WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date: 09/22/14		
Applicant:		Enbridge NTT (DELLICE)	_	Subregion (MLRA or LRR): MLRA 56						County: Marshall		
Investigators Soil Unit:	165A	NTT/BEH/BJC			Subregio	•	or LRR): I Classification:		State: MN			
Landform:	Depression				cal Relief:		i Ciassilication.			Sample Point: w-155n46w2-g1		
Slope (%):	8 - 15%	Latitude	48.27		Longitude:		775	Datum:	<u> </u>	Campio i cinic.		
		nditions on the site typica						✓ Yes	□ No	Section:		
Are Vegetation				disturbed?	,		e normal circun	nstances pre	esent?	Township:		
Are Vegetation			-	blematic?			Yes	□ No ·		Range: Dir:		
SUMMARY OF FINDINGS Hydrophytic Vegetation Present? Yes Hydric Soils Present? Yes												
Hydrophytic Vegetation Present?									Is Present?			
	drology Prese		Yes							nt Within A Wetland? Yes		
Remarks: The wetland is a large shallow marsh that is located in a mowed farm field. The wetland is dominated by hybrid cattail and Canada bluejoint.												
HYDROLOG'	V											
		(0) 1 11 11 1				,		1)				
Wetland Hydrology Indicators (Check all that apply; Minimum of one primary or two secondary required):												
<u>Primary:</u> □	<u>:</u>	Water		П	B11 - Salt	Crust			Secondary:	B6 - Surface Soil Cracks		
	A2 - High Wa				B13 - Aqua					B8 - Sparsely Vegetated Concave Surface		
	A3 - Saturatio	n			C1 - Hydro					B10 - Drainage Patterns		
	B1 - Water Ma				C2 - Dry So			Poots (not till		C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen B3 - Drift Dep	•					spheres on Living duced Iron	Roots (not till	l€ 🔲	C8 - Crayfish Burrows C9 - Saturation Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin N					D2 - Geomorphic Position		
	B5 - Iron Dep				Other (Exp	lain)			✓	D5 - FAC-Neutral Test		
	B7 - Inundation B9 - Water-St	n Visible on Aerial Imagery								D7 - Frost-Heaved Hummocks (LRR F)		
	b9 - water-st	airieu Leaves										
Field Observ	vations:											
Surface Water		Yes	Depth:		(in.)							
Water Table		Yes	Depth:		(in.)			Wetland F	lydrology l	Present? Y		
Saturation Pr		Yes 🗆	Depth:		in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks:	•											
To primary wettand hydrology indicators are present. Hydrology is assumed based on hydrophytic vegetation and landscape position.												
		wetiand hydrology indicat	ors are	present. Try	urology is	assume	a based on nyo	ropnytic ve	gotation and	a la la la capa position.		
SOILS		, ,,					·		gotation	а тапаваро розиют.		
Profile Descri		be to the depth needed to	o docun	nent the indi	cator or co	onfirm th	e absence of ir	ndicators.)	gotation	а тапаваро розиют.		
Profile Descri		, ,,	o docun	nent the indi	cator or co	onfirm th	e absence of ir	ndicators.)	gotation			
Profile Descri		be to the depth needed to etion, RM=Reduced Matrix, CS=	o docun	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr	ndicators.)				
Profile Descri (Type: C=Concer		be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix	o docun =Covered	nent the indi	cator or co Grains; Loca	onfirm th tion: PL=P Mottle	e absence of in ore Lining, M=Matr	idicators.)				
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist)	o docun =Covered %	nent the indi	cator or co Grains; Loca	onfirm th	e absence of in ore Lining, M=Matr	ndicators.)	Texture	Remarks		
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1	% 100	nent the indid Coated Sand C	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of inore Lining, M=Matres es Type	dicators.)	Texture CL			
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Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1	% 100	nent the indid Coated Sand C	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of inore Lining, M=Matres es Type	dicators.)	Texture CL			
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1	% 100	nent the indid Coated Sand C	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of inore Lining, M=Matres es Type	dicators.)	Texture CL			
Profile Descri (Type: C=Concer Depth (In.)	ntration, D=Depl	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1	% 100	nent the indid Coated Sand C	cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottle	e absence of inore Lining, M=Matres es Type	dicators.)	Texture CL			
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1	% 100 90	Color (I	Cator or co Grains; Loca Moist)	Mottle %	e absence of inore Lining, M=Matres es Type	dicators.)	Texture CL			
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Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18	Hue_10YR Hue_10YR	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1	% 100 90	Color (I	Cator or co Grains; Loca Moist) 6/8	Mottle %	e absence of inore Lining, M=Matrees Type C	Location M	Texture CL VFS	Remarks		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he ipedon	% 100 90	Color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped	Cator or co Grains; Loca Moist) 6/8 ot presen	Mottle %	e absence of inore Lining, M=Matrees Type C	Location M	Texture CL VFS Indicators f A9 - 1 cm M A16 - Coast	Remarks For Problematic Soils Juck (LRR I, J) Prairie Redox (LRR F, G, H)		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he ipedon etic	% 100 90	Color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Moist) 6/8 edox Matrix lucky Miner	Mottle % 10 tion: PL=P	e absence of inore Lining, M=Matrees Type C	Location M	Texture CL VFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	Remarks For Problematic Soils Juck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G)		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he ipedon etic on Sulfide	% 100 90 re if ind	Color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Moist) 6/8 ator or co	Mottle % 10 tion: PL=P	e absence of inore Lining, M=Matrees Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S6 F16 - High F	Remarks For Problematic Soils Suck (LRR I, J) Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he ipedon etic in Sulfide Layers (LRR F)	% 100 90	Color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Moist) 6/8 oot presented with the second s	Mottle Mottle 10 t):	e absence of inore Lining, M=Matrees Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F	Remarks For Problematic Soils Suck (LRR I, J) Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73)		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR 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) 2/1 5/1 Indicators (check he ipedon etic on Sulfide	% 100 90 re if ind	Color (I Hue_10YR licators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted	Moist) 6/8 edox Matrix lucky Mineralleyed Matrix Matrix ark Surface	Mottle % 10 t):	e absence of inore Lining, M=Matrees Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	Remarks For Problematic Soils Suck (LRR I, J) Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Seed Vertic		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he dipedon etic in Sulfide Layers (LRR F) ck (LRR FGH) dependence of the surface ark Surface ark Surface	% 100 90 re if inc	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 6/8 and presented Matrix Bleyed Matrix Matrix Matrix ark Surface Dark Surface epressions	Mottle Mottle	e absence of inore Lining, M=Matrees Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	Remarks For Problematic Soils Suck (LRR I, J) Prairie Redox (LRR F, G, H) surface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Seed Vertic Parent Material		
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Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he ipedon etic in Sulfide Layers (LRR F) ek (LRR FGH) in Below Dark Surface eark Surface eark Surface eark Surface eark y Mineral lucky Peat or Peat (LRR G, Heart Surface)	% 100 90 re if inc	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 6/8 aot presented Matrix lucky Mineral Matrix Matrix ark Surface Dark Surface	Mottle Mottle	e absence of inore Lining, M=Matrees Type C	Location M	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	Remarks For Problematic Soils¹ Fluck (LRR I, J) Prairie Redox (LRR F, G, H) Fluiface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) Fixed Vertic Parent Material Shallow Dark Surface Shain in Remarks)		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he dipedon etic in Sulfide Layers (LRR F) et (LRR FGH) de Below Dark Surface eark Surface eark Surface eucky Mineral elucky Peat or Peat (LRR G, Hecky Peat or Peat (LRR F)	% 100 90 re if inc	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 6/8 aot presented Matrix lucky Mineral Matrix Matrix ark Surface Dark Surface	Mottle Mottle	e absence of inore Lining, M=Matrees Type C	Location M	Texture CL VFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	Remarks For Problematic Soils¹ Juck (LRR I, J) Prairie Redox (LRR F, G, H) urface (LRR G) Plains Depressions (LRR H, outside MLRA 72, 73) ced Vertic Parent Material Shallow Dark Surface		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR 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 S3 - 5 cm Mu	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he dipedon etic in Sulfide Layers (LRR F) et (LRR FGH) de Below Dark Surface eark Surface eark Surface eucky Mineral elucky Peat or Peat (LRR G, Hecky Peat or Peat (LRR F)	% 100 90 re if inc	Color (I Hue_10YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 6/8 aot presented Matrix lucky Mineral Matrix Matrix ark Surface Dark Surface	Mottle Mottle	e absence of inore Lining, M=Matrees Type C	Location M	Texture CL VFS Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	Remarks For Problematic Soils¹ Fluck (LRR I, J) Prairie Redox (LRR F, G, H) Fluins Depressions (LRR H, outside MLRA 72, 73) Fred Vertic Flarent Material Shallow Dark Surface Fain in Remarks) Shallow Dark Surface Shallow Dark Surface		
Profile Descri (Type: C=Concer Depth (In.) 0-8 8-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth needed to etion, RM=Reduced Matrix, CS= Matrix Color (Moist) 2/1 5/1 Indicators (check he dipedon etic in Sulfide Layers (LRR F) et (LRR FGH) de Below Dark Surface eark Surface eark Surface eucky Mineral elucky Peat or Peat (LRR G, Hecky Peat or Peat (LRR F)	% 100 90 re if inc	Color (I Hue_10YR Bicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	Moist) 6/8 aot presented Matrix Bleyed Mat	Mottle Mottle	e absence of in ore Lining, M=Matrees Type C C RA 72, 73 of LRF	Location M R H)	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	Remarks For Problematic Soils¹ Fluck (LRR I, J) Prairie Redox (LRR F, G, H) Fluins Depressions (LRR H, outside MLRA 72, 73) Fred Vertic Flarent Material Shallow Dark Surface Fain in Remarks) Shallow Dark Surface Shallow Dark Surface		
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w2-g1			
					<u> </u>			
VEGETATIO	N (Species identified in all uppercase ar	e non-native	species.)					
Tree Stratum ((Plot size: 30 ft. radius)							
	Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet			
1.								
2.					Number of Dominant Species that are OBL, FACW, or FAC:(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.					(* * * * * * * * * * * * * * * * * * *			
8.					Prevalence Index Worksheet			
9.					T VIOLOGO VIOLOGO PARISTA			
10.					Total % Cover of: Multiply by:			
10.		0			Total % Cover of: Multiply by: OBL spp. 70 X 1 = 70 FACW spp. 30 X 2 = 60 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0 UPL spp. 0 X 5 = 0			
	Total Cover =				FACTOR Spp. $\frac{30}{2}$ $\times 2 = \frac{60}{2}$			
0 - 1 - 10 - 1	O(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				FACULTION $0 \times 3 = 0$			
4	Stratum (Plot size: 15 ft. radius)				FACU spp. $0 \times 4 = 0$			
1.					UPL spp0			
2.								
3.					Total 100 (A) 130 (B)			
4.								
5.					Prevalence Index = B/A =			
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 *			
	10141 00001 =							
Lie i Oteat es (District of the self-self-self-self-self-self-self-self-				Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)		· · · · · · · · · · · · · · · · · · ·	ODI	Problem Hydrophytic Vegetation (Explain) *			
1.	Typha X glauca	60	<u>Y</u>	OBL				
2.	Calamagrostis canadensis	30	Y	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Typha angustifolia	10	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.			
13.								
14.					Woody Vines - All woody vines, regardless of height.			
15.					Woody Vines - All woody vines, regardless of fleight.			
	Total Cover =	100	_					
Woody Vine St	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
···	Total Cover =	0						
Remarks:	The wetland vegetation is dominated by hybriding		nd Canada	a hlueioint				
rtemarks.	The welland vegetation is dominated by hybrid	na cattan a	ina Canada	a bluejoilli				
Additional Remarks:								