## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/25/14	
Applicant:		Enbridge		Subragian (MLDA ar LDD): MLDA 56						County: Marshall	
Investigators: Soil Unit:	ITOTA Subregion (MLRA or LRR): MLRA 56 NWI Classification:									State: <u>MN</u>	
Landform:	Depression Local Relief: CC									Sample Point: w-154n45w11-b1	
Slope (%):	3 - 7%		Latitude: 48.		Longitude			Datum			
		nditions on the sit				1		☑ Yes		Section:	
Are Vegetatio		□, or Hydrology □, or Hydrology	•	tly disturbed?	,	Are	e normal circun ☑ Yes	nstances pr □ No	esent?	Township: Range: Dir:	
Are Vegetation			Haturally p	onobiematic?			⊠ Yes			Range: Dir:	
Hydrophytic V			Yes					Hvdric Soi	ils Present?	? Yes	
	rology Preser		Yes							nt Within A Wetland? Yes	
Remarks:		•			•		-		•	wetland. The only vegetation throughout the	
	•	parse patches of	barnyard gra	ass and bog y	ellowcress.	Most ve	egetation has be	en killed of	f by herbici	de.	
HYDROLOG											
-	•••	cators (Check al	ll that apply;	Minimum of c	one primary	or two s	econdary requi	red):	Secondary		
Primary:	A1 - Surface V	/ater		Г	B11 - Salt	Crust			<u>Secondary</u> ☑	<u>·</u> B6 - Surface Soil Cracks	
	A2 - High Wate	er Table			B13 - Aqua	atic Fauna				B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro		B10 - Drainage Patterns				
	B1 - Water Ma B2 - Sediment				C2 - Dry S C3 - Oxidiz		spheres on Living	Roots (not til	le 🗆	C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows	
	B3 - Drift Depo	•			C4 - Prese	ence of Re	educed Iron			C9 - Saturation Visible on Aerial Imagery	
	B4 - Algal Mat				C7 - Thin I		ace			D2 - Geomorphic Position	
	B5 - Iron Depo B7 - Inundation	sits NVisible on Aerial In	magery		Other (Exp	biain)				D5 - FAC-Neutral Test D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-Sta		nagory						_		
Field Observ			_								
	er Present?		•	oth:	(in.)			Wetland H	Hydrology	Present? Y	
Water Table Saturation Pr		Yes □ Yes □	•	oth:	(in.) (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks: No primary hydrology indicators are present. Wetland hydrology is assumed based on soil cracking and landscape position.											
					.,	Juobume		i ciacking a			
SOILS					.,			r cracking a			
Profile Descri		be to the depth ne	eeded to doo	cument the in	dicator or c	onfirm th	e absence of ir	dicators.)			
Profile Descri		be to the depth ne tion, RM=Reduced M	eeded to doo	cument the in	dicator or c	onfirm th	e absence of ir	dicators.)			
Profile Descri		tion, RM=Reduced N	eeded to doo	cument the in	dicator or c	onfirm th tion: PL=P	e absence of ir Pore Lining, M=Mati	dicators.)			
Profile Descri (Type: C=Concer	ntration, D=Deple	tion, RM=Reduced M Matrix	eeded to doc /atrix, CS=Cove	cument the ine ered/Coated San	dicator or co d Grains; Loca	onfirm th ation: PL=P Mottl	e absence of ir Pore Lining, M=Mati	dicators.)	Texture	Remarks	
Profile Descri	ntration, D=Deple	tion, RM=Reduced N	eeded to doo	cument the inverse of	dicator or c	onfirm th tion: PL=P	e absence of ir Pore Lining, M=Mati	ndicators.)			
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Deple	tion, RM=Reduced M Matrix Color (Moist)	eeded to doo Aatrix, CS=Cove	cument the inverse of	dicator or co d Grains; Loca (Moist)	onfirm th ation: PL=P Mottl	e absence of ir Pore Lining, M=Mati	ndicators.)	Texture		
Profile Descri (Type: C=Concer Depth (In.) 0-12	Hue_10YR Hue_10YR	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to doo Matrix, CS=Cove	Cument the inverse of Coated Same Coated Same Color Color D0 5 Hue_7.5Y Hue_10Y	dicator or co d Grains; Loca (Moist) (R 6/8 R 3/2	onfirm th Intion: PL=P Mottl % 5 10	e absence of ir Pore Lining, M=Mati es Type C C	dicators.)	Texture SC C C		
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Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16	Hue_10YR Hue_10YR	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1	eeded to doo Matrix, CS=Cove	Cument the inverse of Coated Same Coated Same Color Color D0 5 Hue_7.5Y Hue_10Y	dicator or co d Grains; Loca (Moist) (R 6/8 R 3/2	onfirm th Intion: PL=P Mottl % 5 10	e absence of ir Pore Lining, M=Mati es Type C C	Location M M	Texture SC C C	Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25	Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2	eeded to doo Matrix, CS=Cove	cument the inverse of Color 6 Color 00 5 Hue_7.5Y Hue_10Y 0 Hue_7.5Y	dicator or co d Grains; Loca (Moist) (R 6/8 R 3/2 (R 5/8	onfirm th tion: PL=P Mottl % 5 10 20	e absence of ir Pore Lining, M=Mati es Type C C C	Location M M	Texture SC C C	Remarks	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25	Hue_10YR Hue_10YR	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2	eeded to doo Matrix, CS=Cove	Cument the inverse of Coated Same Coated Same Color Color D0 5 Hue_7.5Y Hue_10Y	dicator or co d Grains; Loca (Moist) (R 6/8 R 3/2 (R 5/8	onfirm th tion: PL=P Mottl % 5 10 20	e absence of ir Pore Lining, M=Mati es Type C C	Location M M	Texture SC C C CL	Remarks Mixed matrix.	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2	eeded to doo Matrix, CS=Cove	cument the inverse of Color 6 Color 00 5 Hue_7.5Y Hue_10Y 0 Hue_7.5Y	dicator or co d Grains; Loca (Moist) (R 6/8 R 3/2 R 5/8 e not preser	onfirm th tion: PL=P Mottl % 5 10 20	e absence of ir Pore Lining, M=Mati es Type C C C	Location M M M	Texture SC C C CL Indicators	Remarks   Mixed matrix.   for Problematic Soils <sup>1</sup>	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25	Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR ic Soil Field A1- Histosol A2 - Histic Epi	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2 Indicators (cl	eeded to doo Matrix, CS=Cove	cument the intered/Coated Same 6 Color 00 5 Hue_7.5Y Hue_10Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y	dicator or co d Grains; Loca (Moist) (Moist) (R 6/8 R 3/2 (R 5/8) (R 5/8) (R 5/8) (R 5/8) (R 5/8) (R 6/8) (R 6	onfirm th ttion: PL=P Mottl % 5 10 20 t):	e absence of ir Pore Lining, M=Mati es Type C C C	Location M M M	Texture SC C C CL Indicators A9 - 1 cm N A16 - Coasi	Remarks   Mixed matrix.   for Problematic Soils <sup>1</sup> Muck (LRR I, J)   t Prairie Redox (LRR F, G, H)	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR ic Soil Field A1- Histosol A2 - Histic Epij A3 - Black Hist	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2 Indicators (cl	eeded to doo Matrix, CS=Cove	Color Color Color Color DO 5 Hue_7.5Y Hue_10Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y 0 S5 - Sandy 0 S5 - Sandy 0 S6 - Strippe 0 F1 - Loamy	dicator or co d Grains; Loca (Moist) (Moist) (R 6/8 R 3/2 R 5/8 e not preser Redox ed Matrix Mucky Miner	onfirm th tion: PL=P Mottl % 5 10 20 t):	e absence of ir Pore Lining, M=Mati es Type C C C	Location M M M	Texture SC C C C C C C C M A 16 - Coasi S7 - Dark S	Remarks   Mixed matrix.   for Problematic Soils <sup>1</sup> Auck (LRR I, J)   t Prairie Redox (LRR F, G, H)   Surface (LRR G)	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR Hue_2.5YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydrogen	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2 Indicators (cl bedon tic Sulfide	eeded to doo Matrix, CS=Cove	Color Color Color Color Color Color DO 5 Hue_7.5Y Hue_10Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y 0 S5 - Sandy S6 - Strippe S6 - Strippe S6 - Strippe F1 - Loamy S7 - Loamy	dicator or co d Grains; Loca (Moist) (Moist) (R 6/8 R 3/2 (R 5/8) (R 5/8) (R 5/8) (R 5/8) (R 5/8) (R 5/8) (R 5/8) (R 6/8) (R 6	onfirm th tion: PL=P Mottl % 5 10 20 t):	e absence of ir Pore Lining, M=Mati es Type C C C	Location M M M	Texture SC C C C C C C C C A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I	Remarks   Mixed matrix.   Mixed matrix.   Mixed matrix.   for Problematic Soils <sup>1</sup> Muck (LRR I, J)   t Prairie Redox (LRR F, G, H)   Surface (LRR G)   Plains Depressions (LRR H, outside MLRA 72, 73)	
Profile Descri (Type: C=Concer Depth (In.) 0-12 12-16 16-25 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_2.5YR Hue_2.5YR ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black Hist A4 - Hydrogen	tion, RM=Reduced M Matrix Color (Moist) 2/1 4/1 6/2 Indicators (cl bedon tic Sulfide Layers (LRR F)	eeded to doo Matrix, CS=Cove 9 10 8 8 8 10 8	Color Color Color Color DO 5 Hue_7.5Y Hue_10Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y 0 Hue_7.5Y 0 S5 - Sandy 0 S5 - Sandy 0 S6 - Strippe 0 F1 - Loamy	dicator or co d Grains; Loca (Moist) (R 6/8 R 3/2 R 5/8 e not preser Redox ed Matrix Mucky Miner Gleyed Matrix ed Matrix	onfirm th tion: PL=P Mottl % 5 10 20 t):	e absence of ir Pore Lining, M=Mati es Type C C C	Location M M M M	Texture SC C C C C C C C C A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Redu	Remarks   Mixed matrix.   Mixed matrix.   Mixed matrix.   for Problematic Soils <sup>1</sup> Muck (LRR I, J)   t Prairie Redox (LRR F, G, H)   Surface (LRR G)   Plains Depressions (LRR H, outside MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-154n45w11-b1
VEGETATIO		e non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) <u>Species Name</u>	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>78 COVEL</u>	Dominant	<u>1110.5tatus</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.	I				Total Number of Dominant Species Across All Strata: 2 (B)
5.					(_)
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <b>100.0%</b> (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 10 $X 1 = 10$
	Total Cover =	0	_		FACW spp. 0 $x 2 = 0$
					OBL spp. 10 X 1 = 10   FACW spp. 0 X 2 = 0   FAC spp. 15 X 3 = 45   FACU spp. 0 X 4 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				$FACU \text{ spp.} \qquad 0 \qquad x 4 = 0$
1.					UPL spp. 0 $X 5 = 0$
2.					
3.					Total(A)(B)
4.					
5.					Prevalence Index = B/A = 2.200
6.					
7. •					
<u>8.</u> 9.					Hydrophytic Vegetation Indicators:     Rapid Test for Hydrophytic Vegetation
10.					$\frac{1}{X}$ Dominance Test is > 50%
10.	Total Cover =	0			$\frac{X}{X} = \frac{X}{2} = \frac{1}{2} \text{ Dominance restricts > 30\%}$
		0	_		Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Echinochloa crus-galli	15	Y	FAC	
2.	Rorippa palustris	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					
6					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.					height (DBH), regardless of height.
8.					1
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.
	Total Cover =	25	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2. 3.					Hudrophytic Vocatation Brocant?
<u> </u>					Hydrophytic Vegetation Present? Y
<u> </u>	<u> </u>				
<del>.</del>	Total Cover =	0			
Remarks:			ry sparse :	amounts	of herbicide-treated bog yellowcress and barnyard grass.
			, -pailor (		
Additional F	Remarks:				