WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: <u>09/16/14</u>	
Applicant:		Enbridge								County: Marshall	
Investigators:	· ·			Subregion (MLRA or LRR): MLRA 56						State: MN	
Soil Unit:	I24A			-			I Classification				
	Dip				cal Relief:					Sample Point: w-156n46w33-i1	
\ /	0 - 2%		atitude: 48.28		Longitude:			Datum			
	·	nditions on the site ty	•		Ir? (If no, exp				□ No	Section:	
Are Vegetatio			significantly			Are	e normal circun	•	esent?	Township:	
Are Vegetatio			naturally pro	blematic?			Yes	□ No		Range: Dir:	
SUMMARY O											
Hydrophytic V	egetation P	resent?	Yes		•				ils Present?		
Wetland Hydr	rology Prese	nt?	Yes					Is This Sa	mpling Poir	nt Within A Wetland? Yes	
Remarks:	A wet mead	ow community in a s	swale within	a hay field.	The field h	nas been	n cut for hay, bu	it most spec	cies are still	l identifiable.	
HYDROLOGY	'										
		icators (Check all th	at apply: Mi	nimum of on	a nrimary	or two s	econdary requi	red):			
Primary:	urology illu	icators (Crieck all til	iat apply, iviii	illillulli oi oil	e primary	OI TWO S	econdary requi	eu).	Secondary:		
	A1 - Surface \	Nater		П	B11 - Salt (Crust				<u>-</u> B6 - Surface Soil Cracks	
					B13 - Aqua		l			B8 - Sparsely Vegetated Concave Surface	
	A3 - Saturatio				C1 - Hydro	gen Sulfic	de Odor			B10 - Drainage Patterns	
	B1 - Water Ma				C2 - Dry Se					C3 - Oxidized Rhizospheres on Living Roots ((tilled)
	B2 - Sedimen	•					spheres on Living	Roots (not til	le 🗀	C8 - Crayfish Burrows	
	B3 - Drift Dep						educed Iron			C9 - Saturation Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin N Other (Exp		ace		☑	D2 - Geomorphic Position D5 - FAC-Neutral Test	
	•	n Visible on Aerial Imag	erv		Other (Exp	iaii)				D7 - Frost-Heaved Hummocks (LRR F)	
	B9 - Water-St	•	Oly						_	27 Troot ricavoa frammooko (Erikti)	
Field Observ	vations:										
Surface Wate		Yes	Depth:		(in.)						
Water Table I		Yes	Depth:		(in.)			Wetland H	Hydrology	Present? Y	
Saturation Pro		Yes	Depth:		1					_	
	esentr	162	Бериі.		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco	orded Data (s	stream gauge, monitor	ring well, aeri	al photos, pre	evious insp	ections),	if available:				
	•	stream gauge, monitor f wetland hydrology a			evious insp	ections),	, if available:				
	•				evious insp	ections),	, if available:				
Remarks:	Indicators o	f wetland hydrology a	are present.		·	,					
Remarks: SOILS Profile Descrip	Indicators o	f wetland hydrology a	are present.	nent the indi	cator or co	onfirm th	e absence of ir				
Remarks: SOILS Profile Descrip	Indicators o	f wetland hydrology a	are present.	nent the indi	cator or co	onfirm th	e absence of ir				
Remarks: SOILS Profile Descrip	Indicators o	f wetland hydrology a be to the depth need etion, RM=Reduced Matrix	are present.	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descrip (Type: C=Concent	Indicators o	be to the depth need etion, RM=Reduced Matrix	ded to docun	nent the indic	cator or co Grains; Locat	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	ix)			
Remarks: SOILS Profile Descrip	Indicators o	f wetland hydrology a be to the depth need etion, RM=Reduced Matrix	are present.	nent the indi	cator or co Grains; Locat	onfirm th	e absence of in ore Lining, M=Matr		Texture	Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent	Indicators o	be to the depth need etion, RM=Reduced Matrix	ded to docun	nent the indic	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	ix)	Texture LFS	Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent	Indicators o	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	ded to document, CS=Covered	nent the indicated Sand Control	cator or co Grains; Locat Moist)	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type	Location		Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12	Indicators of tion (Description, Deposition, Deposition, Deposition, Deposition, Deposition, Description, Deposition, Deposition, Deposition, Deposition, Deposition, Description, Deposition, Deposition, Deposition, Description, Description	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1	ded to documents, CS=Covered % 95	Color (F Hue_10YR	Cator or co Grains; Locat Moist) 6/6 6/8	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr es Type C	Location PL	LFS	Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9	otion (Descritration, D=Deplement) Hue_10YR	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4	ded to documents, CS=Covered % 95 40	nent the indicated Sand Color (Indicated San	Cator or co Grains; Locat Moist) 6/6 6/8	onfirm the tion: PL=P Mottle % 5 60	e absence of interest in the core Lining, M=Matrees Type C C	Location PL M	LFS FS	Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12	Indicators of tion (Description, Deposition, Deposition, Deposition, Deposition, Deposition, Description, Deposition, Deposition, Deposition, Deposition, Deposition, Description, Deposition, Deposition, Deposition, Description, Description	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4	ded to documents, CS=Covered % 95 40	Color (F Hue_10YR	Cator or co Grains; Locat Moist) 6/6 6/8	onfirm the tion: PL=P Mottle % 5 60	e absence of interest in the core Lining, M=Matrees Type C C	Location PL M	LFS FS	Remarks	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12	Indicators of tion (Description, Deposition, Deposition, Deposition, Deposition, Deposition, Description, Deposition, Deposition, Deposition, Deposition, Deposition, Description, Deposition, Deposition, Deposition, Description, Description	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4	ded to documents, CS=Covered % 95 40	Color (F Hue_10YR	Cator or co Grains; Locat Moist) 6/6 6/8	onfirm the tion: PL=P Mottle % 5 60	e absence of interest in the core Lining, M=Matrees Type C C	Location PL M	LFS FS	Remarks	
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Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_2.5Y	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (checking)	led to document, CS=Covered % 95 40 80	Color (I Hue_10YR Hue_10YR Hue_10YR Icators are n	Cator or co Grains; Local Moist) 6/6 6/8 6/8	Mottle 60 20	e absence of interest Lining, M=Matro	Location PL M	LFS FS FS Indicators 1 A9 - 1 cm M	for Problematic Soils ¹ Muck (LRR I, J)	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (checking)	led to document, CS=Covered % 95 40 80	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR So - Sandy Rough	Moist) 6/6 6/8 6/8 oot presentedox Matrix	Mottle % 5 60 20 t):	e absence of interest Lining, M=Matro	Location PL M M	Indicators 1 A9 - 1 cm M A16 - Coast	for Problematic Soils¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H)	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (checking)	led to document, CS=Covered % 95 40 80	Color (I Hue_10YR Hue_10YR Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M	Moist) 6/6 6/8 6/8 oot presentedox Matrix lucky Minera	Mottle % 5 60 20 t):	e absence of interest Lining, M=Matro	Location PL M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problematic Soils¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G)	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (checking Sulfide)	where if ind	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR	Moist) 6/6 6/8 6/8 ot presentedox Matrix Jucky Mineral	Mottle % 5 60 20 t):	e absence of interest Lining, M=Matro	Location PL M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (checking Sulfide Layers (LRR F)	led to document, CS=Covered % 95 40 80	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Hue_10YR Hue_10YR Fue_10YR Fue_10YR Color (I Hue_10YR Hue_10YR Fue_10YR	Moist) 6/6 6/8 6/8 ot presentedox Matrix lucky Mineraleyed Matrix Matrix	Mottle Mottle Mottle S 60 20 t):	e absence of interest Lining, M=Matro	Location PL M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduce	for Problematic Soils ¹ Muck (LRR I, J) t Prairie Redox (LRR F, G, H) Surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic	
Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH)	where if ind	Color (I Hue_10YR Hue_10YR Hue_10YR Cated Sand Of the color (I Hue_10YR Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy G F3 - Depleted F6 - Redox D	Moist) 6/6 6/8 6/8 ot presented Matrix Matrix Matrix Matrix All Surface	Mottle % 5 60 20 t):	e absence of interest Lining, M=Matro	Location PL M M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red F	for Problematic Soils ¹ 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	
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Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (checking Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR	ged to document with the second secon	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Hue_10YR Hue_10YR Color (I Hue_10YR Hue	cator or co Grains; Local Moist) 6/6 6/8 6/8 6/8 cot present	Mottle % 5 60 20 tt):	e absence of interesting memory of the control of t	Location PL M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematic Soils ¹ 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 t Shallow Dark Surface	
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Remarks: SOILS Profile Descrip (Type: C=Concent) Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR FCky Peat or P	ged to document with the second secon	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Hue_10YR Hue_10YR Color (I Hue_10YR Hue	cator or co Grains; Local Moist) 6/6 6/8 6/8 6/8 cot present	Mottle % 5 60 20 tt):	e absence of interesting memory of the control of t	Location PL M M	Indicators of PS Indicators o	for Problematic Soils¹ 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 t Shallow Dark Surface ain in Remarks)	resent,
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Remarks: SOILS Profile Descrip (Type: C=Concent Depth (In.) 0-9 9-12 12-18 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y C Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mul A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mul S4 - Sandy G	be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 6/4 6/2 Indicators (check ipedon stice in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR F) leyed Matrix	ged to document with the second secon	Color (I Hue_10YR Hue_10YR Hue_10YR Hue_10YR Color (I Hue_10YR Hue	Moist) 6/6 6/8 6/8 ot presented Matrix lucky Mineral Matrix ark Surface Dark Surface pressions ains Depres	Mottle Mottle % 5 60 20 t):	e absence of infore Lining, M=Matroses Type C C C C Hydric So	Location PL M M H PR H II Present?	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark SF16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed) Y	for Problematic Soils¹ Muck (LRR I, J) It 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 ain in Remarks) hydrophytic vegetation and wetland hydrology must be p	

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-156n46w33-i1			
					•			
VEGETATION	(Species identified in all uppercase a	are 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:3(A)			
3.								
4.					Total Number of Dominant Species Across All Strata:3(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. 49 x 1 = 49			
	Total Cover	= 0			FACW spp. $\underline{\qquad}$ 41 $\underline{\qquad}$ X 2 = $\underline{\qquad}$ 82			
					Total % Cover of: Multiply by: OBL spp. 49 X 1 = 49 FACW spp. 41 X 2 = 82 FAC spp. 5 X 3 = 15 FACU spp. 0 X 4 = 0 UPL spp. 0 X 5 = 0			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. $\underline{\qquad}$ $x = \underline{\qquad}$			
1.	Populus deltoides	5	Y	FAC	UPL spp. $\underline{\qquad}$ $X 5 = \underline{\qquad}$			
2.								
3.					Total <u>95</u> (A) <u>146</u> (B)			
4.								
5.					Prevalence Index = B/A = 1.537			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover:	= 5			X Prevalence Index is ≤ 3.0 *			
			_		Morphological Adaptations (Explain) *			
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Beckmannia syzigachne	25	Υ	OBL				
2.	Typha X glauca	20	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Hordeum jubatum	15	 N	FACW	present, unless disturbed or problematic.			
4.	Rumex stenophyllus	15	N	FACW	Definitions of Vegetation Strata:			
5.	Symphyotrichum lanceolatum	10	N	FACW				
6	Juncus nodosus	3	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.	Eleocharis obtusa	1	N	OBL	height (DBH), regardless of height.			
8.	Juncus longistylis	1	N	FACW				
9.	- Junicus longistylis	1		171011	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
10.				_	Supming/Sin us			
11.								
12.					Herb - All herbaceous (non-woody) plants, regardless of size.			
					Herb - 7 in Horbaccous (Horr woody) plants, regardless of 5/25.			
13.	<u> </u>							
14.					Woody Vines - All woody vines, regardless of height.			
15.	Tatal Oassa	00			Woody Vines - All woody vines, regardless of fleight.			
	Total Cover	= 90						
Woody Vine Str	ratum (Plot size: 30 ft. radius)							
1.		_						
2.								
3.					Hydrophytic Vegetation Present?Y			
5.	<u> </u>							
4.								
	Total Cover							
Remarks: A wet meadow community dominated by slough grass and hybrid cattail with many additional species present at low coverage. Hydrophytic vegetation is present.								
Additional Remarks:								