## WETLAND DETERMINATION DATA FORM Great Plains Region

		I	T							Γ_		
Project/Site:		L3R								Date: County:	08/01/14 Maraball	
Applicant: Enbridge Investigators: NTT/KRG				Subregion (MLRA or LRR): MLRA 56							Marshall MN	
Soil Unit:					Subregio	•	State:	IVIIN				
Landform:	Depression			- Lo	cal Relief:		I Classification	TIOIA		Sample Point:	w-155n46w12-b1	
Slope (%): 3 - 7% Latitude: 48.265621 Longitude: -96.509669 Datum:												
Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks)												
Are Vegetation		□, or Hydrology					e normal circun	nstances pre	esent?	Township:		
Are Vegetation	on 🗆 Soi	□, or Hydrology	□aturally pro	blematic?			Yes	□ No		Range:	Dir:	
SUMMARY C	OF FINDING	S										
Hydrophytic '	•		Yes						ls Present?			
Wetland Hyd			Yes							nt Within A We		
Remarks: The wetland is a floodplain forest located alongside a shallow river and dominated by Fraxinus pennsylvanica and Carex retrorsa.												
HYDROLOG	Υ											
		icators (Check all	that apply; Mi	nimum of one	e primary	or two se	econdary requi	red):				
<u>Primary</u>		10/-1		_	D44 O-16	0			Secondary:	•		
	A1 - Surface A2 - High Wa			_	B11 - Salt ( B13 - Aqua					B6 - Surface S	оп Стаскs √egetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		
	B1 - Water M				C2 - Dry S	eason Wa	iter Table				Rhizospheres on Living Roots (tilled)	
✓	B2 - Sedimer	•					spheres on Living	Roots (not till	• 🗆	C8 - Crayfish E		
	B3 - Drift Dep				C4 - Prese						n Visible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep			_	C7 - Thin N Other (Exp		ace		<b>☑</b>	D2 - Geomorph D5 - FAC-Neut		
		on Visible on Aerial Im	nagery		Other (Lxp	nan ij					aved Hummocks (LRR F)	
		tained Leaves									,	
Field Obser	vations:											
Surface Wat	ter Present?	Yes □	Depth		(in.)			Wetland H	lydrology l	Present?	Υ	
Water Table	Present?	Yes □	Depth		(in.)			wetianu n	iyarology	riesent:	<u> </u>	
Saturation P	resent?	Yes □	Depth	:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:	Hydrology is							flooding.				
Remarks:	Hydrology i							flooding.				
Remarks: SOILS	Hydrology i							flooding.				
SOILS Profile Descri	iption (Descr	s indicated by the s	sparsely veget	ated area an	d sedime	nt depos	its from recent e absence of ir	ndicators.)				
SOILS Profile Descri	iption (Descr	s indicated by the s	sparsely veget	ated area an	d sedime	nt depos	its from recent e absence of ir	ndicators.)				
SOILS Profile Descri	iption (Descr	ibe to the depth ne	sparsely veget	ated area an	d sedime	nt depos	its from recent e absence of ir ore Lining, M=Matr	ndicators.)				
SOILS Profile Descri (Type: C=Concer	iption (Descr	ibe to the depth ne etion, RM=Reduced Ma	eeded to docur	nent the indicated Sand C	cator or co	onfirm the	its from recent e absence of ir ore Lining, M=Matr	ndicators.)	Toytura		Domostko	
SOILS Profile Descri (Type: C=Concer	iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)	eeded to docur atrix, CS=Covered	nent the indicated Sand Coolor (N	cator or co Grains; Loca Moist)	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matres	ndicators.)	Texture		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descr	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)	eeded to docur	nent the indicated Sand Color (Note of the Lorent L	cator or co Grains; Loca Moist)	onfirm the tion: PL=P	e absence of irore Lining, M=Matres  Type D	Location	CL		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)	eeded to docur atrix, CS=Covered	nent the indicated Sand Coolor (N	cator or co Grains; Loca Moist)	onfirm the tion: PL=Po	e absence of ir ore Lining, M=Matres	ndicators.)			Remarks	
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SOILS Profile Descri (Type: C=Concer	iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)	eeded to docur atrix, CS=Covered	nent the indicated Sand Color (Note of the Lorent L	cator or co Grains; Loca Moist)	onfirm the tion: PL=P	e absence of irore Lining, M=Matres  Type D	Location	CL		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)	eeded to docur atrix, CS=Covered	nent the indicated Sand Color (Note of the Lorent L	cator or co Grains; Loca Moist)	onfirm the tion: PL=P	e absence of irore Lining, M=Matres  Type D	Location	CL		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18	iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	eeded to docuratrix, CS=Covered	cated area and content the indicated Sand Content Color (Nature_10YR Hue_7.5YR	cator or co Grains; Loca Moist) 5/1 4/6	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	Location	CL		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18	iption (Descr ntration, D=Depl	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	eeded to docur atrix, CS=Covered	cated area and content the indicated Sand Content Color (Nature_10YR Hue_7.5YR	cator or co Grains; Loca Moist) 5/1 4/6	onfirm the tion: PL=Po	e absence of irore Lining, M=Matres  Type D	Location	CL		_	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	iption (Descr ntration, D=Depl Hue_10YR	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	eeded to docuratrix, CS=Covered	cated area and color (Note of the Later	cator or co Grains; Loca Moist) 5/1 4/6	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	Location M M	CL CL	For Problematic	_	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	iption (Descr ntration, D=Depl Hue_10YR ric Soil Field	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (ch	eeded to docuratrix, CS=Covered	cated area and control of the contro	cator or co Grains; Loca Moist) 5/1 4/6	onfirm the tion: PL=Po	e absence of in ore Lining, M=Matr	Location M	CL CL Indicators f	luck (LRR I, J)	: Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	iption (Descr ntration, D=Depl Hue_10YR	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (ch	eeded to docuratrix, CS=Covered	cated area and control of the color (Noted Sand Sand) Research Sandy Research San	d sediment cator or configurations; Locar Moist)  5/1 4/6  anot presented a configuration of presented	nt depos  Onfirm the tion: PL=Period  Mottle  % 15 5	e absence of in ore Lining, M=Matr	Location M	Indicators f A9 - 1 cm M A16 - Coast		: Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	iption (Descr ntration, D=Depl Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth ne etion, RM=Reduced Marix  Color (Moist)  2/1  Indicators (ch	eeded to docuratrix, CS=Covered	cated area and control of the contro	d sediments cator or contracts  Moist) 5/1 4/6  oot presentedox Matrix lucky Mineral	mt depose on firm the tion: PL=Pose on firm	e absence of in ore Lining, M=Matr	Location M M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (chappedon stic in Sulfide in Sulfide in Layers (LRR F)	sparsely veget eeded to docur atrix, CS=Covered  80  neck here if inc	cated area and control the indicators are not stripped in the indicators are not solve the indicators and solve the indicators and solve the indicators and solve the indicators and solve the indicators are not solve the	d sediment cator or configurations; Locar Moist)  5/1  4/6  and present cator or configurations; Locar or configurations;	nt depos  Onfirm the tion: PL=Per  Mottle  % 15 5 t):	e absence of in ore Lining, M=Matr	Location M M	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 Depressio ced Vertic	Soils <sup>1</sup> LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (chappedon stic in Sulfide il Layers (LRR F) ick (LRR FGH)	sparsely veget eeded to docur atrix, CS=Covered    %     80     neck here if inc	cated area and control of the color (Note of the color of	Moist)  5/1  4/6  ator presented a Matrix Surface Matrix ark Surface	nt depos  onfirm the tion: PL=Property of the tion of	e absence of in ore Lining, M=Matr	Location M M	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 Depressioned Vertic Parent Material	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	iption (Descr ntration, D=Depl Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (chapted in Sulfide in Sulfide in Sulfide in Layers (LRR F) ck (LRR FGH) in Sulface in Below Dark Surface in Surface	sparsely veget eeded to docur atrix, CS=Covered    %     80     neck here if income	cated area and control of the indicators are not seen are	d sediment cator or configurations; Locar Moist)  5/1 4/6  dot present cator or configurations; Locar Moist)  5/1 4/6  dot present cator or configurations; Locar Moist)  edox Matrix lucky Mineral Matrix ark Surface Dark Surface	nt depos  onfirm the tion: PL=Period  Mottle  % 15 5 t):	e absence of in ore Lining, M=Matr	Location M M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	Hue_10YR  Hue_10YR  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (chappedon stic in Sulfide in	sparsely veget eeded to docur atrix, CS=Covered    %     80     neck here if income	cated area and control of the indicators are not seed to a seed to	d sediment cator or configurations; Locar Moist)  5/1 4/6  dot present configurations and present cator or configurations are cator or configurations. The configuration is configurated by the configuration of catorial c	nt depos  Onfirm the tion: PL=Per  Mottle % 15 5 t):	e absence of ir ore Lining, M=Matres  Type  D  C	Location M M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressioned Vertic Parent Material	E Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)	
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SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-18  NRCS Hydr	Hue_10YR  Hue_10YR  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 M S3 - 5 cm Mu	ibe to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  Indicators (chapped on Stice on Sulfide of Layers (LRR F) ck (LRR FGH) ed Below Dark Surface of Lacky Mineral Mucky Peat or Peat (LR Cky Peat or Peat (LR)	sparsely veget  eeded to docur atrix, CS=Covered    %     80     neck here if income   compared to the second to t	cated area and control of the indicators are not seed to a seed to	d sediment cator or configurations; Locar Moist)  5/1 4/6  dot present configurations and present cator or configurations are cator or configurations. The configuration is configurated by the configuration of catorial c	nt depos  Onfirm the tion: PL=Per  Mottle % 15 5 t):	e absence of ir ore Lining, M=Matres  Type  D  C	Location M M	Indicators of A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	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)  Ons (LRR H, outside MLRA 72, 73)  Surface	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	: L3R	_			Sample Point: w-155n46w12-b1
<b>VEGETATIO</b>	N (Species identified in all uppercase ar	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.	Fraxinus pennsylvanica	75	Υ	FAC	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					(,
4.					Total Number of Deminent Species Agrees All Strate: 2 (B)
					Total Number of Dominant Species Across All Strata:(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.					
	Total Cover =	75			OBL spp. $\frac{40}{5}$ $x = \frac{40}{10}$ FACW spp. $\frac{5}{5}$ $x = \frac{40}{10}$
	10101 -	70	<del>_</del>		EAC spp
0 - 1 - 10 - 1	O(1) (1) (D(1) (1) (1) (1) (1) (1) (1)				FAC spp. 90
	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.					UPL spp. 0 X 5 = 0
2.					
3.					Total 135 (A) 320 (B)
4.		_			]
5.					Prevalence Index = B/A = 2.370
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herh Stratum (	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Carex retrorsa	40		OBL	1 Toblem Trydrophytic Vegetation (Explain)
			NI		* Indicators of hydric soil and wotland hydrology must be
2.	Elymus virginicus	10	N.	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	5	N	FACW	present, unless disturbed or problematic.
4.	Cryptotaenia canadensis	5	N	<u>FAC</u>	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.					1
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
					Sapinig/Siliub - Woody Planto loss than 6 in. BBH, regardless of holgin.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					1
15.					Woody Vines - All woody vines, regardless of height.
10.	Total Cayor	60			- Troody times in the second s
	Total Cover =	60	<del>_</del>		
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	<u>'</u>				
<del></del>	Total Cover -				
De:	Total Cover =			dans = = :	
Remarks:	The wetland vegetation is dominated by Car	ex retrorsa	i, with Frax	anus penr	isylvanica in the canopy.
Additional F	Remarks:				
Additional	TOTHUL NO.				