## WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R							Date:	07/29/14	
Applicant:		Enbridge				(2.4 2	=		County:	Marshall	
Investigators		NTT/KRG			_Subregion (	(MLRA or LRR):	MLRA 56		State:	MN	
Soil Unit:	<u>I130A</u>				15 " ( 6	NWI Classification	on:			450.40.0014	
Landform:	Depression				cal Relief: C				Sample Point:	w-158n48w36-b1	
Slope (%):	8 - 15%		Latitude: 48.4		Longitude: -		Datum:				
		onditions on the site			ar? (If no, explai		☑ Yes	□ No	Section:		
Are Vegetation			•	ly disturbed?		Are normal circ	•	esent?	Township:	5.	
Are Vegetation		, ,	□aturally pr	roblematic?		☑ Ye:	s □ No		Range:	Dir:	
SUMMARY C								L D (0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Hydrophytic \	•		Yes		-			Is Present?		(la 10 Va 2	
Wetland Hyd			Yes	1 141 1	1 1 1 12 1				t Within A W		
Remarks:	The wetland	d is a fresh wet mea	adow locate	d within a road	dside ditch a	ind dominated by Pl	halarıs arundı	nacea and I	Elymus repen	S.	
HYDROLOG`	Y										
Wetland Hy	drology Ind	icators (Check all t	that apply; N	Ainimum of or	e primary or	r two secondary req	uired):				
Primary	<u>:</u>	`					•	Secondary:			
✓	A1 - Surface				B11 - Salt Cr				B6 - Surface S		
	A2 - High Wa				B13 - Aquatio					/egetated Concave Surface	
	A3 - Saturation B1 - Water M					en Sulfide Odor Ison Water Table			B10 - Drainage	e Patterns Rhizospheres on Living Roots (	(tilled)
	B2 - Sedimen					d Rhizospheres on Livii	na Roots (not till	le 🗆	C8 - Crayfish E		(tilled)
_	B3 - Drift Dep	•		_		ce of Reduced Iron			-	Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin Mu				D2 - Geomorp		
	B5 - Iron Dep				Other (Explai	in)			D5 - FAC-Neut		
		on Visible on Aerial Ima tained Leaves	agery						D7 - Frost-Hea	ved Hummocks (LRR F)	
	by - water-s	laineu Leaves									
Field Observ	votiono										
		V	<b>D</b>	0	(i.e. )						
Surface Wat		Yes ☑	Dept		_ (in.)		Wetland F	Hydrology I	Present?	Υ	
Water Table		Yes	Dept		_ (in.)					<u>—</u>	
	resent?	Yes □	Dept	in:	(In )						
Saturation P	10001111	103 =		····	_ (in.)						
		stream gauge, monito	<u> </u>		<u> </u>	ctions), if available:					
	orded Data (s		oring well, a	erial photos, pr	evious inspec	ctions), if available:					
Describe Rec	orded Data (s	stream gauge, monito	oring well, a	erial photos, pr	evious inspec	ctions), if available:					
Describe Reconstruction Remarks:	orded Data (s The wetland	stream gauge, monitod has roughly two in	oring well, aches of sta	erial photos, pr nding water th	evious inspec roughout.	·					
Describe Reconstruction Remarks:  SOILS Profile Descri	orded Data (s The wetland	stream gauge, monitod has roughly two in the to the depth nee	oring well, aches of sta	erial photos, pr nding water th ument the indi	evious inspectors in the contract of the contr	firm the absence of					
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Describe Reconstruction Remarks:  SOILS Profile Descri	orded Data (s The wetland	stream gauge, monitod has roughly two in libe to the depth nee letion, RM=Reduced Mat	oring well, aches of sta	erial photos, pr nding water th ument the indi	evious inspectors in the contract of the contr	firm the absence of n: PL=Pore Lining, M=M					
Describe Reconstruction Remarks:  SOILS Profile Description (Type: C=Concert)	orded Data (s The wetland	stream gauge, monitod has roughly two in libe to the depth nee letion, RM=Reduced Mat	oring well, aches of standard or standard to docutrix, CS=Cover	erial photos, pr nding water th ument the indi	evious inspectors in the contract of the contr	firm the absence of n: PL=Pore Lining, M=M Mottles	atrix)			Danasalas	
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Describe Reconstruction Remarks:  SOILS Profile Descripore Carrotte Carrott	iption (Description, Depointment)  ric Soil Field  A1- Histosol A2 - Histic Ep	stream gauge, monitod has roughly two in libe to the depth nee letion, RM=Reduced Materix  Color (Moist)  Indicators (checking)	oring well, aches of sta	crial photos, proding water the indicated Sand Color (  S5 - Sandy R S6 - Stripped	evious inspectoroughout.  cator or conference for a confe	firm the absence of n: PL=Pore Lining, M=M  Mottles  %  Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (	: Soils <sup>1</sup>	
Describe Reconstruction Remarks:  SOILS Profile Descripe: C=Concert  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His	stream gauge, monitod has roughly two in libe to the depth nee letion, RM=Reduced Materix  Color (Moist)  Indicators (checking)	oring well, aches of sta	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N	evious inspectoroughout.  cator or conference of Grains; Location  Moist)  not present):  dedox Matrix Mucky Mineral	firm the absence of n: PL=Pore Lining, M=M  Mottles  %  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils <sup>1</sup> LRR F, G, H)	
Describe Reconstruction Remarks:  SOILS Profile Descripore Carrotte Carrott	iption (Description, Depoint at a Histosol A2 - Histic Ep A3 - Black Histoge	stream gauge, monitod has roughly two in be to the depth need etion, RM=Reduced Matrix  Color (Moist)  Indicators (checking stice in Sulfide	oring well, aches of standard	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C	evious inspectoroughout.  cator or configrains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix	firm the absence of n: PL=Pore Lining, M=M  Mottles  %  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Sc F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	: Soils <sup>1</sup>	
Describe Reconstruction Remarks:  SOILS Profile Descripore Carrotte Carrott	iption (Description, Depointment)  iption (Description, Depointment)  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge A5 - Stratified	stream gauge, monitod has roughly two in libe to the depth need letion, RM=Reduced Materian Matrix  Color (Moist)  Indicators (checking Sulfide I Layers (LRR F)	oring well, aches of standard to document the standard to document the standard trix, CS=Cover     Cover    Cov	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted	evious inspectoroughout.  cator or conferains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix	firm the absence of n: PL=Pore Lining, M=M  Mottles  %  Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic	: Soils <sup>1</sup> LRR F, G, H)	
Describe Reconstruction Remarks:  SOILS Profile Descripore Carrotte Carrott	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	stream gauge, monitod has roughly two in be to the depth need to the depth need to the depth need to the determined matrix.  Color (Moist)  Indicators (check in Sulfide at Layers (LRR F) to the lock (LRR FGH)	eded to docutrix, CS=Cover	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy N  F3 - Depleted F6 - Redox D	evious inspectoroughout.  cator or conference in the conference in	firm the absence of n: PL=Pore Lining, M=M  Mottles  % Type	Location	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 red Vertic Parent Material	ESoils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)	
Describe Recordance Remarks:  SOILS Profile Descripation (Type: C=Concerdance)  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth need etion, RM=Reduced Matrix  Color (Moist)  Indicators (check in Sulfide I Layers (LRR FGH) et Below Dark Surface	eded to docutrix, CS=Cover	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy C  F3 - Depleted F6 - Redox D  F7 - Depleted	evious inspectoroughout.  cator or configrains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix Matrix Dark Surface d Dark Surface	firm the absence of n: PL=Pore Lining, M=M  Mottles  % Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic	ESoils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)	
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Describe Recordance Remarks:  SOILS Profile Descripore C=Concerdance  Depth (In.)	ric Soil Field  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	ibe to the depth need etion, RM=Reduced Matrix  Color (Moist)  Indicators (check the color of th	eded to docutrix, CS=Cover	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy O  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	evious inspectoroughout.  cator or conferains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix Matrix Dark Surface Depressions	firm the absence of n: PL=Pore Lining, M=M  Mottles % Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface	
Describe Recordance Remarks:  SOILS Profile Descripation (Type: C=Concerdance)  Depth (In.)  NRCS Hydre Descripation (In.)	iption (Description, Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleted A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	ibe to the depth need to the d	eded to docutrix, CS=Cover	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy O  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	evious inspectoroughout.  cator or conferains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix Matrix Dark Surface Depressions	firm the absence of n: PL=Pore Lining, M=M  Mottles % Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of I	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESoils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 73)	resent,
Describe Recordance Remarks:  SOILS Profile Descripore C=Concerdance  Depth (In.)	ric Soil Field  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	ibe to the depth need to the d	eded to docutrix, CS=Cover	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy O  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	evious inspectoroughout.  cator or conferains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix Matrix Dark Surface Depressions	firm the absence of n: PL=Pore Lining, M=M  Mottles % Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High FF18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of I	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface	resent,
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Describe Recordance Remarks:  SOILS Profile Descripation (Type: C=Concerdance)  Depth (In.)  NRCS Hydre Descripation (In.)	iption (Descriptration, Depleted A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Depleted A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	ibe to the depth need etion, RM=Reduced Matrix  Color (Moist)  Indicators (check the surface of	eded to docutrix, CS=Cover	color (  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy O  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	evious inspectoroughout.  cator or conferains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix d Matrix Dark Surface Depressions Lains Depressions Lains Depressions	firm the absence of n: PL=Pore Lining, M=M  Mottles % Type	Location	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark S6 F16 - High F18 - Reduct TF2 - Red FTF12 - Very Other (Explain Indicators of Funless disturbed)	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface	resent,
Describe Recordance Remarks:  SOILS Profile Descripore C=Concerdance  Depth (In.)	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A1- Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G  Type:	ibe to the depth need to the determine the depth need to the depth	eded to docutrix, CS=Cover	color ( Color	evious inspectoroughout.  cator or conferains; Location  Moist)  not present):  dedox Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix Dark Surface d Dark Surface d Dark Surface depressions dains Depressions	firm the absence of n: PL=Pore Lining, M=M  Mottles  % Type	Location  Location  RR H)	Indicators of A9 - 1 cm MA16 - Coast S7 - Dark Score F16 - High F18 - Reduct TF2 - Red F1712 - Very Other (Explain Indicators of Funless disturbed)  Y	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegetated or problematic.	ESOIIS <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface	

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-158n48w36-b1				
					•				
<b>VEGETATION</b>	N (Species identified in all uppercase are	e 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:1 (A)				
3.									
4.					Total Number of Dominant Species Across All Strata:(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)				
7.									
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.					OBL spp 0				
	Total Cover =	0	FACW spp. $_{-}$ 70						
			OBL spp. 0						
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 30 X 4 = 120				
1.					UPL spp. $0   x   5 = 0$				
2.									
3.					Total 100 (A) 260 (B)				
4.									
5.					Prevalence Index = B/A = 2.600				
6.									
7.									
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.					Dominance 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.	Phalaris arundinacea	45	Υ	FACW					
2.	Elymus repens	25	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be				
3.	Rumex stenophyllus	15	N	FACW	present, unless disturbed or problematic.				
4.	Calamagrostis canadensis	10	N	FACW	Definitions of Vegetation Strata:				
5.	Poa pratensis	5	N	FACU					
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.					Gapinig, oin all				
11.									
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.				
13.					, , , , , , , , , , , , , , , , , , ,				
14.									
15.					Woody Vines - All woody vines, regardless of height.				
13.	Total Cover	100			vvoody vines - 7 iii woody vines, regulalese si nelgini				
	Total Cover =	100							
\\\ \cdot \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	value (Distriction 00 ft and diss)								
vvoody vine Sti	ratum (Plot size: 30 ft. radius)								
1.									
2.					Ukudaankutia Wanatatian Buasanto V				
3.					Hydrophytic Vegetation Present?Y				
5.									
4.	Tatal Ossas								
Danasalas	Total Cover =		·	-1 <b>-</b> 1	and a second the continuous of the order of the other than a second to the order of the other ot				
Remarks:	The wetland vegetation is dominated by Pha	laris arund	inacea an	d Elymus	repens with various other facultative plant species.				
Additional Remarks:									