## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	10/08/14			
Applicant:		Enbridge			0 1 1	(1.41 D.4				County: State:	Pennington			
Investigators: NTT/BEH				Subregion (MLRA or LRR): MLRA 56							MN			
Soil Unit:											4504004 b4			
Landform:	Talf		Latituda, 17				2004	Datum		Sample Point	u-152n43w24-b1			
Slope (%):	0 - 2%	anditions on the cit	Latitude: 47.			-96.112		Datum: ☑ Yes		Castiani				
		enditions on the site			al ! (If no, ex				□ No	Section:				
Are Vegetati		□, or Hydrology	•	•		Are	e normal circur	-	esent?	Township:	Dim			
Are Vegetati SUMMARY		□, or Hydrology	Haturally p	roblematic?			✓ Yes	□ No		Range:	Dir:			
			No					Hydric Sci	Is Present?	. No				
Hydrophytic Vegetation Present? Wetland Hydrology Present?									nt Within A W	etland? <b>No</b>				
			No No	lled wheat fiel	d: no vege	tation is	present beside			IL VVILIIII A VV	elianu: NO			
Remarks: The upland point is located in a recently tilled wheat field; no vegetation is present besides winter wheat.														
HYDROLOG	V													
					_		_							
_		icators (Check all	that apply;	Minimum of o	ne primary	or two s	econdary requi	ired):						
Primary		Motor		_	D44 Call	Cmuch			Secondary:		Coil Crooks			
	A1 - Surface A2 - High Wa				B11 - Salt B13 - Aqua		1			B6 - Surface S	Soll Cracks Vegetated Concave Su	ırface		
	A3 - Saturation				C1 - Hydro					B10 - Drainag		iriacc		
	B1 - Water M				C2 - Dry S						Rhizospheres on Living	Roots (tilled)		
	B2 - Sedimer	•					spheres on Living	Roots (not till	le 🗆	C8 - Crayfish				
	B3 - Drift Dep						educed Iron				n Visible on Aerial Imag	gery		
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin I Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu				
		on Visible on Aerial Im	nagery		Other (Exp	nairi)					aved Hummocks (LRR	F)		
		tained Leaves							_	2	a	. ,		
Field Obser	vations:													
Surface Wat	er Present?	Yes □	Dep	th:	(in.)			Watles all	l l	D	N.I.			
Water Table	Present?	Yes □	Dep	th:	– (in.)			vvetiana r	lydrology	Present?	N			
Saturation P	resent?	Yes □	Den											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Describe Rec	orded Data (s	stream gauge moni	<u> </u>		<u> </u>	nections)	if available:							
	·		itoring well, a		<u> </u>	pections),	, if available:							
Describe Rec Remarks:	·	stream gauge, moni	itoring well, a		<u> </u>	pections),	, if available:							
Remarks:	·		itoring well, a		<u> </u>	pections),	, if available:							
Remarks:	No wetland	hydrology indicato	itoring well, a	erial photos, p	revious insp			ndicators.)						
Remarks:  SOILS Profile Descr	No wetland		itoring well, a present.	erial photos, p	revious insp	onfirm th	e absence of i							
Remarks:  SOILS Profile Descr	No wetland	hydrology indicated ibe to the depth neetion, RM=Reduced Marketing indicated in the depth of the	itoring well, a present.	erial photos, p	revious insp	onfirm th	e absence of in							
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Remarks:  SOILS Profile Descr	No wetland	hydrology indicated ibe to the depth neetion, RM=Reduced Marketing indicated in the depth of the	itoring well, a present.	erial photos, p ument the ind red/Coated Sand	revious insp	onfirm th	e absence of in		Texture		Remarks			
Remarks:  SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicate the depth neetion, RM=Reduced Matrix Color (Moist)	itoring well, a present.  eeded to docatrix, CS=Cove	erial photos, p  ument the independent content	revious insp icator or co Grains; Loca	onfirm thation: PL=P	ne absence of ine Pore Lining, M=Mat	rix)	Texture SCL		Remarks			
Remarks:  SOILS Profile Descr (Type: C=Conce	No wetland	hydrology indicate the depth neetion, RM=Reduced Matrix Color (Moist)  2/1	itoring well, a present.  eeded to docatrix, CS=Cove	ument the indred/Coated Sand	icator or congrains; Loca	onfirm thation: PL=P	ne absence of ine Pore Lining, M=Mat	rix)		abundant gravel	Remarks			
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Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-8 8-19	No wetland iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	hydrology indicate the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 4/3	eeded to docatrix, CS=Cove	erial photos, p  ument the incored/Coated Sand  Color  Hue_10YF	icator or configurations; Locations; Locatio	onfirm thation: PL=P	e absence of in Pore Lining, M=Mat es Type	Location	SCL	abundant gravel	Remarks			
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Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-8 8-19	No wetland iption (Description, Depoint Intration,	hydrology indicate the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 4/3  Indicators (ch	eeded to docatrix, CS=Cove	erial photos, p  ument the incored/Coated Sand  Color  Hue_10YF	icator or configurations; Locator or configurati	onfirm thation: PL=P	e absence of income Lining, M=Materials  es  Type  C	Location	SCL SL Indicators 1 A9 - 1 cm M	for Problemati fuck (LRR I, J)				
Remarks:  SOILS Profile Descr (Type: C=Conce	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicate  ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  4/3  Indicators (chappedonestic	eeded to docatrix, CS=Cove	ument the indicators are  S5 - Sandy F S6 - Stripped F1 - Loamy	icator or configurations; Locator or configurati	monfirm the stion: PL=P  Mottl %  15  nt):	e absence of income Lining, M=Materials  es  Type  C	Location	Indicators A9 - 1 cm N A16 - Coast S7 - Dark S	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G)	<b>c Soils<sup>1</sup></b> (LRR F, G, H)			
Remarks:  SOILS Profile Descr (Type: C=Conce)  Depth (In.) 0-8 8-19  NRCS Hydr	iption (Description, Depoint Intration, Depoint Int	hydrology indicate  ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 4/3  Indicators (chappedonestic in Sulfide	eeded to docatrix, CS=Cove	ument the indired/Coated Sand  Color  Color  Hue_10YF  S5 - Sandy F S6 - Stripped F1 - Loamy F2 - Loamy	icator or congrains; Local  (Moist)  5/8  not preserved Matrix Mucky Miner	monfirm the stion: PL=P  Mottl %  15  nt):	e absence of income Lining, M=Materials  es  Type  C	Location	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problemati fuck (LRR I, J) t Prairie Redox urface (LRR G)	<b>c Soils</b> <sup>1</sup> (LRR F, G, H)	3)		
Remarks:  SOILS Profile Descr (Type: C=Conce	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	hydrology indicate  ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  4/3  Indicators (chapped on Strice on Sulfide o	itoring well, a present.  eeded to doc atrix, CS=Cove  // 10 89	ument the incored/Coated Sand Color Hue_10YF  S5 - Sandy F S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete	icator or congrains; Local  (Moist)  7 5/8  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	monfirm the lation: PL=P  Mottl %  15  at ix	e absence of income Lining, M=Materials  es  Type  C	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduce	for Problemati fluck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic	<b>c Soils<sup>1</sup></b> (LRR F, G, H)	3)		
Remarks:  SOILS Profile Descr (Type: C=Conce	iption (Descrintration, D=Deplementation, D=Depl	hydrology indicate  ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  4/3  Indicators (characters)  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	itoring well, a present.  eeded to doc atrix, CS=Cove	ument the indired/Coated Sand  Color  Hue_10YF  Hue_10YF  S5 - Sandy F  S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox F	icator or congrains; Local  (Moist)  8 5/8  not preserved Matrix Mucky Miner Gleyed Matrix Dark Surface	monfirm the stion: PL=P  Mottl %  15  at):	e absence of income Lining, M=Materials  es  Type  C	Location	Indicators A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red F	for Problemati fuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73	3)		
Remarks:  SOILS Profile Descr (Type: C=Conce	iption (Description, D=Deplementation, D=Depleme	hydrology indicate  ibe to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1 4/3  Indicators (characters)  ipedon stic in Sulfide I Layers (LRR F) ck (LRR FGH) ied Below Dark Surface	itoring well, a present.  eeded to doc atrix, CS=Cove	ument the indired/Coated Sand  Color  Color  Hue_10YF  S6 - Stripped S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I	icator or congrains; Local  (Moist)  Solve 5/8  The solve of the solve	monfirm the stion: PL=P  Mottl %  15  ation: The stion is the stick in	e absence of income Lining, M=Materials  es  Type  C	Location	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F18 - Reduct TF2 - Red FTF12 - Very	for Problemati fuck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark	c Soils <sup>1</sup> (LRR F, G, H)  ons (LRR H, outside MLRA 72, 73	3)		
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Remarks:  SOILS Profile Descr (Type: C=Conce	iption (Descrintration, D=Deplementation, D=Deplementation)  Hue_10YR  Hue_10YR  Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplementation A12 - Thick Ex A12 - Thick Ex A12 - Thick Ex A12 - Thick Ex A13 - Sandy M A14 - Sandy M A15 - Sandy M A16 - Sandy G A17 - Sandy G A18 - Sandy G A19 - Type:	hydrology indicate  tibe to the depth neetion, RM=Reduced Mineral  Matrix  Color (Moist)  2/1  4/3  Indicators (characters)  ipedon  stic  n Sulfide Layers (LRR F)  ck (LRR FGH)  ed Below Dark Surface  park Surface  ucky Mineral  Mucky Peat or Peat (LR  leyed Matrix	eeded to docatrix, CS=Cove	ument the incored/Coated Sand Color Color Hue_10YF S6 - Stripped F1 - Loamy F2 - Loamy F3 - Deplete F6 - Redox I F7 - Deplete F8 - Redox I F16 - High F	icator or congrains; Local (Moist)  R 5/8  not preserved Matrix Mucky Miner Gleyed Matrix Dark Surfaced Matrix Dark Surfaced Depressions Plains Depressions	Mottl % 15 nt):	es Type C  -RA 72, 73 of LR	Location M	Indicators A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemati fuck (LRR I, J) t Prairie Redox urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73			

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-152n43w24-b1	
					·	
<b>VEGETATIO</b>		are non-native	species.)			
Tree Stratum (	Plot size: 30 ft. radius)					
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet	
1.		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.	<u> </u>				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. $0 \times 2 = 0$	
					$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Stratum (Plot size: 15 ft. radius)					
1.					UPL spp. $30$ $x 5 = 150$	
2.						
3.					Total 30 (A) 150 (B)	
4.						
5.					Prevalence Index = B/A = 5.000	
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	30	Υ	NI		
2.					* 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.					Woody Vines - All woody vines, regardless of height.	
	Total Cover	= 30				
Woody Vine St	ratum (Plot size: 30 ft. radius)					
1.						
2.						
3.		_			Hydrophytic Vegetation Present? N	
5.						
4.	<u>'</u>					
	Total Cover	= 0				
Remarks:	The vegetation is dominated by winter whe					
Additional R	Pomarks:					
Additional R	ACIIIAI NO.					