WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R							Date:	07/31/14	
Applicant:		Enbridge							County:	Marshall	
Investigators		KRG/NTT			Subregion (MLF	,	MLRA 56		State:	MN	
Soil Unit:	1241			_		VI Classification	: <u> </u>				
Landform:	Talf				cal Relief: LL				Sample Point:	u-155n46w2-b1	
Slope (%):	0 - 2%		titude: 48.27		Longitude: -96.52		Datum:				
		onditions on the site ty	•					□ No	Section:		
Are Vegetati		l □, or Hydrology □			A	re normal circur	•	esent?	Township:		
Are Vegetati		l □, or Hydrology □	aturally prol	blematic?		✓ Yes	□ No		Range:	Dir:	
SUMMARY (OF FINDING	S									
Hydrophytic			No					ls Present?			
Wetland Hyd	drology Prese		No						t Within A We	etland? No	
Remarks:	The upland	point is located in an	agricultural	I field plante	d in soybeans. T	ne site is within a	an existing p	ipeline corr	idor.		
HYDROLOG	Υ										
		icators (Check all tha	at apply: Mir	nimum of on	e primary or two	secondary requi	red):				
Primary	•	icators (Crieck all the	at apply, will	illitiatii oi oii	e primary or two	secondary requi	reu).	Secondary:			
	<u>·</u>	Water		П	B11 - Salt Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aquatic Fau	na			B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns		
	A3 - Saturatio				C1 - Hydrogen Sul						
	B1 - Water M				C2 - Dry Season V					Rhizospheres on Living R	₹oots (tilled)
	B2 - Sedimen	•			C3 - Oxidized Rhiz		Roots (not till	• 🗆	C8 - Crayfish E		
	B3 - Drift Dep				C4 - Presence of F C7 - Thin Muck Su					n Visible on Aerial Imager	У
	B4 - Algal Ma B5 - Iron Dep				Other (Explain)	nace		H	D2 - Geomorpl D5 - FAC-Neut		
		on Visible on Aerial Image	erv		Other (Explain)					ived Hummocks (LRR F))
		tained Leaves	,					_		(,	
Field Obser	vations:										
	ter Present?	Yes 🗆	Depth:		(in.)						
Water Table		Yes	Depth:		. (in.) (in.)		Wetland H	lydrology l	Present?	N	
Saturation P		Yes \square	Depth:		. (in.)						
			<u> </u>		·						
		stream gauge, monitori	<u> </u>		·), if available:					
	corded Data (s		ing well, aeri	al photos, pre	·), if available:					
Describe Rec Remarks:	corded Data (s	stream gauge, monitori	ing well, aeri	al photos, pre	·), if available:					
Describe Rec Remarks:	corded Data (s No indicato	stream gauge, monitori	ing well, aeri gy were obs	al photos, preserved.	evious inspections	,					
Describe Rec Remarks: SOILS Profile Descr	orded Data (s No indicato	stream gauge, monitoring of wetland hydrologonic ibe to the depth need	ing well, aeri gy were obs	al photos, preserved.	evious inspections	he absence of ir					
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	iption (Descr	stream gauge, monitoring of wetland hydrologo ibe to the depth need etion, RM=Reduced Matrix Matrix Color (Moist)	ing well, aeri gy were obs led to docum k, CS=Covered	nent the indi	cator or confirm Grains; Location: PL= More	tles Type	rix)	Texture		Remarks	
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	iption (Descr ntration, D=Depl ric Soil Field A1- Histosol A2 - Histic Ep	stream gauge, monitoring of wetland hydrologous ibe to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) Indicators (checkling)	ing well, aeri gy were obs ed to docum k, CS=Covered % k here if ind	al photos, proserved. nent the individual Coated Sand	cator or confirm Grains; Location: PL= Mo Moist) not present): edox Matrix	tles Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (: Soils ¹	
Describe Rec Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	stream gauge, monitoring of wetland hydrologous ibe to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) Indicators (checkling)	ing well, aeri gy were obs ed to docum k, CS=Covered % k here if ind	cal photos, preserved. Served. Color (I Color (I Solution are respectively) Solution are respectively. Solution are respectively. Solution are respectively.	cator or confirm Moralisty Moral	tles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	: Soils ¹ LRR F, G, H)	
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Describe Recorder Remarks: SOILS Profile Descritype: C=Concerder Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A1- Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G Type:	ibe to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) Indicators (check in Sulfide I Layers (LRR FGH) ed Below Dark Surface lucky Mineral Mucky Peat or Peat (LRR Fleyed Matrix Matrix Check (LRR FGH) Matrix (Check in Sulfide I Layers (LRR FGH) Matrix (Check in Sulfide I	ing well, aeri gy were obs led to docum k, CS=Covered %	cal photos, preserved. Color (Inception of the individual of the	cator or confirm Grains; Location: PL= Mo Moist) % Moist) % Motor present): edox Matrix Mucky Mineral Bleyed Matrix I Matrix ark Surface Dark Surface epressions ains Depressions (N	tles Type Hudric So	Location R H)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetated or problematic.	Soils ¹ LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface ion and wetland hydrology mu	

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-155n46w2-b1
VEGETATIO	` ' '	e non-native s	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: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0
	Total Cover =	0	_		FACW spp. $0 x 2 = 0$
					FAC spp. $0 x 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{\qquad}$ $x = \underline{\qquad}$ $\underline{\qquad}$ $\underline{\qquad}$
1.					UPL spp. $_{}$ 50
2.					
3.					Total <u>55</u> (A) <u>270</u> (B)
4.					
5.					Prevalence Index = B/A = <u>4.909</u>
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.	Glycine max	50	Υ	NI	
2.	Ambrosia artemisiifolia	5	N	FACU	* 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.					
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cover =	55			
	Total Cover =		-		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1	Tatum (Flot Size. 30 it. Tadius)				
2.					
3.					Hydrophytic Vegetation Present? N
5. 5.					Hydrophytic Vegetation Present?N
4.					
4.	Total Cover =	0		_	
Pomorko:			ic at the c	odgo of o	cultivated field. Bare soil covers 50% of the area.
Remarks:	vegetation is dominated by soybeans because	se the point	is at the e	euge of a	Cultivated field. Bare soil covers 50% of the area.
Additional R	Remarks:				