## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/02/14	
Applicant:		Enbridge								County:	Kittson	
Investigators	<b>3</b> :	EAB/RAJ			Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:												
Landform:	Talf			_ Lo	cal Relief:	LL				Sample Point	u-159n49w23-g1	
Slope (%):	0 - 2%		Latitude: 48.5		Longitude:		376	Datum:		1	<u> </u>	
		nditions on the site							☑ No	Section:		
		or Hydrology			<b>λ1</b> : (11 110, exμ		normal circun			1		
Are Vegetati				y disturbed?		Ale			esent?	Township:		
Are Vegetati		☐ or Hydrology	<b>∟</b> aturally pr	oblematic?			Yes	□No		Range:	Dir:	
SUMMARY (	OF FINDING	5										
Hydrophytic '	Vegetation P	resent?	No					Hydric Soil	s Present?	No		
Wetland Hyd	drology Prese	nt?	No		-			Is This Sar	mplina Poin	nt Within A W	etland? <b>No</b>	
Remarks:			a tilled, draine	ed, and plante	d wheat fie	eld east o	of a ditch wetla	nd (outside	the corrido	r) and south	of a ditch waterbody (within t	the
Remarks: The sample site is located in a tilled, drained, and planted wheat field east of a ditch wetland (outside the corridor) and south of a ditch waterbody (within the corridor). Recent rains have affected the area.												
HYDROLOG	•											
HYDROLOG	Y											
Wetland Hy	drology Ind	icators (Check all	that apply; N	linimum of or	e primary	or two se	condary requi	red):				
Primary	<u>:</u>								Secondary:	-		
A1 - Surface Water					B11 - Salt 0					B6 - Surface S	Soil Cracks	
	A2 - High Wa			□ B13 - Aquatic Fauna					■ B8 - Sparsely Vegetated Concave Surface			
	A3 - Saturation				C1 - Hydrog					B10 - Drainage Patterns		
	B1 - Water M									C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows		
	B2 - Sedimen				C4 - Presei			Roots (not till				
	B3 - Drift Dep B4 - Algal Ma				C7 - Thin M					D2 - Geomorp	n Visible on Aerial Imagery	
l H	B5 - Iron Dep				Other (Expl		ce			D5 - FAC-Neu		
1 5		n Visible on Aerial Im	agery	_	Otrici (Expi	iaii)					aved Hummocks (LRR F)	
	B9 - Water-S		lagery						_	<i>D7</i> 110001100	aved Hammooko (Erkiti)	
_												
Field Obser	vations:											
					<i>(</i> : \)							
	er Present?		Depti	n:	(in.)			Wetland H	lvdrology	Present?	N	
Water Table		Yes $\square$	Depti	า:	(in.)				,		<u> </u>	
Saturation P	resent?	Yes $\square$	Deptl	n:	(in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	tream gauge moni	itoring well as	rial photos pr		ections)	if available:					
						ections),	if available:					
Describe Rec Remarks:		stream gauge, moni				ections),	if available:					
Remarks:						ections),	if available:					
Remarks:	No indicato	rs of wetland hydro	ology were ob	served.	evious insp	·		dia-day-				
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro	ology were objected to docu	served.	evious insp	onfirm the	e absence of ir					
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro	ology were objected to docu	served.	evious insp	onfirm the	e absence of ir					
Remarks:  SOILS Profile Descri	No indicato	be to the depth ne	ology were objected to docu	served.	evious insp	onfirm the	e absence of ir ore Lining, M=Matr					
Remarks:  SOILS Profile Descri	No indicato	rs of wetland hydro	eeded to docu atrix, CS=Covere	ment the indi	evious insp cator or co Grains; Locat	onfirm the ion: PL=Po Mottle	e absence of ir ore Lining, M=Matr					
Remarks:  SOILS Profile Descri	No indicato	be to the depth ne	ology were objected to docu	served.	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	No indicato	be to the depth ne etion, RM=Reduced Ma	eeded to docu atrix, CS=Covere	ment the indi	evious insp cator or co Grains; Locat	onfirm the ion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ix)	Texture C		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11	No indicato iption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere %	ment the indi	cator or co	onfirm the	e absence of in ore Lining, M=Matr es Type	Location	С	No redox observe		
Remarks:  SOILS Profile Descri (Type: C=Concei	No indicato	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	eeded to docu atrix, CS=Covere	ment the indi	cator or co	onfirm the ion: PL=Po Mottle	e absence of ir ore Lining, M=Matr	ix)		No redox observe		
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Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18	No indicato iption (Descr ntration, D=Depi	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/1	eeded to docu eatrix, CS=Covers % 100 90	color (	cator or cc Grains; Locat Moist)	monfirm the	e absence of in ore Lining, M=Matr es Type	Location	С	No redox observe		
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18	No indicato iption (Descr ntration, D=Depl	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/1	eeded to docu eatrix, CS=Covers % 100 90	ment the indi	cator or cc Grains; Locat Moist)	monfirm the	e absence of ir ore Lining, M=Matr es Type C	Location	C		ed.	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18  NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/1	eeded to docuatrix, CS=Covere  % 100 90 neck here if in	ment the indi d/Coated Sand  Color ( Hue_10YR	cator or co Grains; Locat  Moist)  2/1  not present	monfirm the	e absence of ir ore Lining, M=Matr es Type C	Location M	C C	for Problematic	ed.	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18  NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR Hue_2.5Y	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  4/1  Indicators (ch	eeded to docuatrix, CS=Covere  % 100 90 eeck here if in	ment the indi d/Coated Sand  Color (  Hue_10YR  dicators are i	cator or co Grains; Locat  Moist)  2/1  not present	monfirm the	e absence of ir ore Lining, M=Matr es Type C	Location M	C C Indicators 1 A9 - 1 cm M	for Problemation	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18  NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR Hue_2.5Y  ric Soil Field  A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docuatrix, CS=Covere  % 100 90 neck here if in	ment the indicators are in Security Sec	cator or cc Grains; Locat  Moist)  2/1  not present	Mottle  Mottle  10  tt):	e absence of ir ore Lining, M=Matr es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Cost F	for Problemation	c Soils <sup>1</sup> RR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18  NRCS Hydr	No indicato iption (Description (Description) Hue 10YR Hue 2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/1  Indicators (ch	blogy were observed to document to documen	Color (  Hue_10YR  dicators are I  S5 - Sandy R  S6 - Stripped F1 - Loamy N	cator or co Grains; Locat  Moist)  2/1  not present  edox Matrix fucky Minera	monfirm the dion: PL=Po  Mottle  %  10  10  t):	e absence of ir ore Lining, M=Matr es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	for Problematii luck (LRR I, J) Prairie Redox (L urface (LRR G)	c Soils¹ LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18  NRCS Hydr	No indicato iption (Descritation, D=Depl Hue_10YR Hue_2.5Y  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docuatrix, CS=Covere  % 100 90 eeck here if in	ment the indicators are in Security Sec	cator or co Grains; Locat  Moist)  2/1  and present  edox Matrix flucky Minera  Gleyed Matrix	monfirm the dion: PL=Po  Mottle  %  10  10  t):	e absence of ir ore Lining, M=Matr es Type C	Location  M	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S	for Problemation (LRR I, J) Prairile Redox (LRR G) Plains Depression	c Soils <sup>1</sup> RR F, G, H)	
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-11 11-18  NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR Hue_2.5Y  ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Matrix Color (Moist) 2/1 4/1 Indicators (ch	eeded to docuatrix, CS=Covere  % 100 90 eeck here if in	Color (  Hue_10YR  dicators are I  S5 - Sandy R  S6 - Stripped F1 - Loamy N  F2 - Loamy N  F3 - Depleted F6 - Redox D  F7 - Depleted	cator or co Grains; Locat  Moist)  2/1  anot present  edox Matrix ducky Minera Sleyed Matrix I Matrix ark Surface Dark Surface	Mottle % 10 tt):	e absence of ir ore Lining, M=Matr es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc	for Problematiculuck (LRR I, J) Prairie Redox (Lurface (LRR G)) Plains Depressioned Vertic	c Soils¹  LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w23-g1
VEGETATIO		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:1 (B)
5.					
6.					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
	<del>-</del>		_		FAC spp. 1 x 3 = 3
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 x 4 = 40
1.	,				UPL spp. 85 x 5 = 425
2.					
3.					Total 96 (A) 468 (B)
4.					·
5.					Prevalence Index = B/A = 4.875
6.					1 TOVARIOTOC TRIGON - DIA - ***********************************
7.					
8.					Iliyahan bistin Vanatatian Indiantana
					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0	_		Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	85	Y	NI	
2.	Thlaspi arvense	10	N	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Sonchus arvensis	1	N	FAC	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.					
15.					Woody Vines - All woody vines, regardless of height.
o.	Total Cover =	96			
]	Total Covel -	90	_		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1.	ratum (1 101 SIZE. 30 II. Taulus)				
2.					
3.					Hydrophytic Veretation Present?
					Hydrophytic Vegetation Present? N
5.					
4.	T	^			
	Total Cover =	0			
Remarks:	The vegetation is dominated by wheat.				
Additional R	Remarks:				
1					