## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/25/14
Applicant:	_	Enbridge			<b>.</b>	- /N 41		NAL DA TO		County:	Pennington
Investigators		RAJ/BEH			_Subregioi	•	or LRR):	MLRA 56		State:	MN
Soil Unit:	I75A Side alone			_	and Dalinfo		I Classification:			Commis Deint	454n44w49 h4
Landform: Slope (%):	Side slope 3 - 7%		Latitude: 48.		cal Relief: Longitude:		NSS	Datum:		Sample Point:	u-154n44w18-h1
,		nditions on the site						✓ Yes	□ No		
Are Vegetation		☑, or Hydrology			(II 110, CAF		e normal circum			Township:	
Are Vegetation	•	, ,	□aturally p	•		/ / /	✓ Yes		3301111	Range:	Dir:
SUMMARY (			Platarany p	obiomatio:			2 165	- 110		range.	DII.
Hydrophytic '			No					Hydric Soil	s Present?	No	
Wetland Hyd			No		<del></del>					t Within A We	etland? <b>No</b>
Remarks:	The upland	area is located in a	cultivated	ield planted t	o soybeans	s. As a r					ly problematic and is disturbed
	by tillage an	d herbicide use. So	oils are dist	urbed from ti	llage.						
<b>HYDROLOG</b>	Υ										
Wetland Hy	drology Ind	icators (Check all t	that apply: N	linimum of o	ne primary	or two se	econdary requir	red):			
Primary	• • •	(	,		, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,	, -	Secondary:		
	A1 - Surface \				B11 - Salt (					B6 - Surface S	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry Se					B10 - Drainage	Rhizospheres on Living Roots (tilled)
	B2 - Sedimen						spheres on Living	Roots (not tille	• -	C8 - Crayfish E	
	B3 - Drift Dep				C4 - Prese						National Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorph D5 - FAC-Neut	
	B5 - Iron Depo	อรแร on Visible on Aerial Ima	agerv		Other (Exp	iairi)					rai rest aved Hummocks (LRR F)
	B9 - Water-St		9-17								(,
Field Obser	vations:										
Surface Wat	er Present?	Yes □	Dep	h:	(in.)			Wetland H	lydrology l	Present?	N
Water Table		Yes □	Dep		_ (in.)			Wetland I	iyarology i	i resent :	
Saturation P	resent?	Yes □	Dep	h:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge, monito	oring well, a	erial photos, p	<u> </u>	ections),	if available:				
Describe Rec Remarks:		stream gauge, monitors of wetland hydrole			<u> </u>	ections),	if available:				
Remarks:					<u> </u>	ections),	if available:				
Remarks:	No indicator	rs of wetland hydrol	logy are pre	sent.	revious insp			diantora			
Remarks:  SOILS Profile Descri	No indicator	rs of wetland hydrological be to the depth nee	logy are pre	sent.	revious insp	onfirm the	e absence of in				
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Remarks:  SOILS Profile Descri	No indicator	rs of wetland hydrological be to the depth nee	logy are pre	sent.	revious insp	onfirm the	e absence of in ore Lining, M=Matri				
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth nee etion, RM=Reduced Mat	logy are pre	sent.  ument the inced/Coated Sand	revious insp licator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
Remarks:  SOILS Profile Descri	No indicator	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)	eded to doc	sent.  ument the inced/Coated Sand  Color	revious insp	onfirm the	e absence of in ore Lining, M=Matri	(x)	Texture		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18 18-21	No indicator	be to the depth nee etion, RM=Reduced Mat  Matrix Color (Moist)  2/1 3/2	eded to doc trix, CS=Cover	sent.  ument the inded/Coated Sand  Color	revious insp	Mottle	e absence of in ore Lining, M=Matri	(x)			Remarks
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Remarks:  SOILS Profile Descric (Type: C=Concer  Depth (In.) 0-18 18-21  NRCS Hydr	No indicator iption (Description, D=Depleted intration, D=Depleted	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/2  Indicators (che	eded to doc trix, CS=Cover	color	revious insp	Mottle	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M	uck (LRR I, J)	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18 18-21  NRCS Hydr	No indicator iption (Descriptration, D=Deplementation, D=Deplement	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/2  Indicators (che	eded to doc trix, CS=Cover	color Color Color Color Senting	revious insp	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	: Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18 18-21	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/2  Indicators (che	eded to doc trix, CS=Cover	Color Color Sent.  Sent.  Color Solution Color Solution Color Solution Color C	revious inspections inspections in the content of t	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox ( urface (LRR G)	Soils <sup>1</sup> LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18 18-21  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/2  Indicators (che	eded to doc trix, CS=Cover	Color Color Sent.  Sent.  Color Solution Color Solution Color Solution Color C	revious insp	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	: Soils <sup>1</sup>
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Remarks:  SOILS Profile Descrice (Type: C=Concert  Depth (In.)  0-18  18-21  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 Mu A11 - Deplete	be to the depth nee etion, RM=Reduced Mat  Matrix  Color (Moist)  2/1  3/2  Indicators (che ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eded to doc trix, CS=Cover	color Color Sent.  Color	icator or congrains; Locate  (Moist)  (Moist)  not present the decay of Matrix of Matr	mottle %  Mottle  t):	e absence of in ore Lining, M=Matri es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	E Soils <sup>1</sup> 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-154n44w18-h1
VEGETATION (	` ` '	re non-native	species.)		
Tree Stratum (	Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.	<u></u>	<u> 70 0010.</u>	<u>=</u>	<u></u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)
3.					<u> </u>
4.					Total Number of Dominant Species Across All Strata:1 (B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
7.					
8.					Prevalence Index Worksheet
9.		1			Total % Cover of: Multiply by:
10.	Total Cayer				OBL spp. 0
	Total Cover =	= 0			FACW spp. $0 \times 2 = 0$
Conling/Chrub (	Stratum (Plataiza: 15 ft radius)				FAC spp. $\frac{1}{\sqrt{3}}$ $\frac{3}{\sqrt{3}}$
5apiing/Shrub 3	Stratum (Plot size: 15 ft. radius)				FACU Spp. $1$ $X 4 = 4$
2.					- OF L Spp
3.					Total 83 (A) 412 (B)
4.					- Total
5.					Prevalence Index = B/A = 4.964
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) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	80	Υ	NI	
2.	Eragrostis pectinacea	1	N	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Chenopodium album	1	N	FACU	present, unless disturbed or problematic.
4.	Triticum aestivum	1	N	NI	Definitions of Vegetation Strata:
5.					
6				_	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Height (DBH), regaldless of height.
8. 9.				_	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					Sapinig/Siliub - Woody Planto 1000 than o in. BBH, Togardiess of Holgiti.
11.					4
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.				_	†
15.					Woody Vines - All woody vines, regardless of height.
,	Total Cover =	= 83			
	rotal Gover =				
Woody Vine Sti	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =				
Remarks:	A cultivated field planted to soybeans. Hydr	rophytic veç	getation is	not presei	ent.
Additional R	Remarks:				