## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/27/14	
Applicant:		Enbridge			_					County:	Pennington	
Investigators		MRK/OTG			_Subregio	•	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	159A			<del>_</del> .			I Classification:	·		1		
Landform:	Talf		40.0		ocal Relief:		0404007			Sample Point:	u-152n43w4-f1	
Slope (%):	0 - 2%		Latitude: 48.0				03131667	Datum:				
	<u>,                                     </u>	nditions on the site				1	•	☑ Yes	□ No	Section:		
Are Vegetation		□, or Hydrology	•	y disturbed?		Are	e normal circum	•	esent?	Township:	Dim	
Are Vegetation		□, or Hydrology	□aturally pr	obiematic?			Yes	□ No		Range:	Dir:	
Hydrophytic '			No					Hydric Soi	ls Present?	No		
•	drology Prese		No No		_					nt Within A W	etland? <b>No</b>	
Remarks:		ple point is locate		d dominated	hy orchard	arass		13 THIS CAL	ripiirig r oir	it vvitiiii /\ vv	etiana: 110	
rtomants.	Opiana san		a iii a naynor	a dominated	by oronara	grass.						
HYDROLOG	Υ											
		inatora (Chaak all	l that apply: N	linimum of o	no primary	or two o	ooondory roqui	rod\.				
Primary		icators (Check all	i that apply; iv	iinimum oi o	ne primary	or two s	econdary requi	rea):	Secondary:			
	<u>·</u>	Water			B11 - Salt	Crust				B6 - Surface S	Soil Cracks	
	A2 - High Wa			_	B13 - Aqua		l		_		Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry So			Posts (not till			Rhizospheres on Living Roots (	(tilled)
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	Roots (not till	, –	C8 - Crayfish E	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin N				_	D2 - Geomorp		
	B5 - Iron Dep	osits			Other (Exp	lain)				D5 - FAC-Neu	tral Test	
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Obser	votions											
		Van 👨	Dont	<b>L</b> .	(in )							
Surface Wat Water Table		Yes	Dept		_ (in.)			Wetland F	lydrology	Present?	N	
		Yes	Dept		_ (in.)						<del></del>	
			<u> </u>		(in.)							
Describe Rec	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	ections),	, if available:					
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Describe Rec Remarks:	orded Data (s	stream gauge, moni	itoring well, a	erial photos, p	revious insp	ections),	, if available:					
Describe Rec Remarks:	orded Data (s No primary	stream gauge, moni or secondary hydr	itoring well, ac	erial photos, p ators observ	revious insp ed.			ndicators )				
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Describe Recordance Remarks:  SOILS Profile Descripation (Type: C=Concerdance)  Depth (In.) 0-20  NRCS Hydr	iption (Description, Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleted A12 - Thick D S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, activities and control of the control	color Color Signature and Color Colo	revious insped.  licator or congrains; Local  (Moist)  not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	mottl  Mottl  %  t):	e absence of incore Lining, M=Matr	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red PTF12 - Very Other (Explain Indicators of In	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red 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)	resent,
Describe Recordance Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-20  NRCS Hydr	iption (Description, Depoint attain, Depoint attain, Depoint attains, Depo	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, activities and control of the control	color Color Signature and Color Colo	revious insped.  licator or congrains; Local  (Moist)  not present Redox d Matrix Mucky Minera Gleyed Matrix Dark Surface d Dark Surface Depressions	mottl  Mottl  %  t):	e absence of incore Lining, M=Matr	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red PTF12 - Very Other (Explain Indicators of In	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	resent,
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Describe Recordance Remarks:  SOILS Profile Descrit (Type: C=Concerd)  Depth (In.) 0-20  NRCS Hydr	iption (Description, Depleted 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	be to the depth neetion, RM=Reduced Matrix  Color (Moist)  2/1  Indicators (chain ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LR) cky Peat or Peat (LR)	itoring well, activities and control of the control	color	revious inspect.  licator or configurations and present and matrix  Mucky Mineral Matrix  Mucky Mineral Matrix  Dark Surface and Depressions are an analysis and Dark Surface and Dark Surface and Dark Surface and Depressions are an analysis and Dark Surface and Dark Surface and Depressions are an analysis and Dark Surface and Dark Surface and Depressions are an analysis and Dark Surface and Depressions are an analysis and Depressions and Depressions are an analysis and Dark Surface and Depressions are an analysis and Dark Surface and Depressions are an analysis and Depressions and Depressions are an analysis and Depressions are an a	Mottl  Mottl  %  t):  al  x  ace  ssions (ML	e absence of infore Lining, M=Matroses  Type  Array of LRF  Hydric So	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red F1F12 - Very Other (Explain Indicators of Funless disturbed)	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark Stain in Remarks)	C Soils <sup>1</sup> (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73)  Surface	resent,

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site	: L3R				Sample Point: u-152n43w4-f1
VEGETATIO	· · ·	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% 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.					(42)
8.					Prevalence Index Worksheet
9.					4
10.					Total % Cover of:  Multiply by:
10.					$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover =	0	FACVV Spp. $\frac{0}{\sqrt{2}}$ $\times$ $2 = \frac{0}{\sqrt{2}}$		
0 11 /01 1	0 (5)				OBL spp. 0
	Stratum (Plot size: 15 ft. radius)				FACU spp. 95 X 4 = 380
1.					$UPL spp. \underline{\qquad 0 \qquad \qquad X \ 5 = \underline{\qquad 0 \qquad \qquad }$
2.					
3.					Total 105 (A) 410 (B)
4.					
5.					Prevalence Index = B/A =
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
10.	 Total Cover =	0			Prevalence Index is ≤ 3.0 *
	10101 00001 =				
11. 1. 0((	(District of Editors Proc)				Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		\ <u>\</u>	EAGLI	Problem Hydrophytic Vegetation (Explain) *
1.	Dactylis glomerata	80	Y	FACU	
2.	Trifolium hybridum	15	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Sonchus arvensis	10	N	FAC	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.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					1.0.2
14.					Mondy Vince All woody vince regardless of beight
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	105	_		
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
···	Total Cover =	0			
Remarks:	Upland sample point is dominated by orchar				
i Komans.	Splana sample point is dominated by ordinal	a grass.			
Additional I	Remarks:				