WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/12/14		
Applicant:		Enbridge								County:	Marshall		
Investigators	:	MRK/BEH			_Subregior	n (MLRA oi	r LRR):	MLRA 56		State:	MN		
Soil Unit:	I24A					NWIC	Classification:						
Landform:	Talf			Lo	cal Relief:					Sample Point:	u-156n47w1-c1		
Slope (%):	0 - 2%		Latitude: 48.3			-96.64121		Datum:					
Are climatic/h		onditions on the site			ar? (If no, exp				□ No	Section:			
Are Vegetation			⊏significantly			Are n	normal circum	nstances pr	esent?	Township:			
Are Vegetation			□aturally pro	oblematic?			✓ Yes	□ No		Range:	Dir:		
SUMMARY C	OF FINDING:	S											
Hydrophytic \	Vegetation P	resent?	No		_				Is Present?				
Wetland Hyd	Irology Prese	ent?	No					Is This Sa	mpling Poin	t Within A We	etland? No		
Remarks:	The upland	sample point is loca	ated in a cul	tivated wheat	field with s	scattered w	wild oats thro	ughout. The	e site is nea	r a seasonally	y-flooded basin.		
HYDROLOG	Υ												
Wetland Hy	drology Ind	licators (Check all t	hat annly: M	linimum of or	e primary (or two seco	ondary requir	.eq).					
Primary:		ilcators (Crieck all t	iliat apply, ivi		e primary (or two sect	oridary requir	eu).	Secondary:				
	A1 - Surface	Water			B11 - Salt C	Crust				B6 - Surface S	oil Cracks		
	A2 - High Wa				B13 - Aqua						√egetated Concave Su	ırface	
	A3 - Saturation					gen Sulfide C	Odor			B10 - Drainage Patterns			
	B1 - Water M				□ C2 - Dry Season Water Table □						C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimer	•					neres on Living	Roots (not till	lŧ 🗀	C8 - Crayfish E			
	B3 - Drift Dep					nce of Reduc luck Surface					Nation Visible on Aerial Imag	gery	
	B4 - Algal Ma B5 - Iron Dep				Other (Expl		.		H	D2 - Geomorph D5 - FAC-Neut			
		on Visible on Aerial Ima	agerv		Other (Expi	ality					ived Hummocks (LRR	F)	
		tained Leaves	.9 ,						_		(. ,	
Field Observ	vations:												
Surface Water		Yes □	Denth	ղ:	(in.)								
Water Table		Yes		ነ. ገ:	(in.)			Wetland F	łydrology l	Present?	N		
Saturation Pr		Yes \square	Depti		(in.)						—		
Saturation	1636111:	163	Depti	1.	\								
					<u> </u>								
	<u> </u>	stream gauge, monito			evious insp	ections), if a	available:						
Describe Reco	<u> </u>	stream gauge, monito			evious insp	ections), if a	available:						
Remarks:	<u> </u>				evious insp	ections), if a	available:						
Remarks:	No primary	or secondary hydro	logical indica	ators were ob	evious inspo eserved.								
Remarks: SOILS Profile Descri	No primary	or secondary hydro	logical indicated	ators were obtained in the second sec	evious insposerved.	onfirm the a	absence of in						
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Remarks: SOILS Profile Descri	No primary	or secondary hydro ibe to the depth nee letion, RM=Reduced Mat	logical indicated	ators were obtained in the second sec	evious insposerved.	onfirm the a	absence of in Lining, M=Matri						
Remarks: SOILS Profile Descri (Type: C=Concer	No primary	or secondary hydro ibe to the depth nee letion, RM=Reduced Mat Matrix	eded to docu	ment the indi	evious insposerved. cator or co	onfirm the a ion: PL=Pore Mottles	absence of in e Lining, M=Matri	ix)					
Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydro ibe to the depth neeletion, RM=Reduced Mat Matrix Color (Moist)	eded to docu	ment the indi	evious insposerved. cator or co	onfirm the a	absence of in Lining, M=Matri		Texture		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer	No primary iption (Descr	or secondary hydro ibe to the depth neeletion, RM=Reduced Mat Matrix Color (Moist) 2/1	eded to docu	ment the indi	evious insposerved. cator or co	onfirm the a ion: PL=Pore Mottles	absence of in e Lining, M=Matri	ix)			Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No primary iption (Descriptration, D=Dep	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2	eded to docu rix, CS=Covere	ment the indi	evious insposerved. cator or co	onfirm the a ion: PL=Pore Mottles	absence of in e Lining, M=Matri	ix)	FSL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15	No primary iption (Description, D=Depineration, D=Depineration) Hue_10YR Hue_10YR	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2	eded to docu erix, CS=Covere % 100	ment the indi	evious insposerved. cator or co	onfirm the a ion: PL=Pore Mottles	absence of in e Lining, M=Matri	ix)	FSL FSL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15	No primary iption (Description, D=Depineration, D=Depineration) Hue_10YR Hue_10YR	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2	eded to docu erix, CS=Covere % 100	ment the indi	evious insposerved. cator or co	onfirm the a ion: PL=Pore Mottles	absence of in e Lining, M=Matri	ix)	FSL FSL		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18	No primary iption (Description, D=Depineration, D=Depineratio	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4	eded to docu erix, CS=Covere % 100 100	ment the indi	evious inspersed. cator or co Grains; Locati Moist)	Mottles	absence of in E Lining, M=Matri	ix)	FSL FSL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15	No primary iption (Description, D=Depineration, D=Depineratio	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4	eded to docu erix, CS=Covere % 100 100	ment the indi	evious inspersed. cator or co Grains; Locati Moist)	Mottles	absence of in E Lining, M=Matri	ix)	FSL FSL FS	or Problematic			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18 NRCS Hydr	No primary iption (Description, D=Depintration, D=Depintratio	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4	eded to docu erix, CS=Covere % 100 100	ment the indi	evious inspersed. cator or co Grains; Locati Moist) not present	Mottles	absence of in E Lining, M=Matri	Location	FSL FSL FS	or Problematic			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18 NRCS Hydr	No primary Iption (Description, D=Depintration, D=Depintratio	or secondary hydro ibe to the depth needletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4 I Indicators (cheedletion)	eded to docu erix, CS=Covere % 100 100	ment the indicators are in the state of the	evious inspersed. cator or co Grains; Locati Moist) not present ledox Matrix	Mottles %	absence of in E Lining, M=Matri	Location	FSL FSL FS Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black History	or secondary hydro ibe to the depth neeletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4 I Indicators (checking)	eded to docu erix, CS=Covere % 100 100	ment the indicators are in the state of the	evious insperserved. cator or co Grains; Locati Moist) not present ledox Matrix Mucky Minera	Mottles %	absence of in E Lining, M=Matri	Location	FSL FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)	3)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydro ibe to the depth needletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4 I Indicators (checken Sulfide	eded to docu erix, CS=Covere % 100 100	ment the indicators are in the state of the	evious insperserved. cator or co Grains; Locati Moist) not present ledox Matrix Mucky Minera Gleyed Matrix	Mottles %	absence of in E Lining, M=Matri	Location	FSL FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	: Soils ¹	3)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	or secondary hydro ibe to the depth needletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4 Indicators (check of Sulfide de Layers (LRR F) ack (LRR FGH)	eded to docu erix, CS=Covere % 100 100 200 200 200 200 200 200 200 200	dicators are used to some state of the solution of the solutio	evious insperserved. cator or cograins; Location Moist) not present ledox Matrix Mucky Mineral Gleyed Matrix Matrix	Mottles %	absence of in E Lining, M=Matri	Location	FSL FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressions ed Vertic Parent Material	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73	3)	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-15 15-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_2.5Y Tic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	or secondary hydro ibe to the depth needletion, RM=Reduced Mate Matrix Color (Moist) 2/1 4/2 6/4 Indicators (check of Sulfide et Layers (LRR F) Jick (LRR FGH) Jick (LRR FGH) Jick Below Dark Surface	eded to docu erix, CS=Covere % 100 100 200 200 200 200 200 200 200 200	ment the indicators are in the state of the	evious insperserved. cator or cograins; Location Moist) not present dedox Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface	Mottles %	absence of in E Lining, M=Matri	Location	FSL FSL FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73	3)	
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: u-156n47w1-c1
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: 1 (B)
5.					``
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					- referred bornmant species that Are OBE, I AGW, OF AG. (A/B)
					Drovolongo Indov Workshoot
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.		-			OBL spp. 0
	Total Cover =	0			FACW spp. $\underline{\qquad}$ $X 2 = \underline{\qquad}$ $\underline{\qquad}$
					$FAC spp. \underline{\qquad \qquad 0 \qquad \qquad } x 3 = \underline{\qquad \qquad 0 \qquad }$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 x 4 = 0$
1.					UPL spp. ${85}$ $x = 5$ ${425}$
2.					
3.					Total 85 (A) 425 (B)
4.					
5.					Prevalence Index = B/A = 5.000
6.					- S.000
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.	Triticum aestivum	85	V	NI	1 Toblem Trydrophytic Vegetation (Explain)
	Thucum aestivum		'	111	* Indicators of hydric soil and wetland hydrology must be
2.					present, unless disturbed or problematic.
3.					·
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.					-
					I I a - I All horhopopus (non woody) plants, regardless of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	85			1
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.	tratum (Flot size. 30 ft. radius)				
2.					
					Lindrankovija Variatatian Duaranto
3.					Hydrophytic Vegetation Present?N
5.					
4.					
	Total Cover =	0			
Remarks:	The upland area is located in a cultivated wh	eat field w	ith wild oat	ts scattere	ed throughout.
	•				
A al al!4! a ! !	Damanika.				
Additional I	kemarks:				