## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/27/14	
Applicant:		Enbridge								County:	Kittson	
Investigators					Subregio		or LRR): MLRA 56			State:	MN	
Soil Unit:	I133A		NWI Classification:									
Landform:	Talf			Lo	cal Relief:					Sample Point:	u-159n49w36-a1	1
Slope (%):	0 - 2%		Latitude: 48.5		Longitude:			Datum:				
Are climatic/l	, ,	onditions on the site	, · · · · · · · · · · · · · · · · · · ·		ar? (If no, exp			□Yes	☑ No	Section:		
Are Vegetation	on 📮 Soi	I ☑ or Hydrology	□gnificantly	/ disturbed?		Are	e normal circur	nstances pre	esent?	Township:		
Are Vegetation	on 🖵 Soi	I ☐ or Hydrology	☐aturally pro	blematic?			☑ Yes	□No		Range:	Dir:	
SUMMARY (	OF FINDING	S										
Hydrophytic Vegetation Present?							Hydric Soils Present? No					
Wetland Hydrology Present?					_		Is This Sampling Point Within A Wetland? No					
Remarks:	The sample	site is located in a	a tilled, plante	d corn field n	ext to a na	arrow stri	p of unplanted	land. The fi	eld drains i	nto an adjace	ent roadside ditch.	Recent heavy
	rains have a	affected the region	l.							•		•
HYDROLOG	Υ											
						_						
		icators (Check all	that apply; M	inimum of on	e primary	or two se	econdary requi	ired):				
Primary:					B11 - Salt	Cruet			Secondary:	B6 - Surface S	oil Cracks	
☐ A1 - Surface Water ☐ A2 - High Water Table					B13 - Aqua						Vegetated Concave S	Surface
1 5	A3 - Saturation									B10 - Drainage		burrace
	B1 - Water M										Rhizospheres on Livin	ng Roots (tilled)
	B2 - Sedimen			☐ C3 - Oxidized Rhizospheres on Living Roots (not tille☐ ☐ C4 - Presence of Reduced Iron☐ ☐							Burrows	
	B3 - Drift Dep										No Visible on Aerial Ima	agery
	B4 - Algal Ma B5 - Iron Dep				Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu		
		osits on Visible on Aerial Im	nagery		Other (Exp	iaiii)					irai rest aved Hummocks (LRF	S E/
	B9 - Water-S		lagery						_	D7 - 1103t-1106	avea Hammocks (Erki	(1)
_												
Field Observ	vations:											
Surface Wat		Voc 🗆	Donth		(in )							
Water Table			Depti	: :	(in.)			Wetland H	lydrology I	Present?	N	
		_									_	
Saturation Present? Yes Depth: (in.)												
	Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge, moni	itoring well, ae	rial photos, pr	evious insp	ections),	if available:					
Describe Reco		stream gauge, moni			evious insp	ections),	if available:					
					evious insp	pections),	if available:					
Remarks: SOILS	No indicato	rs of wetland hydro	ology were ob	served.	·	·						
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro	ology were ob	served.	cator or co	onfirm the	e absence of ir					
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Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced Ma	ology were ob	served.	cator or co	onfirm the	e absence of ir ore Lining, M=Mat					
Remarks: SOILS Profile Descri	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced Ma Matrix	eeded to docu	ment the indi	cator or co	onfirm the tion: PL=Pc	e absence of ir ore Lining, M=Mat					
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-13 13-18 13-18  NRCS Hydr	Pition (Description) (Descript	ibe to the depth ne etion, RM=Reduced Mineral Matrix  Color (Moist)  2/1  2/1  3/1  3/1  2/1  Indicators (chair)  ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) et delow Dark Surface aucky Mineral Mucky Peat or Peat (LR) leyed Matrix	blogy were observed to document to documen	ment the indid/Coated Sand  Color (  Hue_10YR  Hue_2.5Y  I S5 - Sandy R S6 - Stripped F1 - Loamy ( F2 - Loamy ( F3 - Depletect F6 - Redox D F7 - Depletect F8 - Redox D F16 - High Pl	Cator or co Grains; Loca:  Moist)  3/4  7/1  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	Mottle % 15 15 15 15 15 15 15 15 15 15 15 15 15	e absence of in one Lining, M=Mates  Type  C  D  RA 72, 73 of LRI	Location  M  M  R H)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Red uc TF2 - Red P TF12 - Very Other (Explain the cost of	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Prairie Material Prairie Material Shallow Dark S Ain in Remarks)	c: Soils <sup>1</sup> RR F, G, H)  DIS (LRR H, outlade MLRA 72,	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-13 13-18 13-18 NRCS Hydr	Pition (Description) (Descript	ibe to the depth ne etion, RM=Reduced Mineral Matrix  Color (Moist)  2/1  2/1  3/1  3/1  2/1  Indicators (chair)  ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) et delow Dark Surface aucky Mineral Mucky Peat or Peat (LR) leyed Matrix	blogy were observed to document to documen	ment the indid/Coated Sand  Color (  Hue_10YR  Hue_2.5Y  Bisconding Sandy Research  Solution Sandy Research  For - Sendy Research  For - Depleted  For - Depleted  For - Depleted  For - Depleted  For - Redox Depleted  For - Sendy Research  For - Sendy R	Cator or co Grains; Loca:  Moist)  3/4  7/1  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surfa epressions ains Depres	Mottle  Mottle  1  15  tt):	e absence of in one Lining, M=Mates  Type  C  D  RA 72, 73 of LRI	Location M	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Red uc TF2 - Red P TF12 - Very Other (Explain the cost of	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Prairie Material Prairie Material Shallow Dark S Ain in Remarks)	c: Soils <sup>1</sup> RR F, G, H)  DIS (LRR H, outlade MLRA 72,	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-13 13-18 13-18  NRCS Hydr	Hue 10YR Hue 2.5Y Hue 2.5Y Hue 10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth ne etion, RM=Reduced Mineral Matrix  Color (Moist)  2/1  2/1  3/1  3/1  2/1  Indicators (chair)  ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) et delow Dark Surface aucky Mineral Mucky Peat or Peat (LR) leyed Matrix	eeded to doculatrix, CS=Covere  % 100 85 14 70 15 neck here if in	ment the indid/Coated Sand  Color (  Hue_10YR  Hue_2.5Y  Hue_2.5Y  S5 - Sandy R S6 - Stripped F6 - Loamy R F7 - Loamy R F7 - Depleted F6 - Redox D F6 - Redox D F6 - High Pl  Depth:	cator or co Grains; Loca Moist)  3/4  7/1  not presen edox Matrix Mutrix Mutrix Mutrix I Matrix ark Surface I Dark Surface I Dark Surface I Dark Surface I Dark Surface	Mottle  Mottle  1  15  t):	e absence of in one Lining, M=Mates  Type  C  D  RA 72, 73 of LRI  Hydric So	Location  M  M  R H)	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Red uc TF2 - Red P TF12 - Very Other (Explain the cost of	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Prairie Material Prairie Material Shallow Dark S Ain in Remarks)	c: Soils <sup>1</sup> RR F, G, H)  DIS (LRR H, outlade MLRA 72,	

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w36-a1				
-					•				
VEGETATION (Species identified in all uppercase are non-native species.)  Tree Stratum (Plot size: 30 ft. radius)									
Tiee Stratum (	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet				
1.	Species Name	76 COVEL	Dominant	iiiu.Status	Dominance rest Worksheet				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
3.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)				
					Total Number of Descinant Opening Assess All Objects F. (D)				
4.					Total Number of Dominant Species Across All Strata: (B)				
5.					5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
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 x 1 = 0				
	Total Cover =	0			FACW spp. 0 x 2 = 0				
	•		_		FAC spp. $0   x   3 = 0$				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 50 x 4 = 200				
1.	( 1111 )				UPL spp. 50 x 5 = 250				
2.					· · · · · · · · · · · · · · · · · · ·				
3.					Total 100 (A) 450 (B)				
4.					10tal 100 (F) 400 (D)				
5.					Dravelence Index = D/A = 4.500				
					Prevalence Index = B/A = 4.500				
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 (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Medicago sativa	20	Υ	NI					
2.	Elymus repens	15	Y	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Poa pratensis	15	Ϋ́	FACU	present, unless disturbed or problematic.				
4.	Bromus inermis	15	Ÿ	UPL	Definitions of Vegetation Strata:				
			Y		Definitions of Vegetation Strata.				
5.	Zea mays	15		NI	Tena				
6	Phleum pratense	10	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.				
7.	Amaranthus retroflexus	5	N	FACU	rieight (DBH), regardiess of neight.				
8.	Fallopia convolvulus	5	N	FACU					
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 =	100							
	Total Cover –	100	_						
Wood: Vr - C	rotum (Diot oizo: 20 ftdius)								
	atum (Plot size: 30 ft. radius)								
1.				-					
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover =	0							
Remarks:	The vegetation is dominated by alfalfa and u	pland gras	ses east o	of the sam	ple point, and by corn west of the sample point.				
The state of the s									
Additional Remarks:									
Additional Remarks:									