WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/12/14	,	
Applicant: Enbridge										Marshall			
Investigators:		BEH/MRK			_Subregio	•	A or LRR):	MLRA 56		State:	MN		
Soil Unit:	165A						I Classification			_			
Landform:	Dip				cal Relief:					Sample Point:	w-156n46w7-a1		
Slope (%):	0 - 2%		Latitude: 48.3				62481667	Datum		1			
	·	nditions on the site			ar? (If no, exp	1			□ No	Section:			
Are Vegetation		□, or Hydrology	•	y disturbed?		Are	e normal circun	nstances pr	esent?	Township:			
Are Vegetation		□, or Hydrology	□aturally pr	oblematic?				□ No		Range:	Dir:		
SUMMARY C													
Hydrophytic \	_		Yes		_				ils Present?				
Wetland Hyd			Yes							nt Within A W			
Remarks:	The wetland	d sample point is lo	ocated in a se	easonally-floo	ded basin	dominat	ted by water mu	udwort. The	site is within	n a wheat fiel	d.		
HYDROLOG	Υ												
Wetland Hy	drology Ind	icators (Check all	that apply: M	linimum of or	e primary	or two s	econdary requi	red):					
Primary:		ioators (Oncor an	that apply, iv		c primary	OI WO S	coordary requi	100).	Secondary:				
☐ A1 - Surface Water				□ B11 - Salt Crust □ B13 - Aquatic Fauna □									
☐ A2 - High Water Table													
	A3 - Saturation				C1 - Hydro			B10 - Drainage Patterns					
	B1 - Water M				C2 - Dry S		ater Table spheres on Living	Pooto (not til		C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots	; (tilled)	
	B2 - Sedimen B3 - Drift Dep	•					educed Iron	Roots (not th	"	•	Note		
☑	B4 - Algal Ma				C7 - Thin N				_ ☑	D2 - Geomorp			
	B5 - Iron Dep				Other (Exp	olain)			✓	D5 - FAC-Neu			
		n Visible on Aerial Im	nagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-St	ained Leaves											
Field Observ													
Surface Water		Yes	Dept		_ (in.)			Wetland H	Hydrology I	Present?	Υ		
Water Table		Yes	Dept		_ (in.)				.,		<u> </u>		
Saturation Pr	resent?	Yes □	Dept	n:	_ (in.)								
				•	-								
Describe Reco	orded Data (s	stream gauge, moni	itoring well, ac	rial photos, pr	evious insp	pections),	l , if available:						
Describe Reco					evious insp	pections),	, if available:						
		stream gauge, moni and soil surface cr			evious insp	pections),	, if available:						
					evious insp	pections),	, if available:						
Remarks: SOILS Profile Descri	Algal crust a	and soil surface cra	eeded to docu	ed.	cator or co	onfirm th	e absence of ir						
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Remarks: SOILS Profile Descri	Algal crust a	be to the depth ne	eeded to docu	ed.	cator or co	onfirm th	e absence of ir Pore Lining, M=Mati						
Remarks: SOILS Profile Descri (Type: C=Concen	Algal crust a	be to the depth ne etion, RM=Reduced Ma	eeded to docu	ed. Iment the indied/Coated Sand	cator or co	onfirm th tion: PL=P	ne absence of ine Pore Lining, M=Matr	rix)					
Remarks: SOILS Profile Descri (Type: C=Concent	Algal crust a	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu	ed. Iment the indicated Sand Color (cator or co	onfirm th	e absence of ir Pore Lining, M=Mati				Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-13	Algal crust a ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Marix Color (Moist)	eeded to docu	ed. Iment the indicad/Coated Sand Color (cator or co	onfirm th tion: PL=P	ne absence of ine Pore Lining, M=Matr	rix)	FSL		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-13 13-19	Algal crust a ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Marrix Color (Moist) 2/1 7/2	eeded to docu atrix, CS=Covered	ed. Iment the indi	cator or co	onfirm th tion: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	FSL FS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-13 13-19	Algal crust a ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Marrix Color (Moist) 2/1 7/2	eeded to docu atrix, CS=Covered	ed. Iment the indi	cator or co	onfirm th tion: PL=P	e absence of in Pore Lining, M=Matr es Type	Location	FSL FS		Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-13 13-19 19-23	Algal crust a ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 6/3	eeded to docu atrix, CS=Covered 100 99	color (cator or co	Mottle %	e absence of in Pore Lining, M=Matr es Type	Location	FSL FS		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-13 13-19	Algal crust a ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 6/3	eeded to docu atrix, CS=Covered 100 99	cd. Iment the indicated Sand Color (cator or co	Mottle %	e absence of in Pore Lining, M=Matr es Type C	Location	FSL FS FS	or Problematic			
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-13 13-19 19-23 NRCS Hydri	Algal crust a ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 6/3	eeded to docu atrix, CS=Covered 100 99	color (Hue_10YR dicators are r	cator or co Grains; Loca Moist) 5/8	Mottle %	e absence of in Pore Lining, M=Matr es Type C	Location	FSL FS FS	or Problemation			
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-13 13-19 19-23	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 6/3 Indicators (characters)	eeded to docu atrix, CS=Covered 100 99	Color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or cograins; Loca Moist) 5/8 not presen edox Matrix Mucky Miner	mottle with the state of the st	e absence of in Pore Lining, M=Matr es Type C	Location	FSL FS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0	luck (LRR I, J) Prairie Redox (urface (LRR G)	Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-13 13-19 19-23 NRCS Hydri	Algal crust a ption (Descriptration, D=Depl Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 6/3 Indicators (characters)	eeded to docu atrix, CS=Covered % 100 100 99	Color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or co Grains; Loca Moist) 5/8 not presen edox Matrix Mucky Miner Gleyed Matri	mottle with the state of the st	e absence of in Pore Lining, M=Matr es Type C	Location	FSL FS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-13 13-19 19-23 NRCS Hydri	Hue_10YR Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Marix Color (Moist) 2/1 7/2 6/3 Indicators (characters) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH)	eeded to docu atrix, CS=Covered % 100 100 99	Color (Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	cator or co Grains; Loca Moist) 5/8 5/8 not presen edox Matrix Mucky Miner Gleyed Matrix Matrix ark Surface	mottle which was all and the conformations of the conformation of	e absence of in Pore Lining, M=Matr es Type C	Location	FSL FS FS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	E Soils ¹ ELRR 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: w-156n46w7-a1
VEGETATIO	(Species identified in all uppercase are	e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	Dominant	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: 1 (B)
5.					· · · · · · · · · · · · · · · · · · ·
6.					Percent of Deminent Species That Are ORL EACIVE or EAC: 100.09/ (A/P)
					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					Duevalence Index Wedselses
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp45
	Total Cover =	0	FACW spp 0		
			FAC spp. $3 \times 3 = 9$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)	,			OBL spp. 45
1.					UPL spp. $\frac{10}{10}$ $x = 50$
2.					··· ———
3.					Total 58 (A) 104 (B)
4.					1 5 tal (1) (D)
4. 5.					Provolence Index P/A 4 700
					Prevalence Index = B/A = 1.793
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					X Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
	•		_		Morphological Adaptations (Explain) *
Harb Stratum	(Plot size: 5 ft. radius)				
		30	V	OBL	Problem Hydrophytic Vegetation (Explain) *
1.	Limosella aquatica		<u> </u>		* Indicators of hydric soil and watland hydrology must be
2.	Rorippa palustris	10	N	OBL	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Triticum aestivum	10	N.	NI	
4.	Gratiola neglecta	5	N	OBL	Definitions of Vegetation Strata:
5.	Plantago major	3	N	FAC	
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.					
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	58			
	•				
Woody Vine S	tratum (Plot size: 30 ft. radius)				
1.	The state of the s				
2.					
3.					Hydrophytic Vegetation Present?
					nydrophytic vegetation Present?
5.					
4.					
	Total Cover =				
Remarks:	The sample point is dominated by water muc	wort. Com	ımon yello	w-cress a	nd cultivated wheat are also prevalent.
Additional I	Remarks:				
Additional	Nonia No.				