos, potential photos	orevious inspobserved.	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks	
Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No primary iption (Description, D=Depl	stream gauge, monor secondary hydrological between the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	rological indiceded to documents, CS=Cover	cators were comment the inced/Coated Sand	orevious insposerved. dicator or cod Grains; Loca	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	ix)	SICL		Remarks	
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Describe Rec Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-20 NRCS Hydr	Hue_10YR Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stream gauge, mon or secondary hydr ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 5/3 Indicators (ch	rological indices eeded to documentarix, CS=Cover % 10 10 heck here if in the content of the conte	cators were comment the inced/Coated Sand Color	content of the conten	onfirm the ation: PL=P Mottl % ation: PL=P Mottl % ation: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressiced Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ons (LRR H, outside MLRA 72, 7	73)
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-155n45w20-a3
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: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	Total Cover =	0			FACW spp. $\frac{20}{10}$
	-				FAC spp. $\frac{10}{10}$ $x 3 = \frac{30}{10}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{20}{0}$ $x = \frac{400}{0}$ $x = \frac{20}{0}$
1.					UPL spp. 80 x 5 = 400
2.					
3.					Total 130 (A) 550 (B)
4.					``
5.					Prevalence Index = B/A = 4.231
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	 Total Cover =	0			Prevalence Index is ≤ 3.0 *
	10101 00001 -				
Harb Ctratum	(Diet eizer Eft redive)				Morphological Adaptations (Explain) *
1.	(Plot size: 5 ft. radius)	80	V	NI	Problem Hydrophytic Vegetation (Explain) *
	Thinopyrum intermedium		NI		* Indicators of hydric soil and wetland hydrology must be
2.	Cirsium arvense	20	N	FACU	present, unless disturbed or problematic.
3.	Agrostis gigantea	10	N	FACW	·
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:
5.	Phalaris arundinacea	10	N	FACW	Trace
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					neight (DBH), regardess of height.
8.					BBU was the state of the state
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 =	130			
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The upland sample point is dominated by inte	ermediate	wheat gra	SS.	
			3		
Additional	Pomarke:				
Additional F	Neilidi K5.				