## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/12/14
Applicant:		Enbridge								County:	Marshall
Investigators		BEH/MRK			Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	165A			<u></u>			Classification:	PEMA			
Landform:	Talf		10		Local Relief:		0050400			Sample Point:	u-156n46w7-b1
Slope (%):	0 - 2%	1142 41 14	Latitude: 48		Longitude:			Datum:			
		nditions on the site							□ No	Section:	
Are Vegetation		□, or Hydrology	•	•	?	Are	normal circum	-	esent?	Township:	
Are Vegetation			□aturally p	problematic?			Yes	□ No		Range:	Dir:
SUMMARY C									D 10		
Hydrophytic \			No						s Present?		(I IO N.
Wetland Hyd			No				Calab The aire			t Within A We	etland? <b>No</b>
Remarks:	i ne sampie	point is within a p	previously-m	iapped invvi p	polygon in a	soybean	field. The site	contains no	wetiand fea	atures.	
	·										
HYDROLOG	Y										
Wetland Hy	drology Indi	cators (Check all	I that apply;	Minimum of	one primary	or two se	econdary requir	red):			
<u>Primary:</u>						_			Secondary:		
	A1 - Surface \			[	_ D Oan					B6 - Surface S	
	A2 - High Wat A3 - Saturatio			[	□ B13 - Aqua □ C1 - Hydro		e Odor			B10 - Sparsely V	Vegetated Concave Surface
	B1 - Water Ma				☐ C1 - Hydro				i i		Rhizospheres on Living Roots (tilled)
	B2 - Sediment						pheres on Living	Roots (not tille		C8 - Crayfish E	
	B3 - Drift Dep	•		[				`		_	n Visible on Aerial Imagery
	B4 - Algal Mat			[	□ C7 - Thin N		ace			D2 - Geomorpl	
	B5 - Iron Depo			[	☐ Other (Exp	lain)				D5 - FAC-Neut	
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Im	nagery						П	D7 - Frost-Hea	aved Hummocks (LRR F)
	by - water-st	allieu Leaves									
Field Observ	vations:										
Surface Water		Voc. □	Do	oth:	(in )						
Water Table		Yes □ Yes □	'	oth: oth:	(in.)			Wetland H	lydrology <mark>l</mark>	Present?	N
			'		(in.)						<del>_</del>
Saturation Present? Yes Depth: (in.)											
	<u> </u>	tream gauge, moni	itoring well, a	aerial photos,	previous insp	ections),	if available:				
Describe Reco	<u> </u>		itoring well, a	aerial photos,	previous insp	ections),	if available:				
Remarks:	<u> </u>	tream gauge, moni	itoring well, a	aerial photos,	previous insp	ections),	if available:				
Remarks:	No primary	tream gauge, moni or secondary hydr	itoring well, a	aerial photos, icators were	previous insp observed.	·		dicators )			
Remarks:  SOILS Profile Descri	No primary	tream gauge, monior secondary hydrobe to the depth ne	itoring well, a rological ind	aerial photos, icators were	previous insposerved.	onfirm the	e absence of in				
Remarks:  SOILS Profile Descri	No primary	tream gauge, moni or secondary hydr	itoring well, a rological ind	aerial photos, icators were	previous insposerved.	onfirm the	e absence of in				
Remarks:  SOILS Profile Descri	No primary	tream gauge, monior secondary hydrobe to the depth neetion, RM=Reduced Marketion, RM=Reduced Marketion, RM=Reduced Marketion, RM=Reduced Marketion, RM=Reduced Marketion, RM=Reduced Marketical Marketical RM=Reduced RM=Red	itoring well, a rological ind	aerial photos, icators were	previous insposerved.	onfirm the	e absence of in ore Lining, M=Matri				
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	tream gauge, monior secondary hydrote to the depth netion, RM=Reduced Matrix	itoring well, a rological independent to doe latrix, CS=Covernment.	icators were cument the inered/Coated Sar	previous insposerved.  Idicator or cond Grains; Locat	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	ix)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary ption (Descri	tream gauge, monior secondary hydrobe to the depth netion, RM=Reduced Matrix Color (Moist)	itoring well, a rological independent to do latrix, CS=Cover	cument the inered/Coated Sar	previous insposerved.	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11	No primary ption (Descri	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1	rological ind eeded to doo latrix, CS=Cove	cument the intered/Coated San	previous insposerved.  Idicator or cond Grains; Locat	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	ix)	FSL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-16	No primary  ption (Descrintration, D=Deple  Hue_10YR  Hue_2.5Y	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 4/1	rological ind eeded to doo latrix, CS=Cove	cument the inered/Coated Sar	previous insposerved.  Idicator or cond Grains; Locat	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matri	ix)	FSL FSL		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-16 16-21	No primary  ption (Descrintration, D=Deplete Deplete D	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  4/1  7/3	eeded to doo	cument the inered/Coated San	previous insposerved.  Indicator or cond Grains; Locator (Moist)	Mottle	e absence of in ore Lining, M=Matri es Type	ix)	FSL FSL		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-16 16-21  NRCS Hydr	No primary  ption (Descrintration, D=Deple  Hue_10YR Hue_2.5Y Hue_2.5Y  ic Soil Field  A1- Histosol	tream gauge, monitor secondary hydrote be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  4/1  7/3  Indicators (ch	eeded to doo	cument the intered/Coated Sar	previous insposerved.  Idicator or cond Grains; Locator (Moist)  e not present	Mottle	e absence of in ore Lining, M=Matri es Type	Location	FSL FS FS Indicators f A9 - 1 cm M	uck (LRR I, J)	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-16 16-21  NRCS Hydr	No primary  ption (Descriptration, D=Deplete Deplete D	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 4/1 7/3 Indicators (characters)	eeded to doo	icators were cument the intered/Coated San Color	previous insposerved.  Idicator or cond Grains; Locator (Moist)  Per not present (Redox ed Matrix)	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	FSL FS FS Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-16 16-21  NRCS Hydr	ption (Descrintration, D=Depletentration, D=Deplete	tream gauge, monitor secondary hydroperate to the depth need on the depth need on the determinant of the depth need on the depth need on the determinant of the depth need on	eeded to doo	icators were  cument the intered/Coated San  Color Col	previous insponent of condicator or condicat	Mottle % ti):	e absence of in ore Lining, M=Matri es Type	Location	FSL FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-16 16-21  NRCS Hydr	ption (Descrintration, D=Depletentration, D=Deplete	tream gauge, monitor secondary hydror secondary hydror be to the depth neetion, RM=Reduced Marx  Matrix  Color (Moist)  2/1  4/1  7/3  Indicators (characters)  ipedon  itic  n Sulfide  Layers (LRR F)  ck (LRR FGH) d Below Dark Surface	eeded to doo latrix, CS=Cove	icators were  cument the intered/Coated San  Color Col	previous insponents of condicator or condica	Mottle % tion: PL=Po	e absence of in ore Lining, M=Matri es Type	Location	FSL FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressiced Vertic arent Material Shallow Dark S	E Soils <sup>1</sup> ELRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-156n46w7-b1
VEGETATIO		e non-native s	pecies.)		
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: (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp 0
	Total Cover =	0	_		FACW spp. $0   x 2 = 0$
					Total % Cover of:       Intuitiply 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.       45       X 5 = 225
_	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{\qquad}$ $X = \underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$
1.					UPL spp. $45$ $x = 225$
2.					
3.					Total <u>50</u> (A) <u>245</u> (B)
4.					
5.					Prevalence Index = B/A = 4.900
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	45	Υ	NI	
2.	Ambrosia artemisiifolia	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.				_	<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					<b>Woody Vines -</b> All woody vines, regardless of height.
	Total Cover =	50			
	10101 00001 -		-		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1	ratum (Flot size: 50 ft. radius)				
2.				_	
3.					Hydrophytic Vegetation Present? N
5.					injurophytio regetation i resent:
4.					
٦.	Total Cover =	0		_	
Remarks:	The site is dominated by soybean with scatte		d nresent		
rtemarks.	The site is dominated by soybean with scatte	rea ragweet	a present		
	Name and an				
Additional R	kemarks:				