## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/16/14	
Applicant:		Enbridge			0 1 1	(1.41 D.4		141 5 4 50		County:	Pennington	
Investigators		NTT/BEH			_Subregio	`	A or LRR):	MLRA 56		State:	MN	
Soil Unit:	I53A			_	D - l' - (		I Classification	າ:			454-4400 -14	
Landform:	Dip 3 - 7%		Latitude: 48.1		cal Relief:		7720	Datum		Sample Point	w-154n44w32-d1	
Slope (%):		nditions on the site			Longitude			Datum:	□ No	Section:		
Are Vegetati		□, or Hydrology			ar: (II 110, ex	T	e normal circur			Township:		
Are Vegetati			•				e normal circul ☑ Yes		CSCIII:	Range:	Dir:	
SUMMARY (		, ,	Diatarany pr	obicinatio:			E 163	□ NO		Range.	DII.	
			Yes					Hydric Soi	Is Present?	Yes		
Hydrophytic Vegetation Present? Wetland Hydrology Present?					_					int Within A Wetland? Yes		
Remarks:		d is a fresh wet me	Yes eadow domin	ated by Care	c pellita an	d Apocyi	num cannabinı		mpinig i oni		ottaria: 100	
HYDROLOG	Υ											
Wetland Hy	drology Ind	icators (Check all	that apply; N	linimum of or	ne primary	or two s	econdary requ	ired):	Cocondom			
<u>Primary</u> □	<u>⁄:</u>	Water		п	B11 - Salt	Crust			Secondary:	B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua		l				Vegetated Concave Surfa	ıce
	A3 - Saturation				C1 - Hydro	gen Sulfic	de Odor			B10 - Drainag	e Patterns	
	B1 - Water M				C2 - Dry S			Daata (aat till			Rhizospheres on Living Ro	oots (tilled)
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living educed Iron	g Roots (not till	ı€ □	C8 - Crayfish	виrrows n Visible on Aerial Imagery	\ V
	B4 - Algal Ma				C7 - Thin I				_ ☑	D2 - Geomorp		,
	B5 - Iron Dep	osits			Other (Exp	olain)			✓	D5 - FAC-Neu	ıtral Test	
		on Visible on Aerial Im	nagery							D7 - Frost-He	aved Hummocks (LRR F)	
	B9 - Water-S	ained Leaves										
Field Obser	vations:											
	ter Present?	Yes	Dept	h·	(in.)							
Water Table		Yes	-	h:	_ (in.)			Wetland F	lydrology l	Present?	Υ	
Saturation P		Yes □	Dept		– (in.)						<del></del>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	stream gauge moni	itoring well a	rial photos pr	<u> </u>	nections)	if available:					
					evious insp			ed on geom	ornhic nosit	ion and the F	FAC-Neutral test	
Describe Red Remarks:		stream gauge, moni wetland hydrology			evious insp			ed on geom	orphic posit	ion and the F	AC-Neutral test.	
Remarks:					evious insp			ed on geom	orphic posit	ion and the F	FAC-Neutral test.	
Remarks:	No primary		indicators a	re present. W	etland hyd	Irology is	assumed bas		orphic posit	ion and the F	FAC-Neutral test.	
Remarks: SOILS Profile Descr	No primary	wetland hydrology	eeded to docu	re present. W	etland hyd	Irology is	assumed bas e absence of i	ndicators.)	orphic posit	ion and the F	FAC-Neutral test.	
Remarks: SOILS Profile Descr	No primary	wetland hydrology be to the depth ne	eeded to docu	re present. W	etland hyd	Irology is onfirm th	assumed bas e absence of interest of interest in a second	ndicators.)	orphic posit	ion and the F	FAC-Neutral test.	
Remarks:  SOILS Profile Descr (Type: C=Conce	No primary	wetland hydrology be to the depth ne etion, RM=Reduced Ma	eeded to docu atrix, CS=Cover	ument the indicated Sand	etland hyd etland or co icator or co Grains; Loca	onfirm th	e absence of interest of interest in a second control of the contr	ndicators.)		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)	eeded to docu atrix, CS=Cover	ument the indicad/Coated Sand	etland hyd etland or co icator or co Grains; Loca	Irology is onfirm th	assumed bas e absence of interest of interest in a second	ndicators.)		ion and the F	FAC-Neutral test.  Remarks	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to docu atrix, CS=Cover	ument the indicated Sand  Color (	etland hydicator or congrains; Loca	onfirm thation: PL=P	e absence of increase absence absence of increase absence	ndicators.) trix) Location		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to docu atrix, CS=Cover	ument the indicated Sand  Color (	etland hydicator or congrains; Local	onfirm thation: PL=P  Mottl %	e absence of interest of the core Lining, M=Materials  es  Type  C	ndicators.) trix)  Location		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to docu atrix, CS=Cover	ument the indicated Sand  Color (	etland hydicator or congrains; Local	onfirm thation: PL=P	e absence of increase absence absence of increase absence	ndicators.) trix) Location		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to docu atrix, CS=Cover	ument the indicated Sand  Color (	etland hydicator or congrains; Local	onfirm thation: PL=P  Mottl %	e absence of interest of the core Lining, M=Materials  es  Type  C	ndicators.) trix)  Location		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1	eeded to docu atrix, CS=Cover	ument the indicated Sand  Color (	etland hydicator or congrains; Local	onfirm thation: PL=P  Mottl %	e absence of interest of the core Lining, M=Materials  es  Type  C	ndicators.) trix)  Location		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4 4-18	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/2	eeded to docu atrix, CS=Cover	ce present. W  ument the indicated/Coated Sand  Color ( )  Hue_10YR  Hue_10YR	etland hydicator or confictions; Local	onfirm th tion: PL=P  Mottl % 10 10	e absence of interest of the control	ndicators.) trix)  Location		ion and the F		
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4 4-18	No primary iption (Description, D=Depl	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/2	eeded to docu atrix, CS=Cover	ument the indicated Sand  Color (	etland hydicator or confictions; Local	onfirm th tion: PL=P  Mottl % 10 10	e absence of interest of the core Lining, M=Materials  es  Type  C	ndicators.) trix)  Location	Texture C C		Remarks	
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Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4 4-18  NRCS Hydi	No primary iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/2  Indicators (ch	eeded to docu atrix, CS=Cover	Color (  Hue_10YR  Hue_10YR  Adicators are	etland hydicator or congrains; Local (Moist)  6/8 7/2  not presented	onfirm th tion: PL=P  Mottl % 10 10	e absence of interest of the control	Location  M M	Texture C C C Indicators f	or Problemati	Remarks	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4 4-18  NRCS Hydi	No primary iption (Description, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR ric Soil Field	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  5/2  Indicators (characters)	eeded to docu atrix, CS=Cover	Color (CO)  Hue_10YR  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR  Hue_10YR  Color (CO)	etland hydicator or conficator	onfirm thation: PL=P  Mottl % 10 10 at):	e absence of interest of the control	Location  M M	Texture C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemati uck (LRR I, J) Prairie Redox urface (LRR G)	Remarks  c Soils <sup>1</sup> (LRR F, G, H)	
Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4 4-18	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	wetland hydrology be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  5/2  Indicators (ch	windicators a eeded to docu atrix, CS=Cover  % 100 80 neck here if ir	Color (CO)  Hue_10YR  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR  Hue_10YR  Hue_10YR  Color (CO)  Hue_10YR	etland hydicator or conficator	onfirm thation: PL=P  Mottl % 10 10 at):	e absence of interest of the control	Location  M M	Texture C C C C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	Remarks  c Soils <sup>1</sup> (LRR F, G, H)	
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Remarks:  SOILS Profile Descr (Type: C=Conce  Depth (In.) 0-4 4-18  NRCS Hydi	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm N	wetland hydrology be to the depth neetion, RM=Reduced Marix  Matrix  Color (Moist)  2/1  5/2  Indicators (characters)  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) id Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (L	windicators a eeded to docu atrix, CS=Cover  % 100 80 neck here if ir	Color (CO)  Hue_10YR	etland hydelicator or configurations; Local Moist)  Redox Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark Surf	monfirm the tion: PL=P  Mottl % 10 10 10 it):	e absence of interest of inter	Location  M M ————————————————————————————————	Texture C C C C A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	or Problemati luck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi ed Vertic earent Material Shallow Dark S ain in Remarks)	Remarks  c Soils¹ (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: w-154n44w32-d1
<b>VEGETATION</b>		re 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: 2 (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. $\frac{45}{10}$ $x 1 = \frac{45}{20}$ $x 2 = \frac{20}{20}$
	Total Cover =	=0	FACW spp. $10$ $\times 2 = 20$		
					FAC spp. $20   X   3 = 60$
	Stratum (Plot size: 15 ft. radius)	-			FACU spp. $0   x   4 = 0$
1.					UPL spp. $10   X   5 = 50$
2.					
3.					Total <u>85</u> (A) <u>175</u> (B)
4.					
5.					Prevalence Index = B/A = 2.059
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.		]			Rapid Test for Hydrophytic Vegetation
10.		]			XDominance Test is > 50%
	Total Cover =	= 0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (I	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex pellita	45	Y	OBL	
2.	Apocynum cannabinum	20	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Stachys palustris	10	N	NI	present, unless disturbed or problematic.
4.	Poa palustris	10	N	FACW	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.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
- ,	Total Cover =	= 85			
	10101 00101				
Woody Vine Str	ratum (Plot size: 30 ft. radius)				
1.	1 101 3123. 30 11. 144143)				
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	<u>'</u>				
···	Total Cover =	= 0			
Remarks:	Wetland vegetation is dominated by Carex		Apocynum	cannabin	um
Tromanto.	Treatand regetation is definitated by Carex	pointa ana r	фосупан	oarmasm.	
<u> </u>					
 	lomorko.				
Additional R	emarks:				