## WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	07/24/14
Applicant:		Enbridge								County:	Pennington
Investigators		BCS/BEH			_Subregio	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I19A			<del>_</del> .			I Classification	:			
Landform:	Talf				cal Relief:		4005000			Sample Point:	u-154n45w12-e1
Slope (%):	0 - 2%		_atitude: 48.1				4285000	Datum			
	·	nditions on the site			ar? (If no, ex				□ No	Section:	
Are Vegetation			•	ly disturbed?		Are	e normal circur	-	esent?	Township:	
Are Vegetation			□aturally pi	oblematic?			Yes	□ No		Range:	Dir:
SUMMARY C									·	NI	
Hydrophytic \	•		No		_				ils Present?		11 12 No.
Wetland Hyd			No							t Within A W	
Remarks:	The upland	sample area is loca	ated upslop	e of the assoc	ciated road	Iside ditci	h wetland with	in a tilled, a	gricultural fie	eld planted to	winter wheat.
HYDROLOG'	Y										
Wetland Hy	drology Ind	icators (Check all t	hat apply; N	Ainimum of or	ne primary	or two se	econdary requi	red):			
Primary:	•	•	11 37		, ,		, ,	,	Secondary:		
	A1 - Surface				B11 - Salt					B6 - Surface S	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturation				C1 - Hydro					B10 - Drainage	
	B1 - Water M B2 - Sedimer				C2 - Dry S		spheres on Living	Roots (not til		C8 - Crayfish E	Rhizospheres on Living Roots (tilled
	B3 - Drift Dep	•					duced Iron	rtoots (not th			n Visible on Aerial Imagery
	B4 - Algal Ma			_	C7 - Thin N					D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
		on Visible on Aerial Ima	gery							D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
Field Observ											
Surface Wate	er Present?	Yes □	Dept	th:	_ (in.)			Wetland I	Hydrology I	Present?	N
Water Table		Yes □	Dept	th:	_ (in.)			Wolland I	iyarology i	10001111	
Saturation Pr	resent?	Yes □	Dept	th:	(in.)						
Describe Reco	orded Data (s	stream gauge, monito	oring well, a	erial photos, pr	evious insp	pections),	if available:				
	`	stream gauge, monito		• • •	<u> </u>		if available:				
Describe Reco	`	stream gauge, monito or secondary wetla		• • •	<u> </u>		if available:				
Remarks:	`			• • •	<u> </u>		if available:				
Remarks:	No primary		nd hydrolog	y indicators w	vere obser	ved.		ndicators.)			
Remarks:  SOILS Profile Descri	No primary	or secondary wetlan	nd hydrolog	y indicators w	vere observicator or co	ved.	e absence of ir				
Remarks:  SOILS Profile Descri	No primary	or secondary wetland	nd hydrolog	y indicators w	vere observicator or co	ved.	e absence of ir				
Remarks:  SOILS Profile Descri	No primary	or secondary wetland	nd hydrolog	y indicators w	vere observicator or co	ved.	e absence of ir ore Lining, M=Mat				
Remarks:  SOILS Profile Descri	No primary	or secondary wetlands ibe to the depth need to the depth need to the depth need to many the	nd hydrolog	y indicators w ument the ind ed/Coated Sand	vere observicator or co	onfirm the	e absence of ir ore Lining, M=Mat		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	or secondary wetlands  ibe to the depth need etion, RM=Reduced Mate  Matrix  Color (Moist)	eded to docu	y indicators was ument the inded/Coated Sand	vere observicator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descriptration, D=Depl	or secondary wetland ibe to the depth need etion, RM=Reduced Materian Matrix  Color (Moist)  2/1	eded to docu	ument the ind	vere observicator or co	onfirm the	e absence of ir ore Lining, M=Mat	rix)			Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	No primary  ption (Descriptration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR	or secondary wetland be to the depth need etion, RM=Reduced Material Matrix  Color (Moist)  2/1 2/2	eded to docurix, CS=Cover	y indicators w	icator or congrains; Loca	onfirm the	e absence of ir ore Lining, M=Mat es Type	Location	SCL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary  ption (Descriptration, D=Depl	or secondary wetland be to the depth need etion, RM=Reduced Material Matrix  Color (Moist)  2/1 2/2	eded to docurix, CS=Cover	y indicators was ument the inded/Coated Sand  Color (	icator or congrains; Loca	onfirm the	e absence of ir ore Lining, M=Mat	rix)	SCL		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18	No primary  ption (Descriptration, D=Depl  Hue_10YR Hue_10YR Hue_10YR	or secondary wetland be to the depth need etion, RM=Reduced Materian Matrix  Color (Moist)  2/1  2/2  3/4	eded to docurix, CS=Cover	y indicators w	icator or configurations; Local	Mottle	e absence of ir ore Lining, M=Mat es Type	Location	SCL LS S		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21	No primary  Iption (Description, D=Deplementation, D=Deplementatio	or secondary wetland be to the depth need etion, RM=Reduced Materian Matrix  Color (Moist)  2/1  2/2  3/4	eded to docurix, CS=Cover	color (CO) Hue_7.5YF	icator or configurations; Local (Moist)  R 4/3  not present	Mottle	e absence of ir ore Lining, M=Mat es Type C	Location	SCL LS S	or Problematic	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-10 10-18 18-21  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	or secondary wetland ibe to the depth need etion, RM=Reduced Materian Matrix  Color (Moist)  2/1  2/2  3/4  Indicators (checking the stice)	eded to docurix, CS=Cover	Color (CO)  Hue_7.5YF  S5 - Sandy F  S6 - Stripped F1 - Loamy F	icator or configuration (Moist)  R 4/3  not present Redox Matrix Mucky Miner	mottle  Mottle  2  at):	e absence of ir ore Lining, M=Mat es Type C	Location	SCL LS S Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	c Soils <sup>1</sup> (LRR F, G, H)
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R				Sample Point: u-154n45w12-e1				
					•				
<b>VEGETATIO</b>	N (Species identified in all uppercase are	e non-native s	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				
					FAC spp. $0   x   3 = 0$				
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $25$ $X 4 = 100$				
1.					UPL spp. $70$ $x = 5$ $350$				
2.									
3.					Total 95 (A) 450 (B)				
4.									
5.					Prevalence Index = B/A = 4.737				
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.	Triticum aestivum	50	Υ	NI					
2.	Matricaria recutita	20	Υ	NI	* Indicators of hydric soil and wetland hydrology must be				
3.	Ambrosia artemisiifolia	15	N	FACU	present, unless disturbed or problematic.				
4.	Medicago lupulina	10	N	FACU	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.					Gupmig, Gin all				
11.									
12.					Herb - All herbaceous (non-woody) plants, regardless of size.				
13.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
15.	Total Cover	05			vvoouy vinies - 7 iii need, vinies, regulalees et neight				
	Total Cover =	95	_						
Massacha Massach	(Districtions (Districtions (O) (to reading)								
vvoody vine St	tratum (Plot size: 30 ft. radius)								
1.									
2.					Ukudaankutia Vanatatian Buasanto N				
3.					Hydrophytic Vegetation Present?N				
5.									
4.	Tatal Ossar								
Danasadas	Total Cover =								
Remarks:	The upland sample area is dominated by cul-	tivated wint	er wheat	and Germ	ian chamomile.				
Additional Remarks:									