## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/24/14
Applicant:		Enbridge							County:	Marshall		
Investigators	¥					Subregion (MLRA or LRR): MLRA 56					State:	MN
Soil Unit:	165A		NWI Classification:					1				
Landform:	Depression		ocal Relief: CL					_ Sample Poin	t: w-156n46w28-a1			
	3 - 7%											
Slope (%):			Latitude: 4			-			Datum:			
Are climatic/	• •	onditions on the sit				ar? (If no, exp	1			□ No	Section:	
Are Vegetati	on 🛛 Soi	I □, or Hydrology	⊐significa	antly o	disturbed?		Are	e normal circum	istances pre	esent?	Township:	
Are Vegetati	on 🗆 Soi	□, or Hydrology		y prob	lematic?			☑ Yes	□ No		Range:	Dir:
SUMMARY (				<i>,</i>							0	
			X	100					Lludria Sail	o Drogont?	Vee	
Hydrophytic	•			Yes		-			Hydric Soil			
Wetland Hyd				Yes							nt Within A W	
Remarks:	The wetlan	d is a wet meadow	v located w	<i>w</i> ithin a	a roadside o	ditch conta	aining sp	arse vegetation	dominated	by Elymus	repens and	Equisetum arvense.
								-			-	
HYDROLOG	V											
IIIDKOLOG												
Wetland Hy	/drology Ind	icators (Check al	I that apply	ly; Min	nimum of on	e primary	or two se	econdary requir	ed):			
Primary	•••	,							,	Secondary:		
						B11 - Salt Crust						Soil Cracks
						B13 - Aqua	atic Fauna				B8 - Sparsely	Vegetated Concave Surface
$\checkmark$	A3 - Saturatio					C1 - Hydro					B10 - Drainag	
	B1 - Water M	larks				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimer	nt Deposits						spheres on Living	Roots (not tille		C8 - Crayfish	
	B3 - Drift Dep	osits				C4 - Prese			,		•	on Visible on Aerial Imagery
	B4 - Algal Ma					C7 - Thin M	/luck Surfa	ace			D2 - Geomor	<b>U 1</b>
	B5 - Iron Dep					Other (Exp	lain)				D5 - FAC-Nei	
		on Visible on Aerial In	nagerv		—		/					aved Hummocks (LRR F)
		tained Leaves	5,									
_												
Field Obser	vations:											
Surface Wat	er Present?	Yes 🗹	C	Depth:	1	(in.)			Watland U	vdrology	Brocont?	Y
Water Table	Present?	Yes 🗆	C	Depth:		(in.)			Wetland H	iyarology i	Fresent?	Ť
Saturation P		Yes 🛛		Depth:	0	- (in.)						
Cataration		100 =	E		•	()						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (	stream gauge, mon	moring wen	ii, aeria	al photos, pro	evious insp	ections),	if available:				
	,		<u> </u>	-	•	•			re roughly a	n inch deel	D.	
Remarks:	,	aturated throughou	<u> </u>	-	•	•			re roughly a	n inch deel	p.	
Remarks:	,		<u> </u>	-	•	•			re roughly a	n inch deel	р.	
Remarks: SOILS	Soils are sa	aturated throughou	ut the wetla	and w	ith scattered	d pockets	of standi	ing water that a		n inch deel	p.	
Remarks: SOILS Profile Descr	Soils are sa	aturated throughou	ut the wetla	and w	ith scattered	d pockets of	of standi	ing water that a e absence of in	dicators.)	n inch deel	р.	
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Remarks: SOILS Profile Descr	Soils are sa	ibe to the depth ne letion, RM=Reduced M	ut the wetla	and w	ith scattered	d pockets of	of standi	ing water that a e absence of in ore Lining, M=Matri	dicators.)	n inch deel	p.	
Remarks: SOILS Profile Descr	Soils are sa	aturated throughou	ut the wetla	and w	ith scattered	d pockets of	of standi	ing water that a e absence of in ore Lining, M=Matri	dicators.)	n inch deel	p.	
Remarks: SOILS Profile Descr (Type: C=Conce	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix	ut the wetla	and w docum overed/	ith scattered ent the indi Coated Sand (	d pockets of cator or co Grains; Locat	of standi	ing water that a e absence of in ore Lining, M=Matri	dicators.)		p.	Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix	ut the wetla	and w docum overed/	ith scattered ent the indi Coated Sand (	d pockets of cator or co Grains; Locat	of standi	ing water that a e absence of in ore Lining, M=Matri	dicators.)		p.	Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d fatrix, CS=Co	and w	ith scattered ient the indi Coated Sand ( Color () Color ()	d pockets of cator or co Grains; Locat Moist)	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture	or Problemat	ic Soils <sup>1</sup>
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d fatrix, CS=Co	and w	ith scattered ient the indi Coated Sand C Color ( Color ( cators are r S5 - Sandy R	d pockets of cator or co Grains; Locat Moist) Moist) not present edox	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture <u>Indicators f</u> A9 - 1 cm M	<b>or Problemat</b> luck (LRR I, J)	ic Soils <sup>1</sup>
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Soils are sa	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d fatrix, CS=Co	and w	ith scattered Coated Sand C Color ( Color ( cators are r S5 - Sandy R S6 - Stripped	d pockets of cator or co Grains; Locat Moist) Moist) not present edox Matrix	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Cost F	<b>or Problemat</b> luck (LRR I, J) Prairie Redox (	ic Soils <sup>1</sup> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Soils are sa iption (Descr ntration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d fatrix, CS=Co	and w	ith scattered ient the indi Coated Sand C Color (I Color (I cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	d pockets of cator or co Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S	<b>or Problemat</b> luck (LRR I, J) Prairie Redox ( urface (LRR G	ic Soils <sup>1</sup> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Soils are sa iption (Descr ntration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d fatrix, CS=Co	and w	ith scattered ient the indi Coated Sand of Color ( Color ( Color ( S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	d pockets of cator or co Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Bleyed Matrix	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F	<b>for Problemat</b> luck (LRR I, J) Prairie Redox ( urface (LRR G Plains Depress	ic Soils <sup>1</sup> LRR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Soils are sa iption (Descr ntration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist)	eeded to d fatrix, CS=Co	and w	ith scattered ient the indi Coated Sand C Color (I Color (I Color Sandy R S5 - Sandy R S5 - Sandy R S6 - Stripped F1 - Loamy C F2 - Loamy C F3 - Depleted	d pockets of cator or co Grains; Locat Moist) Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High F F18 - Reduc	image: constraint of the second state of the second sta	ic Soils <sup>1</sup> LRR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.)  NRCS Hyde	Soils are sa iption (Descr ntration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	ibe to the depth ne letion, RM=Reduced M Matrix Color (Moist) Color (Moist) I Indicators (ch bipedon stic In Sulfide Layers (LRR F) ick (LRR FGH) ed Below Dark Surfac Dark Surface lucky Mineral Mucky Peat or Peat (LR	LRR G, H)	and w	ith scattered ith scattered Coated Sand ( Color ( Color ( Color ( Color ( S5 - Sandy R S6 - Stripped F1 - Loamy R S6 - Stripped F1 - Loamy R F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	d pockets of cator or co Grains; Locat Moist) Moist) Moist) ot present edox Matrix Matrix Matrix Jacky Minera Sleyed Matrix Jacky Surface Dark Surface	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) x) Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla	<b>Tor Problemat</b> <b>Tor Problemat</b> Juck (LRR I, J) Prairie Redox ( urface (LRR G Plains Depress ced Vertic Parent Material Shallow Dark ain in Remarks hydrophytic vegeta	ic Soils <sup>1</sup> LRR F, G, H) ) ions (LRR H, outisde MLRA 72, 73) Surface )
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hyde NRCS Hyde C C C C C C C C C C C C C	Soils are sa iption (Descr ntration, D=Dep ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type Soils were	ibe to the depth nelletion, RM=Reduced M Matrix Color (Moist) Color (Moist) I Indicators (ch bipedon stic In Sulfide d Layers (LRR F) ick (LRR FGH) ed Below Dark Surface lucky Mineral Aucky Peat or Peat (LR bileyed Matrix	eeded to d datrix, CS=Co heck here	and w	ith scattered ith scattered Coated Sand C Color ( Color ( Colo	d pockets of cator or co Grains; Locat Moist) Moist) Moist) not present edox Matrix Mucky Minera Bleyed Matrix Jark Surface Dark Surface Dark Surface Dark Surface	of standi	e absence of in ore Lining, M=Matri es Type	dicators.) ×) Location	Texture Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark So F16 - High F F18 - Reduc TF2 - Red P TF12 - Very Other (Expla <sup>1</sup> Indicators of h unless disturbe	i       i         i       i	ic Soils <sup>1</sup> LRR F, G, H) ) ions (LRR H, outisde MLRA 72, 73) Surface ) ation and wetland hydrology must be present,

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R				Sample Point: w-156n46w28-a1
		non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius) Species Name	<u>% Cover</u>	Dominant	Ind.Status	Dominance Test Worksheet
1.		<u>78 COVEL</u>	Dominant	<u>ind.Otatus</u>	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (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: 66.7% (A/B)
7.					
8.	<u></u>				Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 30 $x 1 = 30$
	 Total Cover =	0			FACW spp. 5 x $2 = 10$
	-		_		FAC spp.15x3 =45FACU spp.25x4 =100
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $25$ x 4 = 100
1.					UPL spp. 0 $x 5 = 0$
2.					
3.					Total 75 (A) 185 (B)
4.					
5.					Prevalence Index = B/A = 2.467
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) *
Herb Stratum	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Elymus repens	25	Y	FACU	
2.	Equisetum arvense	15	Y	FAC	* Indicators of hydric soil and wetland hydrology must be
3.	Juncus bufonius	15	Y	OBL	present, unless disturbed or problematic.
4.	Phragmites australis	5	N	FACW	Definitions of Vegetation Strata:
5.	Schoenoplectus tabernaemontani	5	N	OBL	
6	Alisma triviale	5	N	OBL	<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Juncus brevicaudatus	5	N	OBL	height (DBH), regardless of height.
8.					
9.					<b>Sapling/Shrub -</b> Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					
12.					<b>Herb</b> - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					Mondy Vince All woody vince regardloss of beight
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover = _	75	_		
	tratum (Plot size: 30 ft. radius)				
<u> </u>					
<u> </u>					Hydrophytic Vagetation Procent?
<u> </u>					Hydrophytic Vegetation Present? Y
<u> </u>	<u> </u>				
4.	Total Cover =	0			
Remarks:		0			
nomains.					
	Domorko				
Additional F		factor	• <b>T</b> la = 10.01	ا دادهما	residente al la versione de la Carvie a transmissione de
The wetland	vegetation is sparse due to the presence of sur	race wate	i. i ne wet	liand IS do	minated by Elymus repens and Equisetum arvense.