WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/29/14			
Applicant:		Enbridge								County:	Pennington			
Investigators	S:	BJC/RAJ			Subregio	•	A or LRR):	MLRA 56		State:	MN			
Soil Unit:	155A						I Classification:							
Landform:	Talf				_ocal Relief					Sample Point:	u-153n44w11-c1			
Slope (%):	0 - 2%		atitude: 48.		Longitude			Datum:						
Are climatic/l		nditions on the site t						Yes	□ No	Section:				
Are Vegetation		□, or Hydrology □	•	•	?	Are	e normal circum	nstances pre	esent?	Township:				
Are Vegetation			⊐aturally p	roblematic?			✓ Yes	□ No		Range:	Dir:			
SUMMARY C														
Hydrophytic '	Vegetation P	resent?	No					Hydric Soil	s Present?	No				
Wetland Hyd	drology Prese	nt?	No					Is This Sar	npling Poin	t Within A We	etland? No			
Remarks: The upland sample point is located in a mowed area located between a large wetland complex and a horse pasture. The area is dominated by orchard grass														
and smooth brome. The vegetation is mowed, but still identifiable.														
HYDROLOG	Υ													
		icators (Chack all th	not apply:	dinimum of	ono primary	or two c	ocondary roquir	.od):						
_		icators (Check all th	iat apply,	viinimum oi o	one primary	or two s	econdary requir	ea):	Secondary					
<u>Primary</u> : □	<u>.</u>	Nator		г	□ B11 - Salt	Crust			Secondary:	B6 - Surface S	oil Cracks			
	A2 - High Wat				□ B13 - Aqua		l				Vegetated Concave Surface			
	A3 - Saturatio				:					B10 - Drainage	-			
	B1 - Water Ma	arks									Rhizospheres on Living Roots (tilled)			
	B2 - Sedimen	•					spheres on Living	Roots (not tille	• 🗆	C8 - Crayfish E				
	B3 - Drift Dep						duced Iron				Nisible on Aerial Imagery			
	B4 - Algal Ma			[_		ace			D2 - Geomorpl				
	B5 - Iron Depo		70 m /		☐ Other (Exp	olain)				D5 - FAC-Neut				
	B9 - Water-St	n Visible on Aerial Imag	gery							D7 - Frost-nea	ved Hummocks (LRR F)			
	D9 - Water-St	allieu Leaves												
Field Obcer	votiona													
Field Observ			_		<i>(</i> ;)									
Surface Wat		Yes □	Dep		(in.)			Wetland H	lydrology F	Present?	N			
Water Table		Yes	Dep		(in.)				.,		<u> </u>			
Saturation P	resent?	Yes	Dep	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, monito	ring well, a	erial photos,	previous inst	pections),	if available:							
	•			<u> </u>	previous insp	oections),	if available:							
Describe Rec	•	stream gauge, monitors of wetland hydrologic		<u> </u>	previous insp	pections),	if available:							
Remarks:	•			<u> </u>	previous insp	pections),	if available:							
Remarks:	No indicator	rs of wetland hydrolo	ogy were o	bserved.				dicators.)						
Remarks: SOILS Profile Descri	No indicator		ogy were o	bserved.	dicator or c	onfirm th	e absence of in							
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Remarks: SOILS Profile Descri	No indicator	rs of wetland hydrolo	ogy were o	bserved.	dicator or c	onfirm th	e absence of in ore Lining, M=Matri							
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth need etion, RM=Reduced Matrix	ded to doc	bserved. ument the in	dicator or cold Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matri	ix)	Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth need etion, RM=Reduced Matrix Color (Moist)	ded to doc	ument the in red/Coated San	dicator or c	onfirm th	e absence of in ore Lining, M=Matri		Texture		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10	No indicator iption (Descri	be to the depth need etion, RM=Reduced Matrix Color (Moist) 3/1	ded to doo	ument the in red/Coated San	dicator or cold Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matri	ix)	FSL		Remarks			
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth need etion, RM=Reduced Matrix Color (Moist) 3/1	ded to doc	ument the in red/Coated San	dicator or cold Grains; Loca	onfirm thation: PL=P	e absence of in ore Lining, M=Matri	ix)			Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18	No indicator iption (Descri	be to the depth need etion, RM=Reduced Matrix Color (Moist) 3/1 5/4	ded to doc ix, CS=Cove	bserved. ument the in red/Coated San	dicator or condicators; Local	onfirm th	e absence of in ore Lining, M=Matri	ix)	FSL		Remarks			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	No indicator iption (Descrintration, D=Depleted Price Soil Field	be to the depth need etion, RM=Reduced Matrix Color (Moist) 3/1 5/4	ded to doc ix, CS=Cove	bserved. ument the in red/Coated San Color 0	dicator or condidicator or condidicator or condidicator or condidicator or condidicator or condidicator (Moist)	onfirm th	e absence of infore Lining, M=Matri	Location	FSL FS	or Problemation				
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	No indicator iption (Descrintration, D=Depleted Price Soil Field	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 3/1 5/4 Indicators (checking)	ded to doc ix, CS=Cove	bserved. ument the in red/Coated San Color Color Color Solution Soluti	dicator or condicator or condicator or condicator or condicator or condicator or condicator (Moist) r (Moist) e not preser	onfirm thation: PL=P Mottle %	e absence of infore Lining, M=Matri	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast		: Soils ¹			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 3/1 5/4 Indicators (checking)	ded to doc ix, CS=Cove	bserved. ument the in red/Coated San Color Color Solution Soluti	dicator or condicator or condicator or condicator or condicator or condicator or condicator. (Moist) e not preserved Redox ed Matrix	monfirm the Mottle %	e absence of infore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-10 10-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mue	be to the depth needetion, RM=Reduced Matrix Matrix Color (Moist) 3/1 5/4 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH)	ded to doo ix, CS=Cove	bserved. ument the in red/Coated San Color Color Solution Soluti	dicator or condicator or condicator or condicator or condicator or condicator. (Moist) Proposed Matrix (Mucky Mineral Mucky Mineral Matrix (Dark Surface)	monfirm the lition: PL=P Mottle % at): at ix	e absence of infore Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	uck (LRR I, J) Prairie Redox (urface (LRR G) Pains Depression ed Vertic arent Material	ESoils ¹ LRR 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-153n44w11-c1				
VEGETATIO	N (Species identified in all uppercase	are 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: 2 (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	OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$						
					FAC spp. $\underline{\hspace{1cm}}$ $X 3 = \underline{\hspace{1cm}}$ 30				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp65				
1.					UPL spp. $_{}$ 25				
2.									
3.					Total 100 (A) 415 (B)				
4.									
5.					Prevalence Index = B/A = 4.150				
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.	Dactylis glomerata	40	Υ	FACU					
2.	Bromus inermis	25	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be				
3.	Solidago altissima	10	 N	FACU	present, unless disturbed or problematic.				
4.	Solidago gigantea	10	N	FAC	Definitions of Vegetation Strata:				
5.	Lotus corniculatus	10	N	FACU					
6	Trifolium repens	5	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Throng the second		- ' '	17.00	height (DBH), regardless of height.				
8.									
9.	<u> </u>				Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.				
10.					Capinig/Cirius				
11.									
12.	<u> </u>	_			Herb - All herbaceous (non-woody) plants, regardless of size.				
13.	<u></u>				TIEID - 7 III Horodocad (Hori Woody) plante, regardices of cize.				
14.	<u> </u>	_			Woody Vines - All woody vines, regardless of height.				
15.	Tatal Oasser	100			Woody Vines - All woody vines, regardless of fleight.				
	Total Cover	= 100	_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present?N				
5.									
4.									
	Total Cover								
Remarks:	The upland sample point is dominated by	orchard grass	s and smo	oth brome	9.				
Additional Remarks:									