WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/14/14
Applicant:		Enbridge									County:	Marshall
Investigators:		BEH/MRK				_Subregior	`	or LRR):	MLRA 56		State:	MN
Soil Unit:	I69A							I Classification:				
Landform:	Talf					cal Relief:		22.12.22			Sample Point:	u-156n46w17-e4
Slope (%):	0 - 2%	1141 41 14	Latitude: 48					6348333	<u>Datum:</u>		1	
	·	nditions on the site				ar? (If no, exp				□ No	Section:	
Are Vegetation		□, or Hydrology	•	•			Are	e normal circun	-	esent?	Township:	
Are Vegetation		, ,	□aturally	probl	ematic?			Yes	□ No		Range:	Dir:
SUMMARY C										D 10	N	
Hydrophytic \			Yes			-			Hydric Soil			ette 10 No
Wetland Hyd			No		. 1	. 1 . 1 . 2	-	1			t Within A W	
Remarks:	•		_		•							as likely saturated to an extent
	-	ed agricultural act	tivities in the	e spr	ing. The ar	ea appear	s to nav	e been tilled in	past years a	and is likely	pianted durir	ng ary perioas.
HYDROLOGY	Y											
Wetland Hy	drology Indi	cators (Check all	I that apply;	Mini	mum of on	e primary	or two se	econdary requi	red):			
<u>Primary:</u>							_			Secondary:		
	A1 - Surface \					B11 - Salt (B6 - Surface S	
	A2 - High Wat A3 - Saturatio					B13 - Aqua C1 - Hydro					B10 - Sparsely	Vegetated Concave Surface
	B1 - Water Ma					C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sediment	Deposits				C3 - Oxidiz	ed Rhizos	spheres on Living	Roots (not tille	€ □	C8 - Crayfish E	
	B3 - Drift Dep					C4 - Prese						N Visible on Aerial Imagery
	B4 - Algal Mat					C7 - Thin M		ace		_	D2 - Geomorp	
	B5 - Iron Depo	วรแร n Visible on Aerial Im	nagery			Other (Exp	iain)				D5 - FAC-Neut	rai Test aved Hummocks (LRR F)
	B9 - Water-St		lagery							_	D7 1103(1100	ived Fidinificons (EIXIX F)
Field Observ	vations:											
Surface Wate	er Present?	Yes □	De	epth:		(in.)			387 41 111		- 40	
Water Table	Present?	Yes □		· epth:		(in.)			Wetland H	iyarology I	Present?	N
Saturation Pr	esent?	Yes □	De	pth:		- (in.)						
						(111.)						
Describe Reco	orded Data (s	tream gauge moni	itoring well :		I nhotos pre	• • •	ections)	if available:				
	· · ·	tream gauge, moni		aerial		evious insp	ections),	if available:				
Describe Reco	· · ·	tream gauge, moni or secondary hydr		aerial		evious insp	ections),	if available:				
Remarks:	· · ·			aerial		evious insp	ections),	if available:				
Remarks:	No primary	or secondary hydr	rological ind	aerial	ors were ob	evious insposerved.	·		idicators.)			
Remarks: SOILS Profile Descri	No primary		rological ind	aerial	ors were ob	evious insposerved.	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary hydro be to the depth ne etion, RM=Reduced Ma	rological ind	aerial	ors were ob	evious insposerved.	onfirm the	e absence of in				
Remarks: SOILS Profile Descri	No primary	or secondary hydro	rological independent of the control	aerial	ors were ob	evious insposerved.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri	No primary	or secondary hydro be to the depth ne etion, RM=Reduced Ma	rological independent of the control	aerial	ors were ob	evious insposerved. cator or co	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concen	No primary	be to the depth ne etion, RM=Reduced Ma	eeded to do	aerial	ent the indicoated Sand (evious insposerved. cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	Texture FSL		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-10 10-15	No primary ption (Descrintration, D=Depleted) Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/4	eeded to do	aerial dicato	ent the indicoated Sand Color (I	evious insposerved. cator or cograins; Locat	onfirm the ion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL FS	Many gravel fragr	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-10 10-15	No primary ption (Descrintration, D=Depleted) Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) 2/1 6/4	eeded to do	aerial dicato	ent the indicoated Sand Color (I	evious insposerved. cator or cograins; Locat	onfirm the ion: PL=Pe Mottle	e absence of in ore Lining, M=Matr es Type	Location	FSL FS	Many gravel fragr	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	e: L3R				Sample Point: u-156n46w17-e4
/EGETATIC	· · ·	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:1(A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					
6.					Paraent of Deminant Species That Are ORL EACW or EAC: 50.0% (A/R)
					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 spp40
	Total Cover =	0			Total % Cover of: Multiply by: OBL spp. 40 x 1 = 40 FACW spp. 0 x 2 = 0 FAC spp. 25 x 3 = 75 FACU spp. 50 x 4 = 200 UPL spp. 0 x 5 = 0
	•				FAC spp. $\frac{25}{25}$ $\times 3 = \frac{75}{15}$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 50 x 4 = 200
1.	ettatam (r iet eizer Te itt raaide)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.					
					Total 115 (A) 245 (D)
3.					Total 115 (A) 315 (B)
4.					_
5.					Prevalence Index = B/A = 2.739
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.		0			X Prevalence Index is ≤ 3.0 *
	Total Gover =				
					Morphological Adaptations (Explain) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Beckmannia syzigachne	35	Y	OBL	
2.	Trifolium hybridum	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Echinochloa crus-galli	20	N	FAC	present, unless disturbed or problematic.
4.	Setaria pumila	20	N	FACU	Definitions of Vegetation Strata:
5.	Epilobium coloratum	5	N	OBL	1
6	Panicum capillare	5	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Artemisia biennis	5	N	FACU	height (DBH), regardless of height.
	Arternisia bierinis		11	TACO	
8.					One the wife was Mondy plants loss than 2 in DDH regardless of height
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.					1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover	445			Troody vinics
	Total Cover =	115			
Woody Vine S	stratum (Plot size: 30 ft. radius)				
1.					
2.					
3.		_			Hydrophytic Vegetation Present? Y
5.					
4.					
•••	Total Cover =	0			
Remarks:			siko olovor	Lydroph	lytic prevalence may be a result of an unusually wet spring and early summer.
Remarks.	The sample point is dominated by slough gra	iss and als	sike clovel	. пушорп	yild prevalence may be a result of all unusually wet spring and early summer.
Additional	Remarks:				