## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R											08/13/14	
Applicant: Enbridge							County:	Marshall				
Investigators: MRK/BEH					_Subregio	•	State:	MN				
Soil Unit:												
	Landform: Talf Local Relief: LL Sample Point: u-156n46w17-b1											
Slope (%): 0 - 2% Latitude: 48.3293115 Longitude: -96.6022826667 Datum:  Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in remarks) ☑ Yes □ No Section:												
					ar? (If no, exp	1			□ No	Section:		
Are Vegetation			-	disturbed?		Are	e normal circun	•	esent?	Township:	<b>D</b> :	
Are Vegetation			rally pro	blematic?			Yes	□ No		Range:	Dir:	
SUMMARY C			N.L.					Lludria Cai	In Drangert	Ne		
Hydrophytic Vegetation Present?			No No					Is Present?		etland? <b>No</b>		
Wetland Hydrology Present?				n a recently hayed hayfield dominated			by smooth broa			t Within A W		
Remarks:	The upland	sample point is located	iii a rece	entry nayeu r	iayilelu uu	IIIIIaleu	by Sillootti broi	me and time	July grass.	The upland is	adjacent to a wet meadow.	
HYDROLOG	V											
		(0)				,		1)				
	•	icators (Check all that a	pply; Mi	nimum of or	e primary	or two so	econdary requi	red):	C			
<u>Primary:</u> □	<u>:</u>	Nator			B11 - Salt	Cruet			Secondary:	B6 - Surface S	Soil Cracks	
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface	
	A3 - Saturatio			□ C1 - Hydrogen Sulfide Odor □							e Patterns	
	B1 - Water M				C2 - Dry S			_			Rhizospheres on Living Roots (tilled)	
	B2 - Sedimen	•					spheres on Living	Roots (not till	lŧ 🗆	C8 - Crayfish I		
	B3 - Drift Dep B4 - Algal Ma				C4 - Prese		duced Iron		H	D2 - Geomorp	n Visible on Aerial Imagery	
	B5 - Iron Dep				Other (Exp				_	D5 - FAC-Neu		
		n Visible on Aerial Imagery			, , , , , , , , , , , , , , , , , , ,	,				D7 - Frost-Hea	aved Hummocks (LRR F)	
	B9 - Water-St	ained Leaves										
Field Observ												
Surface Wate		Yes	Depth:		_ (in.)			Wetland F	Hydrology I	Present?	N	
Water Table		Yes	Depth:		_ (in.)				.,		· <del>· · ·</del>	
Saturation Pr	resent?	Yes	Depth:		_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Remarks: No primary or secondary hydrological indicators were observed.												
Remarks:	No primary		-		·	, <u>Jections),</u>	ii avaiiabie:					
	No primary		-		·	ections),	ii avaiiabie:					
SOILS		or secondary hydrologic	al indica	tors were ob	served.	,						
SOILS Profile Descri	iption (Descri	or secondary hydrologic	al indica	tors were ob	oserved.	onfirm th	e absence of ir					
SOILS Profile Descri	iption (Descri	or secondary hydrologic	al indica	tors were ob	oserved.	onfirm th	e absence of ir					
SOILS Profile Descri	iption (Descri	or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, CS	al indica	tors were ob	oserved.	onfirm the	e absence of ir ore Lining, M=Matr					
SOILS Profile Descri (Type: C=Concer	iption (Descri	or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, CS	al indica to docur S=Covered	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	Texture		Remarks	
SOILS Profile Descri (Type: C=Concer	iption (Descri	or secondary hydrologic be to the depth needed etion, RM=Reduced Matrix, CS  Matrix Color (Moist)	al indica to docur S=Covered	tors were ob	cator or co	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	iption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Color (Moist)  2/1	to docur S=Covered % 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	Texture FSL		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16	iption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3	to docur S=Covered % 100 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	FSL S		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12	iption (Descri	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3	to docur S=Covered % 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	_		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16	iption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3	to docur S=Covered % 100 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	FSL S		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16	iption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3	to docur S=Covered % 100 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	FSL S		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3 6/4	to docur S=Covered 100 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matrees  Type	ix)	FSL S		Remarks	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20	iption (Descri ntration, D=Depl Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3 6/4	to docur S=Covered 100 100	nent the indi	cator or co	onfirm the	e absence of inore Lining, M=Matr	ix)	FSL S FS	for Problematic		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix.  Matrix Color (Moist)  2/1 4/3 6/4	to docur S=Covered 100 100	nent the indi	cator or co Grains; Loca Moist)	onfirm the	e absence of inore Lining, M=Matrees  Type	Location	FSL S FS	or Problemation		
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol	be to the depth needed etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  6/4  Indicators (check here)	to docur S=Covered 100 100	ment the indid/Coated Sand  Color (  S5 - Sandy R	cator or congrains; Local  Moist)  not presentedox	onfirm the	e absence of inore Lining, M=Matrees  Type	Location	FSL S FS Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR	be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  4/3  6/4  Indicators (check heigheden)	to docur S=Covered 100 100	nent the indi	cator or co Grains; Loca Moist)  not presentedox Matrix	Mottle %	e absence of inore Lining, M=Matrees  Type	Location	FSL S FS Indicators f A9 - 1 cm M A16 - Coast		c Soils <sup>1</sup> (LRR F, G, H)	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  4/3  6/4  Indicators (check here)  ipedon stic in Sulfide	to docur S=Covered 100 100	ment the indid/Coated Sand Color ( S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or co Grains; Loca Moist)  Moist)  not presentedox Matrix Mucky Miner Gleyed Matri	mottle which was al	e absence of inore Lining, M=Matrees  Type	Location	FSL S FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression	c Soils <sup>1</sup> (LRR F, G, H)	
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SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20  NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu	be to the depth needed etion, RM=Reduced Matrix.  Color (Moist)  2/1  4/3  6/4  Indicators (check he ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH)	% 100 100 ere if inc	color ( S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D	cator or concentration of presentation of pres	mottle which was all and a second conformation which was all and a second conformation with the conformation w	e absence of inore Lining, M=Matrees  Type	Location	FSL S FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-12 12-16 16-20  NRCS Hydr	Hue_10YR 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	be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  4/3  6/4  Indicators (check here)  ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	% 100 100 ere if inc	color ( S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted	cator or configurations; Local  Moist)  Moist)  not present dedox Matrix Mucky Miner Gleyed Matrix Mucky Miner Gleyed Matrix Mat	mottle which was all and a second conformation which was all and a second conformation with the conformation w	e absence of inore Lining, M=Matrees  Type	Location	FSL S FS  Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	c Soils <sup>1</sup> (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: u-156n46w17-b1		
_					•		
VEGETATIO	、 .	e non-native	species.)				
Tree Stratum (	(Plot size: 30 ft. radius) Species Name	% Cover	Dominant	Ind.Status	Dominance Test Worksheet		
1.	<u>oposios rvarno</u>	<u>70 00001</u>	Dominaria	<u>ma.otatas</u>			
2.					Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)		
3.							
4.					Total Number of Dominant Species Across All Strata:(B)		
5.							
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)		
7.							
8.					Prevalence Index Worksheet		
9.					Total % Cover of: Multiply by:		
10.		0			OBL spp.		
	Total Cover =	U	_		FACW spp. 0		
Sanling/Shrub S	Stratum (Plot size: 15 ft. radius)				$\begin{array}{cccccccccccccccccccccccccccccccccccc$		
1.	ettatam (1 lot size. 10 tt. radius)				UPL spp. $\frac{40}{90}$ $\frac{40}{x}$ $\frac{40}{50}$ $\frac{100}{450}$		
2.							
3.					Total 135 (A) 630 (B)		
4.							
5.					Prevalence Index = B/A = <b>4.667</b>		
6.							
7.							
8.					Hydrophytic Vegetation Indicators:		
9.					Rapid Test for Hydrophytic Vegetation		
10.	Total Cayer	0			Dominance Test is > 50%		
	Total Cover =	0			Prevalence Index is ≤ 3.0 *		
Llowb Ctrotures /	District F ft radius)				Morphological Adaptations (Explain) *		
1.	Plot size: 5 ft. radius)  Bromus inermis	65		UPL	Problem Hydrophytic Vegetation (Explain) *		
2.	Phleum pratense	45		FACU			
3.	Medicago sativa	25	N	UPL			
4.	medicage called			<u> </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.							
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.					$\dashv$		
14. 15.					Woody Vines - All woody vines, regardless of height.		
15.	Total Cover =	135			- Woody Villes - 7 in woody Villes, Togardiess of Holgrid.		
	Total Cover	130	_				
Woody Vine St	ratum (Plot size: 30 ft. radius)						
1.	Tatam (Flot size: Cont. radias)						
2.							
3.					Hydrophytic Vegetation Present? N		
5.							
4.							
	Total Cover =						
Remarks:	The upland sample point is dominated by sm	nooth brom	e and time	othy grass	SS.		
Additional R	Remarks:						