WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>08/12/14</u>			
Applicant:		Enbridge						MLRA 56		County: <u>Marshall</u>			
Investigators:	<u> </u>				_Subregio	•	State: MN						
Soil Unit:	I24A			_			I Classification:						
Landform:	Dip				cal Relief:					Sample Point: w-156n47n12-a1			
\ /	0 - 2%			368969	Longitude:			Datum:					
	·	nditions on the site typic			ar? (If no, exp	Ī			□ No	Section:			
Are Vegetation			-	disturbed?		Are	e normal circum	nstances pr	esent?	Township:			
Are Vegetation			ally pro	blematic?			Yes	□ No		Range: Dir:			
SUMMARY O													
Hydrophytic \	√egetation P	resent?	Yes		-				ils Present?				
Wetland Hydi	rology Prese	nt?	Yes					Is This Sa	mpling Poir	nt Within A Wetland? Yes			
Remarks:	The wetland	l is a linear drainage with	in a dry	-bean field,	dominated	l by wee _l	ping alkali-gras	s and tufted	d love grass	5.			
HYDROLOGY	Y												
Wetland Hy	drology Ind	cators (Check all that a	only: Mi	nimum of or	e nrimary	or two s	econdary requir	red):					
Primary:		cators (Crieck all triat a	opry, ivii	illinani oi oi	e primary	OI TWO 3	econdary requir	eu).	Secondary				
		Water			B11 - Salt (Crust			<u>⊘cconaary</u>	<u>-</u> B6 - Surface Soil Cracks			
	A2 - High Wa	ter Table			B13 - Aqua					B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturation				C1 - Hydro				V	B10 - Drainage Patterns			
	B1 - Water M				C2 - Dry Se			D (/ / / /		C3 - Oxidized Rhizospheres on Living Roots (tilled)			
□ ☑	B2 - Sedimen B3 - Drift Dep	•			C3 - Oxidiz C4 - Prese		spheres on Living	Roots (not till		C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery			
	B4 - Algal Ma				C4 - Flese					D2 - Geomorphic Position			
	B5 - Iron Dep				Other (Exp		400		☑	D5 - FAC-Neutral Test			
	•	n Visible on Aerial Imagery			()	,				D7 - Frost-Heaved Hummocks (LRR F)			
	B9 - Water-St	ained Leaves											
Field Observ	vations:												
Surface Wate	er Present?	Yes	Depth:		_ (in.)			Wetland F	Hydrology	Present? Y			
Water Table	Present?	Yes	Depth:		_ (in.)			vvetiana i	iyarology	——————————————————————————————————————			
Saturation Pr	esent?	Yes	Depth:		_ (in.)								
Describe Reco	orded Data (s	stream gauge, monitoring	vell. aer	al photos, pr	evious insp	ections).	if available:						
Remarks:		Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Permarks: Drift deposits, soil surface cracks and drainage patterns were observed.											
Remarks: Drift deposits, soil surface cracks and drainage patterns were observed.													
	Zim dopooi	is, soil surface cracks ar	a arama	age patterns	were obse	erved.							
	Zim dopoo.	s, soil sulface clacks al	a arama	age patterns	were obse	erved.							
SOILS	·						e absence of in	dicators.)					
SOILS Profile Descrip	ption (Descri	be to the depth needed tetion, RM=Reduced Matrix, CS	o docur	nent the indi	cator or co	onfirm th							
SOILS Profile Descrip	ption (Descri	be to the depth needed t	o docur	nent the indi	cator or co	onfirm th							
SOILS Profile Descrip	ption (Descri	be to the depth needed t	o docur	nent the indi	cator or co	onfirm th	ore Lining, M=Matr						
SOILS Profile Descrip	ption (Descri	be to the depth needed tetion, RM=Reduced Matrix, CS	o docur	nent the indi	cator or co Grains; Locat	onfirm th	ore Lining, M=Matr		Texture	Remarks			
SOILS Profile Descrip (Type: C=Concen	ption (Descri	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docur =Covered	nent the indi	cator or co Grains; Locat	onfirm th tion: PL=P Mottle	ore Lining, M=Matr	ix)	Texture	Remarks			
SOILS Profile Descrip (Type: C=Concen	ption (Descri tration, D=Depl	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1	o docur =Covered % 100	nent the indi	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottle	ore Lining, M=Matr es Type	Location	FSL	Remarks			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10	ption (Descriptration, D=Deplementation) Hue_2.5Y Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2	o docur =Covered % 100 94	nent the indi	Cator or co Grains; Locat Moist)	onfirm the tion: PL=P Mottle	es Type C	Location M	FSL C	Remarks			
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SOILS Profile Descrip (Type: C=Concen Depth (In.) 0-5 5-10 10-21 10-21	ption (Descriptration, D=Deplementation, D=Deplementation) Hue_2.5Y Hue_2.5Y Hue_2.5Y	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2	% 100 94 75	nent the indi	Cator or co Grains; Locat Moist) 4/4 6/6	onfirm the tion: PL=P Mottle % 6 8	es Type C	Location M	FSL C SIC SIC				
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SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21	Hue_2.5Y Hue_2.5Y Hue_2.5Y WP	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2	% 100 94 75	Color (Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 4/4 6/6 5/6	Mottle 6 8 7	es Type C C C	Location M M	FSL C SIC SIC				
SOILS Profile Descrip (Type: C=Concen Depth (In.) 0-5 5-10 10-21 10-21	Hue_2.5Y Hue_2.5Y Hue_2.5Y WP	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2	% 100 94 75	Color (Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 4/4 6/6 5/6	Mottle 6 8 7	es Type C C	Location M M	FSL C SIC SIC OT	CaCO3			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y WP	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2	% 100 94 75	Color (Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 4/4 6/6 5/6 not present	Mottle 6 8 7	es Type C C C	Location M M M	FSL C SIC SIC OT	CaCO3 for Problematic Soils ¹			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y WP ic Soil Field	be to the depth needed to the tion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2 Indicators (check here)	% 100 94 75	Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R	cator or co Grains; Local Moist) 4/4 6/6 5/6 not present	Mottle 6 8 7	es Type C C C	Location M M M	FSL C SIC SIC OT Indicators A9 - 1 cm N	CaCO3 for Problematic Soils ¹ Muck (LRR I, J)			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth needed to the tion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2 Indicators (check he inpedon	% 100 94 75	Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped	Cator or co Grains; Locat Moist) 4/4 6/6 5/6 not present	Mottle % 6 8 7	es Type C C C	Location M M M	FSL C SIC SIC OT Indicators A9 - 1 cm N A16 - Coas	CaCO3 for Problematic Soils Muck (LRR I, J) t Prairie Redox (LRR F, G, H)			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2 Indicators (check headipedon etic	% 100 94 75	Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Cator or co Grains; Locat Moist) 4/4 6/6 5/6 not present	Mottle Mottle 6 8 7 t):	es Type C C C	Location M M M	FSL C SIC SIC OT Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	CaCO3 for Problematic Soils Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G)			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2 Indicators (check headipedon etic	% 100 94 75	Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped	Cator or co Grains; Local Moist) 4/4 6/6 5/6 not presentedox Matrix Mucky Minera	Mottle Mottle 6 8 7 t):	es Type C C C	Location M M M	FSL C SIC SIC OT Indicators A9 - 1 cm N A16 - Coas S7 - Dark S	CaCO3 for Problematic Soils Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)			
Depth (In.) 0-5 5-10 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth needed to etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2 Indicators (check he dipedon etic in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 94 75 10 ere if inc	Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (Hue_10YR	Moist) 4/4 6/6 5/6 not presented Matrix Mucky Mineral Matrix	Mottle % 6 8 7 t):	es Type C C C	Location M M M	FSL C SIC SIC OT Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F	CaCO3 for Problematic Soils Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material			
SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-5 5-10 10-21 10-21 10-21 NRCS Hydri	Hue_2.5Y Hue_2.5Y Hue_2.5Y Hue_2.5Y WP ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	be to the depth needed to etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2.5/1 4/2 5/2 10YR 9/2 Indicators (check he dipedon etic on Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	% 100 94 75 10 ere if inc	Color (Hue_10YR Hue_10YR Hue_10YR Hue_10YR Licators are I S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox E F7 - Depleted	Moist) 4/4 6/6 5/6 Tot present Addrix Mucky Minera Bleyed Matrix Mucky Minera Bleyed Matrix Mucky Surface Blook Surface Blook Surface	Mottle % 6 8 7 t):	es Type C C C	Location M M M	FSL C SIC SIC OT Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Redu TF2 - Red F TF12 - Very	CaCO3 for Problematic Soils Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material y Shallow Dark Surface			
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-156n47n12-a1				
					•				
VEGETATIO	N (Species identified in all uppercase are	non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)								
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (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.					(7, 12)				
8.					Prevalence Index Worksheet				
					4				
9.					Total % Cover of: Multiply by:				
10.	Tatal Cavan				$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
	Total Cover = _	0			FACVV spp. 35 \times $2 = 70$				
					OBL spp. 3				
	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 \times 4 = 0$				
1.					UPL spp. $0 x 5 = 0$				
2.									
3.					Total53(A)118(B)				
4.									
5.					Prevalence Index = B/A = 2.226				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					X Dominance Test is > 50%				
10.	Total Cover =	0			X Prevalence Index is ≤ 3.0 *				
	Total Cover =_	U							
					Morphological Adaptations (Explain) *				
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Puccinellia distans	35	Y	FACW					
2.	Eragrostis pectinacea	15	Υ	FAC	* Indicators of hydric soil and wetland hydrology must be				
3.	Beckmannia syzigachne	3	N	OBL	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.				
					Herb = 74ii Herbaccous (Horr Woody) plants, regardless of size.				
13.									
14.					All was about the state of the state of				
15.					Woody Vines - All woody vines, regardless of height.				
	Total Cover = _	53							
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.									
2.									
3.					Hydrophytic Vegetation Present? Y				
5.									
4.									
	Total Cover =	0							
Remarks:	The sample point is dominated by weeping al		and tufted	d love grad	<u> </u>				
remarks.	The sample point is dominated by weeping at	ikaii-grass	s and turted	a love gra					
Additional Remarks:									