## WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R								Date:	07/02/14	
Applicant:		Enbridge								County:	Kittson	
Investigators		EAB/RAJ			Subregio		•	MLRA 56		State:	MN	
Soil Unit:	I132A						Classification	:		4		
Landform:	Talf				cal Relief:					Sample Point:	u-159n49w23-f2	
	0 - 2%		Latitude: 48.5			-96.9333		Datum:		4		
	, ,	nditions on the site	71	,	ar'? (If no, exp			□Yes	☑ No	Section:		
Are Vegetation		or Hydrology				Are	normal circur	•	esent?	Township:		
Are Vegetation		☐ or Hydrology	<b>∟</b> aturally pr	oblematic?			Yes	□No		Range:	Dir:	
SUMMARY C												
Hydrophytic \			No		_				Is Present?			
Wetland Hyd			No				<del></del>			nt Within A W		
Remarks:	The sample	site is located in a	a planted, tille	ed wheat field	that drain	s into an a	adjacent road	side ditch. F	Recent heav	yy rains have	affected the area.	
HYDROLOGY	Y											
Wetland Hy	drology Ind	icators (Check all	I that apply; M	linimum of or	e primary	or two sec	condary requi	red):				
Primary:				_		_			Secondary			
	A1 - Surface				B11 - Salt					B6 - Surface S		
	☐ A2 - High Water Table ☐ A3 - Saturation				☐ B13 - Aquatic Fauna ☐ C1 - Hydrogen Sulfide C					<ul><li>□ B8 - Sparsely Vegetated Concave Surface</li><li>□ B10 - Drainage Patterns</li></ul>		
	B1 - Water M									☐ C3 - Oxidized Rhizospheres on Living Roots (tilled)		
	B2 - Sedimen			☐ C3 - Oxidized Rhizospheres on Living Roots (not tille☐ C4 - Presence of Reduced Iron☐ □							Burrows	•
	B3 - Drift Dep										Nisible on Aerial Imagery	
	B4 - Algal Ma B5 - Iron Dep				C7 - Thin N Other (Exp		ce			D2 - Geomorp D5 - FAC-Neu		
		บรแร In Visible on Aerial Im	nagery	ш	Other (Exp	iaiii)					aved Hummocks (LRR F)	
I =	B9 - Water-St		.ago.y						_	27 110011100	(2 )	
Field Observ	vations:											
Surface Water	er Present?	Yes 🔲	Dept	n:	(in.)							
Water Table	Present?	Yes $\square$	Dept	n: n:	(in.)			vvetiana F	Hydrology	Present?	N	
Saturation Pr	resent?	Yes $\square$	Dept		(in.)						_	
Describe Reco	orded Data (s	tream gauge moni	itoring well as	rial nhotos nr	evious insr	nections) is	f available:					
		stream gauge, moni			evious insp	pections), i	f available:					
		stream gauge, moni rs of wetland hydro			evious insp	pections), i	f available:					
Remarks:					evious insp	pections), i	f available:					
Remarks: SOILS	No indicato		ology were ob	served.				ndicators.)				
Remarks:  SOILS Profile Descri	No indicator	rs of wetland hydro	ology were objected to docu	served.	cator or co	onfirm the	absence of in					
Remarks:  SOILS Profile Descri	No indicator	be to the depth ne	ology were objected to docu	served.	cator or co	onfirm the tion: PL=Por	absence of in					
Remarks:  SOILS Profile Descri	No indicator	rs of wetland hydro	eeded to docu	served.	cator or co	onfirm the	absence of in					
Remarks:  SOILS Profile Descri	No indicator	be to the depth ne	ology were objected to docu	served.	cator or co Grains; Loca	onfirm the tion: PL=Por	absence of in		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu	ment the inded/Coated Sand	cator or co Grains; Loca	onfirm the tion: PL=Por Mottles	absence of in re Lining, M=Mat s	rix)	Texture C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the inded/Coated Sand	cator or co Grains; Loca Moist)	onfirm the tion: PL=Por Mottles	absence of in re Lining, M=Mat s	rix)			Remarks	
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Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18	No indicator ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the ind ed/Coated Sand  Color ( Hue_10YR Hue_10YR	Cator or co Grains; Local Moist) 4/6 2/1	onfirm the tion: PL=Por  Mottles  %  2  10	absence of ir re Lining, M=Mat s Type C C	Location  M M	C C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18	No indicator ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the ind ed/Coated Sand  Color ( Hue_10YR Hue_10YR	Cator or co Grains; Local Moist) 4/6 2/1	onfirm the tion: PL=Por  Mottles  %  2  10	absence of ir re Lining, M=Mat s Type C C	Location  M M	C C C		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18 11-18	ption (Description), D=Deption (Description),	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere % 100 86	ment the ind med/Coated Sand  Color ( Hue_10YR Hue_10YR Hue_2.5Y	Cator or cc Grains; Loca Moist) 4/6 2/1 7/1	Mottles  2 10 2	absence of ir re Lining, M=Mat s Type C C	Location  M M	C C C		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18  NRCS Hydri	ption (Description), D=Deption (Description),	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  3/1	eeded to docu atrix, CS=Coverd % 100 86	ment the ind di/Coated Sand  Color (  Hue_10YR Hue_10YR Hue_2.5Y  dicators are	cator or co Grains; Local Moist) 4/6 2/1 7/1	Mottles  2 10 2	absence of ir re Lining, M=Mat s Type C C D	Location  M M M	C C C	for Problematic		
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18 11-18	Ption (Description	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 3/1  Indicators (ch	eeded to docuatrix, CS=Covere  % 100 86 neck here if ir	ment the ind ed/Coated Sand  Color ( Hue_10YR Hue_2.5Y  dicators are  \$\$5 - Sandy F \$\$36 - Stripped \$\$15 - Loamy N	Cator or cc Grains; Loca  Moist)  4/6 2/1 7/1  not presen  Redox Matrix Mucky Minera	Mottles  Mottles  Mottles  2  10  2  tt):	absence of ir re Lining, M=Mat s Type C C D	Location  M M M	C C C C Indicators: A9 - 1 cm N A16 - Cost I S7 - Dark S	luck (LRR I, J) Prairie Redox (L urface (LRR G)	<del>: Soils<sup>1</sup></del> RR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18 11-18	ption (Descrintration, D=Depi Hue_10YR Hue_2.5Y  A1- Histosol A2 - Histic Ep A4 - Hydrogei	be to the depth ne etion, RM=Reduced Me  Matrix Color (Moist)  2/1  3/1  Indicators (ch	eeded to docu atrix, CS=Covered % 100 86 neck here if in	ment the ind ed/Coated Sand  Color (  Hue_10YR Hue_10YR Hue_2.5Y  dicators are  \$55 - Sandy Fr \$56 - Stripper \$57 - Loamy (  F2 - Loamy (	cator or co Grains; Local Moist)  4/6 2/1 7/1  not presen	Mottles  Mottles  Mottles  2  10  2  tt):	absence of ir re Lining, M=Mat s Type C C D	Location M M M	Indicators:  A9 - 1 cm M 3 - 7 - Dark S 3 F 16 - High F	fluck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18  NRCS Hydri	ption (Descriptation, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 3/1 Indicators (ch	eeded to docu atrix, CS=Coverd % 100 86 neck here if in	ment the ind ad/Coated Sand  Color (  Hue_10YR Hue_10YR Hue_2.5Y  dicators are  \$\$5 - \$\$ \$andy \$\$F\$ \$\$ \$\$6 \$\$ \$\$f\$ \$\$1 \$\$ \$\$1 \$\$1 \$\$2 \$\$2	Cator or co Grains; Locar Moist)  4/6 2/1 7/1  not presen ledox Matrix Mucky Minera Sleyed Matrix Matrix Muky Minera	Mottles  Mottles  2 10 2 t):	absence of ir re Lining, M=Mat s Type C C D	Location  M M M	Indicators   A9 - 1 cm M A16 - Cost   S7 - Dark S7   F16 - High F18 - Reduce	fluck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic	<del>: Soils<sup>1</sup></del> RR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18 11-18  NRCS Hydri	ption (Descritration, D=Depl  Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Me  Matrix Color (Moist)  2/1  3/1  Indicators (ch	eeded to docu atrix, CS=Coverning 100 86 neck here if in	ment the ind ed/Coated Sand  Color (  Hue_10YR Hue_10YR Hue_2.5Y  dicators are  \$55 - Sandy Fr \$56 - Stripper \$57 - Loamy (  F2 - Loamy (	Cator or co Grains; Local  Moist)  4/6 2/1 7/1  not presen  ledox Matrix Mucky Miner: Gleyed Matrix Jucky Miner: Sleyed Matrix Jucky Miner: Sleyed Matrix Jucky Miner: Sleyed Matrix	Mottles  Mottles  2  10  2  tt):	absence of ir re Lining, M=Mat s Type C C D	Location  M M M	Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High F F16 - Reduc	fluck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	Soils <sup>1</sup> RR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18 11-18  NRCS Hydri	ption (Description)  ption (Description)  ption (Description)  hue_10YR  Hue_10YR  Hue_2.5Y  ic Soil Field  A1- Histosol  A2- Histic Ep  A3- Black His  A4- Hydrogel  A9- 1 cm Mu  A11- Deplete  A12- Thick D  S1- Sandy M  S2- 2.5 cm M	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 3/1  Indicators (chaipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ark Surface lucky Mineral lucky Peat or Peat (LI	eeded to docuatrix, CS=Covern  % 100 86 neck here if ir	ment the ind ed/Coated Sand  Color ( Hue_10YR Hue_10YR Hue_2.5Y  dicators are   3 S5 - Sandy F 3 S6 - Stripped 3 F1 - Loamy ( 1 F3 - Depleted 1 F6 - Redox E 1 F7 - Depleted 1 F8 - Redox E	Cator or co Grains; Locar Moist)  4/6 2/1 7/1  not presen  dedox Matrix Mucky Minera Gleyed Matrix J Matrix ark Surface d Dark Surface d park Surface depressions	Mottles  Mottles  2  10  2  tt):	absence of irre Lining, M=Mats s Type C C D	Location  M M M C C C C C C C C C C C C C C C C	Indicators ( A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ced Vertic Parent Material Parent Material Shallow Dark S ain in Remarks)	E Soils <sup>1</sup> RR F, G, H)  DIS (LRR H, outisde MLRA 72, 73)  Surface	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18 11-18 11-18  NRCS Hydri	Ption (Description	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 3/1  Indicators (chairpedon stric in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral Lucky Peat or Peat (LRK) P	eeded to docuatrix, CS=Covern  % 100 86 neck here if ir	ment the ind ad/Coated Sand  Color ( Hue_10YR Hue_10YR Hue_2.5Y  dicators are i  \$5 - Sandy F \$6 - Stripped F1 - Loamy ( F2 - Loamy ( F3 - Depleted F6 - Redox E F7 - Depleted F8 - Redox E F6 - Redox E F7 - Depleted F8 - Redox E F7 - Depleted F8 - Redox E F7 - Depleted F8 - Redox E	Moist)  4/6 2/1 7/1  not presen  dedox Matrix Mucky Minera Bleyed Matrix di Matrix ark Surface di Dark Surfa peressions ains Depres	Mottles  Mottles  2  10  2  tt):	absence of ir re Lining, M=Mat s Type C C D	Location  M M M C C C C C C C C C C C C C C C C	Indicators of unless disturbed	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ced Vertic Parent Material	E Soils <sup>1</sup> RR F, G, H)  DIS (LRR H, outisde MLRA 72, 73)  Surface	esent,
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w23-f2
VEGETATIO	N (Species identified in all uppercase are	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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 1 (B)
5.					Total Number of Bollinalit Opecies Across All Strate.
6.					Descent of Deminent Coasian That Are CRI. FACIN as FAC. 0.00/ (A/D)
					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 0 x 1 = 0
	Total Cover =	0			FACW spp. 0 x 2 = 0
	•				FAC spp. 0 x 3 = 0
Sanling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.	Ottatum (1 lot 3/20. 10 it. radius)				UPL spp. 90
2.					οι Ε σρρ. <u>συ</u> Λ Ο – <u>450</u>
3.					Total 90 (A) 450 (B)
4.					
5.					Prevalence Index = B/A = 5.000
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					
10.	Total Cours	0			Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	85	Υ	NI	
2.	Glycine max	5	N	NI	* Indicators of hydric soil and wetland hydrology must be
3.					present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.				_	
6					Tree
7.					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
					g (= - · /), · -g · · · · · · · · · · · · · ·
8.				-	District Annual Control of the Contr
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.					
15.					Woody Vines - All woody vines, regardless of height.
13.	Total C	00			,
	Total Cover =	90	_		
	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The vegetation is mostly planted wheat, with		neane non	ning up ac	s well
i Cilial No.	The vegetation is mostly planted wheat, with	a IEW SUY	υσαιίο μυμ	ping up as	) WOII.
Additional F	Remarks:				
l					