## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:		L3R Enbridge									Date:09/11/14County:Pennington			
Investigators		MRK/BEH/RAJ				Subregio	State: MN							
Soil Unit:	I24A NWI Classification:										Comple Deinte II 154045W25 of			
Landform: Slope (%):	Talf         Local Relief: LL           0 - 2%         Latitude: 48.13735983         Longitude: -96.3704415000         Date								Datum:		Sample Point: u-154n45w25-a1			
,		nditions on the sit				-			☑ Yes	□ No	_ Section:			
Are Vegetation		☑, or Hydrology						e normal circum			Township:			
Are Vegetatio	•	□, or Hydrology	0					☑ Yes	□ No		Range: Dir:			
SUMMARY C														
Hydrophytic	-		No			-				ls Present?				
Wetland Hyd			No.	-	ted oot fie	ld			Is This Sar	mpling Poin	nt Within A Wetland? <b>No</b>			
Remarks: The upland sample point is located in a cultivated oat field.														
HYDROLOG	Y													
Wetland Hy	drology Indi	i <b>cators</b> (Check al	I that apply	/; Minin	num of on	e primary	or two se	econdary requir	ed):					
Primary:					_		<b>o</b> <i>i</i>			Secondary:				
	<ul> <li>□ A1 - Surface Water</li> <li>□ A2 - High Water Table</li> <li>□ B13 - Aquatic Fauna</li> </ul>										B6 - Surface Soil Cracks B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturatio					C1 - Hydro					B10 - Drainage Patterns			
	B1 - Water Ma					C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots (tilled)			
	B2 - Sedimen B3 - Drift Dep	•				C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till	є П	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery			
	B4 - Algal Mat					C7 - Thin M					D2 - Geomorphic Position			
	B5 - Iron Depo					Other (Exp	lain)				D5 - FAC-Neutral Test			
	B7 - Inundatio B9 - Water-St	n Visible on Aerial In	nagery								D7 - Frost-Heaved Hummocks (LRR F)			
Field Observ	vations:													
Surface Wate	er Present?	Yes 🛛	De	epth:		(in.)			Wotland H	lydrology	Present? N			
Water Table	Present?	Yes 🗆	De	epth:		(in.)				iyarology i				
Saturation Pr	resent?	Yes 🛛	De	epth:		(in.)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:														
Remarks: No hydrological indicators were observed.														
SOILS	ntion (Decori	ha ta tha danth n	and ad to do		nt the indi	aatar ar aa	opfirms the	a abaanaa of in	diactora					
		be to the depth ne etion, RM=Reduced N												
										1				
		Matrix		<u> </u>			Mottle							
Depth (In.)		Color (Moist)		%	Color (I	Moist)	%	Туре	Location	Texture	Remarks			
0-15	Hue_10YR	2/1		100						FSL				
<u>15-21</u> 15-21	Hue_10YR	3/2 2/1		90 10						LFS FSL				
15-21	Hue_10YR	2/1		10						FOL				
NRCS Hydr	ic Soil Field	Indicators (cl	heck here if	if indica	ators are r	not presen	t):							
				_							for Problematic Soils <sup>1</sup>			
	A1- Histosol	in a data			5 - Sandy R						Auck (LRR I, J)			
										t Prairie Redox (LRR F, G, H) Surface (LRR G)				
	A3 - Black Histic D F1 - Loamy Mucky Mineral S7 - Dark Surface (LRR G) A4 - Hydrogen Sulfide D F2 - Loamy Gleyed Matrix D F16 - High Plains Depressions (LRR H, outside MLRA 72, 73)													
	A5 - Stratified	- Stratified Layers (LRR F)												
	□ S1 - Sandy Mucky Mineral □ F16 - High Plains Depressions (MLRA 72, 73 of LRR H)													
S2 - 2.5 cm Mucky Peat or Peat (LRR G, H) S3 - 5 cm Mucky Peat or Peat (LRR G, H)														
<ul> <li>S3 - 5 cm Mucky Peat or Peat (LRR F)</li> <li>S4 - Sandy Gleyed Matrix</li> <li><sup>1</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic.</li> </ul>														
	S4 - Sandy Gl	eyed Matrix								Hydria Sail Bracant?				
		eyed Matrix			Denth <sup>.</sup>			Ludria Sal	il Procont?	N				
Restrictive Layer	туре:	eyed Matrix er of dark fine sar			Depth:				il Present?		_			

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Project/Site	: L3R				Sample Point: u-154n45w25-a1			
-								
VEGETATIO	N (Species identified in all uppercase	are non-native	e species.)					
Tree Stratum	(Plot size: 30 ft. radius)							
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet			
1.		_						
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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: <u>Multiply by:</u>			
10.					OBL spp. $0   X   1 = 0$			
		= 0			FACW spp. 0 $x 2 = 0$			
					FAC spp. 0 $x 3 = 0$			
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				OBL spp.       0       x       1 =       0         FACW spp.       0       x       2 =       0         FAC spp.       0       x       3 =       0         FACU spp.       70       x       4 =       280			
1.					UPL spp. $25$ X 5 = $125$			
2.		_						
3.					Total <u>95</u> (A) <u>405</u> (B)			
4.								
5.		_			Prevalence Index = B/A = <b>4.263</b>			
6.					$\frac{1}{1000} = \frac{1}{1000} = 1$			
7.								
8.	1				Hydrophytic Vegetation Indicators:			
9.								
<u> </u>					Rapid Test for Hydrophytic Vegetation			
10.	 Total Cover	0			Dominance Test is > 50%			
	Total Cover	=0			Prevalence Index is $\leq 3.0$ *			
					Morphological Adaptations (Explain) *			
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Avena sativa	70	Y	FACU				
2.	Medicago sativa	20	Y	NI	* Indicators of hydric soil and wetland hydrology must be			
3.	Pisum sativum	5	N	NI	present, unless disturbed or problematic.			
4.					Definitions of Vegetation Strata:			
5.								
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.								
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.			
10.								
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
13.					1			
14.					1			
15.					Woody Vines - All woody vines, regardless of height.			
	Total Cover	= 95						
Woody Vine St	tratum (Plot size: 30 ft. radius)							
1		_						
2.								
3.					Hydrophytic Vegetation Present? N			
5.	1							
<u> </u>	1							
4.	Total Cover	= 0						
Pomorke			te					
Remarks: The upland sample point is dominated by cultivated oats.								
Additional Remarks:								