WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R											Date:	09/30/14	
Applicant: Enbridge												Pennington	
Investigators: MRK/OTG				Subregion (MLRA or LRR): MLRA 56								MN	
Soil Unit:						NWI Classification:							
Landform:	Talf					cal Relief:					Sample Point:	u-152n43w15-d1	
Slope (%):	0 - 2%		Latitude: 47					8908333	Datum:				
Are climatic/h	hydrologic co	nditions on the site	typical for	r this	s time of yea	ar? (If no, ex	plain in rema	arks)		□ No	Section:		
Are Vegetation	on 🛭 Soil	☑, or Hydrology	⊏significar	ntly (disturbed?		Are	e normal circun	nstances pro	esent?	Township:		
Are Vegetation	on □ Soil	□, or Hydrology	□aturally	prob	lematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDINGS	5											
Hydrophytic \	Vegetation P	resent?	No)					Hydric Soi	Is Present?	No		
Wetland Hydrology Present?			No	No			Is This Sampling Point Within A Wetland? No						
Remarks:		ple point is located	d in a soybe	ean	field.								
	•												
HYDROLOG	Υ												
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):													
_		icators (Check all	tnat apply;	; iviin	ilmum of on	e primary	or two s	econdary requi	rea):	Socondon.			
<u>Primary:</u> □	-	Nator				R11 - Salt	Cruet			Secondary:	B6 - Surface S	Soil Cracks	
□ A1 - Surface Water□ A2 - High Water Table				□ B11 - Salt Crust □ □ B13 - Aquatic Fauna □								Vegetated Concave Surface	
	•			□ C1 - Hydrogen Sulfide Odor □							B10 - Drainage		
	B1 - Water M	arks				C2 - Dry S	eason Wa			Rhizospheres on Living Roots (tilled			
	B2 - Sedimen	•						spheres on Living	Roots (not till	€ □	C8 - Crayfish I		
	B3 - Drift Dep							duced Iron				n Visible on Aerial Imagery	
	B4 - Algal Ma					C7 - Thin N		ace			D2 - Geomorp D5 - FAC-Neu		
	B5 - Iron Dep	อรแร ก Visible on Aerial Ima	agery		П	Other (Exp	nain)					trai Test aved Hummocks (LRR F)	
	B9 - Water-St		agery							_	<i>D1</i> - 1103t-11e8	avea Hammocks (ERRT)	
_													
Field Observ	vations:												
Surface Water		Yes	De	epth:		(in.)							
Water Table		Yes \square		epth:		(in.)			Wetland F	łydrology l	Present?	N	
						• • •							
Saturation Present? Yes Depth: (in.)													
						• •							
		stream gauge, monit				• •	pections),	if available:					
	orded Data (s		toring well,	aeria	al photos, pre	evious insp	pections),	if available:					
Describe Reco	orded Data (s	stream gauge, monit	toring well,	aeria	al photos, pre	evious insp	pections),	if available:					
Describe Reco	orded Data (s No primary	stream gauge, monit or secondary hydro	toring well, a	aeria dicat	al photos, pro ors were ob	evious insp served.	,						
Describe Reco Remarks: SOILS Profile Descri	orded Data (s No primary ption (Descri	stream gauge, monit or secondary hydro	toring well, a	aeria	ors were ob	evious insp served.	onfirm th	e absence of ir					
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Describe Record Remarks: SOILS Profile Descrip (Type: C=Concerd) Depth (In.) 0-14 14-18 18-21	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y Fic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	be to the depth need to the detion, RM=Reduced Marxix Color (Moist) 2/1 4/3 4/1 Indicators (check to the color to the depth need to the depth need to the depth need to the detion, RM=Reduced Marxix Color (Moist) 2/1 4/3 4/1 Indicators (check to the color to the depth need	eded to do atrix, CS=Covered to the strict of the strict o	aeria dicat cum vered/ 00 00 00 f indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspections in served. Cator or contract of cator or contract in served. Moist) Moist) Moist) Moist of present in the served of matrix in served in the served in served in served in serven in se	mottle with tion: PL=P Mottle with the second confirm the tion: PL=P Mottle with the second confirm the tion: PL=P Mottle with the second confirm the tion: PL=P Mottle with the tion: PL=P Mottle with the tion: PL=P	e absence of inore Lining, M=Matrees Type	Location	SCL LS SIC Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	uck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Pl	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-152n43w15-d1	
VEGETATION (` ` '	re non-native	species.)			
Tree Stratum ((Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet	
1.	<u>Species Manne</u>	70 00101	Dominant	<u>ma.o.a.ao</u>		
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (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.						
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)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
1.						
2. 3.						
4.					Total(A)(B)	
5.					Prevalence Index = B/A = 5.000	
6.					Trevalence maex = B/A =	
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.	Glycine max	75	Υ	NI	1	
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.					All harbassaya (non woods) planta regardless of size	
12.					Herb - All herbaceous (non-woody) plants, regardless of size.	
13.					_	
14.					Woody Vines - All woody vines, regardless of height.	
15.	Total Cover	75			- Woody Vines - All woody vines, regardless of neight.	
	Total Cover =	75	_			
Moody Vino St	rotum (Plot size: 20 ft radius)					
1	ratum (Plot size: 30 ft. radius)					
2.						
3.					Hydrophytic Vegetation Present? N	
5.						
4.						
	Total Cover =	· 0				
Remarks:	Upland sample point is dominated by cultiva		ns.			
		,				
Additional R	Remarks:					
7.5.5						