## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/30/14
Applicant:		Enbridge								County:	Kittson
Investigators		BCS/BEH			Subregio	n (MLRA o		MLRA 56		State:	MN
Soil Unit:	1248A			_			Classification	:		-	
Landform:	Depression				cal Relief:					Sample Point:	w-160n50w14-a2
Slope (%):	0 - 2%		Latitude: 48.6			-97.0846		Datum:		-	
		onditions on the site			ar? (If no, exp				□ No	Section:	
Are Vegetati		Or Hydrology		y disturbed?		Are	normal circur	•	esent?	Township:	
Are Vegetati		G or Hydrology	Liturally pro	oblematic?			Yes	□No		Range:	Dir:
SUMMARY O									_		
Hydrophytic			Yes		-			Hydric Soil			
Wetland Hyd			Yes							t Within A W	
Remarks:	The wetland	d is a reed canary	grass domina	ated fresh wet	t meadow	located in	a roadside di	itch adjacent	t to a minim	num-maintena	ance dirt county road.
HYDROLOG	Y										
Wetland Hy	drology Ind	icators (Check all	that apply; N	linimum of or	ne primary	or two see	condary requi	ired):			
Primary	<u>:</u>							-	Secondary:		
A1 - Surface Water					B11 - Salt					B6 - Surface S	
✓ ✓	A2 - High Wa A3 - Saturatio				B13 - Aqua		Orlan			B8 - Sparsely B10 - Drainage	Vegetated Concave Surface
	B1 - Water M			C1 - Hydrogen Sulfide Odor							Rhizospheres on Living Roots (tilled)
	B2 - Sedimer						heres on Living	Roots (not till			
	B3 - Drift Dep	osits			C4 - Prese	nce of Redu	uced Iron	(			Visible on Aerial Imagery
	B4 - Algal Ma					Auck Surfac	e		1	D2 - Geomorp	
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
	B/ - Inundation	on Visible on Aerial Im tained Leaves	lagery							D7 - Frost-Hea	aved Hummocks (LRR F)
	D9 - Water-O	tailleu Leaves									
Field Obser	votional										
		Vec 🗖	D		(im )						
Surface Wat			Depti		(in.)			Wetland H	ydrology	Present?	Y
Water Table		Yes 🗹	Depti		(in.)						
Saturation P	resent?	Yes 🗹	Dept	n: <mark>0</mark>	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (	stream gauge, moni	itoring well, ae	rial photos, pr	evious insp	pections), if	f available:				
Describe Rec Remarks:		stream gauge, moni ter is present to a c	-		evious insp	pections), if	f available:				
Remarks:			-		evious insp	pections), it	f available:				
Remarks:	Surface wa	ter is present to a o	depth of 5 inc	hes.		·					
Remarks: SOILS Profile Descr	Surface wa	ter is present to a classifier is present to a classification in the depth ne	depth of 5 inc	hes. Iment the indi	cator or co	onfirm the	absence of ir				
Remarks: SOILS Profile Descr	Surface wa	ter is present to a o	depth of 5 inc	hes. Iment the indi	cator or co	onfirm the	absence of ir				
Remarks: SOILS Profile Descr	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma	depth of 5 inc	hes. Iment the indi	cator or co	onfirm the tion: PL=Por	absence of ir e Lining, M=Mat				
Remarks: SOILS Profile Descr (Type: C=Conce	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma Matrix	depth of 5 inc eeded to docu atrix, CS=Covere	ment the indi	cator or co Grains; Loca	onfirm the tion: PL=Por Mottles	absence of in re Lining, M=Mat	rix)	Touturo		Pomarka
Remarks: SOILS Profile Descr	Surface wa	ter is present to a d ibe to the depth ne etion, RM=Reduced Ma	depth of 5 inc	hes. Iment the indi	cator or co Grains; Loca	onfirm the tion: PL=Por	absence of ir e Lining, M=Mat		Texture		Remarks
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa	ter is present to a dibe to the depth neetion, RM=Reduced Matrix Color (Moist)	eded to docu atrix, CS=Covere %	thes.	Moist)	Mottles	absence of ir re Lining, M=Mat S Type	Location	Indicators 1 A9 - 1 cm M	luck (LRR I, J)	: Soils <sup>1</sup>
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch	eeded to docu atrix, CS=Covere %	thes.	Moist) Moist) mot presen	mfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Mat S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	<mark>: Soils1</mark> RR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa iption (Descr Intration, D=Depi intration, D=Depi intra	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Color (Moist) Indicators (ch spedon stic	eeded to docu atrix, CS=Covere % eck here if in	thes.	Cator or cc Grains; Loca Moist) mot presen Redox Matrix Jucky Miner	motion: PL=Por Mottles	absence of ir re Lining, M=Mat S Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si	luck (LRR I, J) Prairie Redox (L urface (LRR G)	<u>2 Soils1</u> RR F, G, H)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch stic n Sulfide	eeded to docu atrix, CS=Covere %	ches.	Moist) Moist) not presen Redox Matrix Mucky Miner.	motion: PL=Por Mottles	absence of ir re Lining, M=Mat S Type	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	<mark>: Soils1</mark> RR F, G, H)
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr NRCS Hydr U	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Indicators (ch stic n Sulfide	eeded to docu atrix, CS=Covered %	ches.	Cator or co Grains; Loca Moist) Moist) not presen Redox Matrix Jucky Miner. Gleyed Matri Sleyed Matrix Dark Surface	Mottles	absence of ir re Lining, M=Mat S Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	2 <b>Soils<sup>1</sup></b> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73)
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr NRCS Hydr C	Surface wa	ter is present to a dibe to the depth ne etion, RM=Reduced Ma Matrix Color (Moist) Color (Moist) Indicators (ch ipedon stic n Sulfide I Layers (LRR FG) ck (LRR FGH) ck (LRR FGH) ck Below Dark Surface	eee E	hes. ment the indi color ( Color ( Color ( dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Loca Moist) Moist) not presen Redox Mucky Miner. Bleyed Matrix Mucky Miner. Bleyed Matrix Matrix Surface d Dark Surface b Dark Surface	monfirm the tion: PL=Por Mottles	absence of ir re Lining, M=Mat S Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material	2 <b>Soils<sup>1</sup></b> RR F, G, H) DNS (LRR H, outisde MLRA 72, 73)
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Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) NRCS Hydr NRCS Hydr C C C C C C C C C C C C C	Surface wa iption (Descr ntration, D=Depi ic Soil Field A1- Histosol A2 - Histic Ep A3- Black Hi A4 - Hydroge A5 - Stratified A5 - Stratified A1- Hydroge A5 - Stratified A5 - Stratified A5 - Stratified A7 - Thick D S2 - 2.5 cm Mu S3 - 5 cm Mu S4 - Sandy G r Type: Because of	ter is present to a discrete spresent spresent spresent spresent spresent spresent spresent spresent (LRR FGH) and Below Dark Surface lucky Mineral Aucky Peat or Peat (LR ky Paat or Peat or Peat (LR ky Paat or Peat or Peat or Peat (LR ky Paat or Peat o	depth of 5 inc eeded to docu atrix, CS=Covered % % % % % % % % % % % % % % % % % % %	thes.	Moist) Moist)	tion: PL=Por	absence of in re Lining, M=Mat s Type	Location Location I I I I I I I I I I I I I I I I I I I	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla <sup>1</sup> Indicators of f unless disturbe	uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ved Vertic 'arent Material Shallow Dark S ain in Remarks) hydrophytic vegetal ed or problematic.	2 Soils <sup>1</sup> RR F, G, H) DNS (LRR H, outlade MLRA 72, 73) Surface

## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	L3R				Sample Point: w-160n50w14-a2
VEOFTATIO					
VEGETATIO	N (Species identified in all uppercase an Plot size: 30 ft. radius)	e non-native	species.)		
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)
3.					Tatal Music and Device at Occasion Among All Objectory (D)
<u>4.</u> 5.	<u> </u>				Total Number of Dominant Species Across All Strata: 1 (B)
6.	<u> </u>				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.					OBL spp. 2 x 1 = 2
	Total Cover =	0	_		FACW spp. 80 x 2 = 160
					FAC spp. 0 $x 3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0 UPL spp. 0 x 5 = 0
1. 2.	<u> </u>				
3.					Total 82 (A) 162 (B)
4.					
5.					Prevalence Index = B/A = 1.976
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Total Cover =	0			X Dominance Test is > 50%
		U	_		X Prevalence Index is ≤ 3.0 *
Herb Stratum (	Plot size: 5 ft. radius)				Morphological Adaptations (Explain) * Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	60	Y	FACW	
2.	Rumex stenophyllus	15	N	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Symphyotrichum lanceolatum	5	N	FACW	present, unless disturbed or problematic.
4.	Rorippa palustris	2	N	OBL	Definitions of Vegetation Strata:
5.					T
6 7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 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.	Total Cover -	00			Woody Villes - All Woody Villes, regardless of height.
	Total Cover =	62	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Total Cover =	0			
Remarks:	The wetland is dominated by reed canary gra				
	set and the definition by rood building gre				
Additional R	emarks:				