WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/12/14		
Applicant:		Enbridge RAJ/BEH/MRK								County:	Pennington		
Investigators		Subregion (MLRA or LRR): MLRA 56						State:	MN				
Soil Unit:	166A			_			Classification:						
Landform:	Dip				cal Relief:					Sample Point:	w-154n45w25-g1		
Slope (%):	0 - 2%	1142 41 44	Latitude: 48.1		Longitude:			<u>Datum:</u>		4			
		nditions on the site			If? (If no, exp				□ No	Section:			
Are Vegetation		□, or Hydrology	•			Are	normal circum	-	esent?	Township:			
Are Vegetation		, ,	□aturally pr	oblematic?				□ No		Range:	Dir:		
SUMMARY C									D 10				
Hydrophytic Vegetation Present? Wetland Hydrology Present?				Yes Hydric Soils Presen							(I IO V		
		Yes	J										
Remarks: A wet meadow in a hayfield dominated by reed canary grass. The vegetation is disturbed from recent mowing but most species are still identifiable. All parameters of wetland conditions are met.													
	•	of wetland conditi	ions are met.										
HYDROLOG	Y												
Wetland Hy	drology Indi	cators (Check all	I that apply; M	linimum of on	e primary	or two se	econdary requir	red):					
Primary:		·						,	Secondary:				
□ A1 - Surface Water					B11 - Salt (B6 - Surface S			
	S S S S S S S S S S S S S S S S S S S				B13 - Aqua						Vegetated Concave Surface		
	A3 - Saturatio B1 - Water Ma				C1 - Hydrog			B10 - Drainage Patterns					
	B2 - Sediment				C2 - Dry Se		spheres on Living	Roots (not tille		C8 - Crayfish E	Rhizospheres on Living Roots (tilled)		
	B3 - Drift Dep	•			C4 - Presei			110013 (1101 11111		-	n Visible on Aerial Imagery		
	B4 - Algal Mat			_	C7 - Thin M				✓	D2 - Geomorp	5 ,		
	B5 - Iron Depo	osits			Other (Expl	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 Observ													
Surface Wate	er Present?	Yes □	Dept	n:	(in.)			Wetland H	lydrology	Present?	Υ		
Water Table	Present?	Yes □	Dept	า:	(in.)			Wetland I	iyai ology	1 10301111	<u> </u>		
Saturation Pr	esent?	Yes □	Dept	n:	(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:													
Describe Reco	orded Data (s	tream gauge, moni	itoring well, ae	rial photos, pre		ections),	if available:						
	· · ·					ections),	if available:						
Describe Reco	· · ·	tream gauge, moni f wetland hydrolog				ections),	if available:						
	· · ·					ections),	if available:						
Remarks:	Indicators o		gy are presen	i.	evious insp	·		dicators.)					
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog	gy are present	t. ment the indi	evious insp	onfirm the	e absence of in						
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog	gy are present	t. ment the indi	evious insp	onfirm the	e absence of in						
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog	gy are present	t. ment the indi	evious insp	onfirm the	e absence of in ore Lining, M=Matri						
Remarks: SOILS Profile Descri	Indicators o	f wetland hydrolog be to the depth ne etion, RM=Reduced Ma	gy are present	ment the indicated Sand C	evious insponential cator or co	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	Indicators o	be to the depth neetion, RM=Reduced Matrix Color (Moist)	eeded to docu	ment the indicated Sand Control Color (I	evious insponential cator or co	onfirm the ion: PL=Pe	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	ption (Descrintration, D=Deple	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	gy are presented to docu atrix, CS=Covere	ed/Coated Sand (evious insponential cator or co	onfirm the ion: PL=Pe	e absence of in ore Lining, M=Matri	(x)		fine sandy	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13	ption (Descri	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1	eeded to docu atrix, CS=Covere	color (I	cator or co Grains; Locat Moist)	onfirm the ion: PL=Pe	e absence of in ore Lining, M=Matri es Type C	Location M	CL SCL	1	Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20	ption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu eatrix, CS=Covered % 100 60	ed/Coated Sand (cator or co Grains; Locat	onfirm the ion: PL=Po Mottle	e absence of in ore Lining, M=Matri es Type	Location	CL SCL SCL	fine sandy			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20	ption (Descrintration, D=Depleted Hue_10YR Hue_10YR	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docu eatrix, CS=Covered % 100 60	color (I	cator or co Grains; Locat Moist)	Mottle	e absence of in ore Lining, M=Matri es Type C	Location M	CL SCL SCL	fine sandy			
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 13-20 NRCS Hydr	ption (Descriptration, D=Depleted Hue_10YR Hue_10YR Hue_10YR ic Soil Field	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1	eeded to docuatrix, CS=Covered 60	Color (I) Hue_10YR Hue_10YR dicators are r	cator or co Grains; Locat Moist) 4/4 3/1	Mottle %	e absence of inore Lining, M=Matri	Location M M	CL SCL SCL COS	fine sandy in narrow, irregula	ar bands		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 13-20 NRCS Hydr	ption (Descrintration, D=Depletentration, D=Deplete	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain in Sulfide	eeded to docuatrix, CS=Covered	Color (I) Hue_10YR Hue_10YR Hue_10YR Color (I) Hue_10YR Hue_10YR Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy G	cator or co Grains; Locat Moist) 4/4 3/1 ot present	Mottle % 5 30	e absence of inore Lining, M=Matri	Location M M ————————————————————————————————	CL SCL SCL COS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	fine sandy in narrow, irregula for Problematic fluck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	ar bands		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-13 13-20 13-20 NRCS Hydr	hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth neetion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (chain in Sulfide Layers (LRR F)	gy are presented to document t	Color (I) Hue_10YR Hue_10YR Hue_10YR Color (I) Hue_10YR Hue_10YR Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy G	cator or co Grains; Locat Moist) 4/4 3/1 oot presentedox Matrix lucky Mineraleyed Matrix Matrix	Mottle % 5 30	e absence of inore Lining, M=Matri	Location M M ————————————————————————————————	CL SCL SCL COS Indicators of A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	fine sandy in narrow, irregula for Problematic fluck (LRR I, J) t Prairie Redox (Surface (LRR G) Plains Depression	Soils ¹		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	: L3R				Sample Point: w-154n45w25-g1				
VEGETATIO		non-native	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: 100.0% (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp 0				
	Total Cover = _	0	_		FACW spp. $80 X 2 = 160$				
					FAC spp. $0 x 3 = 0$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{\qquad}$ $X = \underline{\qquad}$ $\underline{\qquad}$				
1.					OBL spp. 0				
2.									
3.					Total 80 (A) 160 (B)				
4.									
5.					Prevalence Index = B/A = 2.000				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
	Total Cover = _	0			X Prevalence Index is ≤ 3.0 *				
					Morphological Adaptations (Explain) *				
Herb Stratum ((Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Phalaris arundinacea	70	Y	FACW					
2.	Mentha arvensis	5	N	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Symphyotrichum lanceolatum	5	N	FACW	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.									
14.									
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover =	80							
	10tal 00vel =_	- 00	_						
Woody Vine St	tratum (Plot size: 30 ft. radius)								
1.	tratain (1 lot 5126. 50 it. laulus)								
2.									
3.					Hydrophytic Vegetation Present?				
5.					inyarophytic vegetation i resent:				
4.									
₩.	Total Cover =	0							
Remarks:			v field Li	udrophytic	vegetation is present. There is a 1-inch layer of moss at the surface				
nemarks:	A wet meadow dominated by reed canary gra	iss iii a na	ıy neid. Hy	yurupriytiC	vegetation is present. There is a 1-inch layer of moss at the surface.				
Additional Remarks:									