WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/02/14	
Applicant:		Enbridge									County:	Kittson	
Investigators	s:	BCS/BEH				Subregion	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	I132A						•	Classification:					
Landform:	Talf				Lo	cal Relief:		Olassilloation.			Comple Deint	u 150n/0w5 of	
											Sample Point:	u-159n49w5-a1	
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:				
Are climatic/	'hydrologic co	onditions on the site	e typical fo	or this	time of year	ar? (If no, exp	lain in rema	arks)	⊡Yes	□ No	Section:		
Are Vegetati	ion 🗹 Soi	I ☐ or Hydrology	□anifica	antly d	isturbed?		Are	normal circun	nstances pro	esent?	Township:		
Are Vegetati		I □ or Hydrology						Yes	□No		Range:	Dir:	
SUMMARY			Litterany	y probi	cmatio:			00			range.	DII.	
Hydrophytic			N			-			Hydric Soi	s Present?	No		
Wetland Hyd	drology Prese	ent?	N	lo					Is This Sai	npling Poin	it Within A We	etland? No	
Remarks:		sample point is lo	cated in a	tilled a	agricultural	field that I	has beer	n planted to so	vbeans.	· · · ·			
					3				,				
HYDROLOG	iΥ												
Wetland Hy	drology Ind	licators (Check all	I that apply	v [.] Mini	mum of on	e primary	or two se	econdary requi	red).				
Primary		ilcators (Oncor an	i tilat apply	y, .v		c pilitially	01 two 30	condairy requi	icu).	Secondary:			
		Water				R11 Salt (ruet					oil Cracks	
☐ A1 - Surface Water ☐ A2 - High Water Table				□ B11 - Salt Crust□ B13 - Aquatic Fauna							B6 - Surface Soil Cracks		
l ä	A3 - Saturation							le Odor \Box			B8 - Sparsely Vegetated Concave Surface B10 - Drainage Patterns C3 - Ovidized Phizosphoros on Living Roots (tilled)		
	B1 - Water M					C2 - Dry Se							
	B2 - Sedimer							spheres on Living	Pooto (not till		C3 - Oxidized Rhizospheres on Living Roots (tilled) C8 - Crayfish Burrows		
l H	B3 - Drift Dep								Roots (not till			ourrows n Visible on Aerial Image	001
										D2 - Geomorpi		егу	
☐ B4 - Algal Mat or Crust☐ B5 - Iron Deposits										D5 - FAC-Neut			
		องแร on Visible on Aerial Im				Other (Expi	iairi)						Γ\
l H		tained Leaves	lagery								D7 - FIOSI-Hea	ived Hummocks (LRR F	r)
	ba - water-s	tained Leaves											
Field Obser	vations:												
Surface Wat	ter Present?	Yes 🗆	D	Depth:		(in.)							
		=		· —					Wetland F	lydrology l	Present?	N	
Water Table Present? Yes Depth: (in.)											_		
Saturation P	resent?	Yes \square	D	epth:		(in.)							
						. , ,	ections)	if available:					
Describe Rec	corded Data (stream gauge, moni	itoring well,	l, aerial	l photos, pre	evious insp		if available:					
	corded Data (itoring well,	l, aerial	l photos, pre	evious insp		if available:					
Describe Rec	corded Data (stream gauge, moni	itoring well,	l, aerial	l photos, pre	evious insp		if available:					
Describe Rec	corded Data (stream gauge, moni	itoring well,	l, aerial	l photos, pre	evious insp		if available:					
Describe Red Remarks:	corded Data(No primary	stream gauge, moni	itoring well, and hydrol	l, aerial	l photos, pre	evious insp e present.			ndicators.)				
Describe Red Remarks: SOILS Profile Descr	No primary	stream gauge, moni or secondary wetle ibe to the depth ne	itoring well, and hydrol	I, aerial	I photos, pro indicators ar	evious inspre present.	onfirm the	e absence of ir					
Describe Red Remarks: SOILS Profile Descr	No primary	stream gauge, moni or secondary wetl	itoring well, and hydrol	I, aerial	I photos, pro indicators ar	evious inspre present.	onfirm the	e absence of ir					
Describe Red Remarks: SOILS Profile Descr	No primary	stream gauge, moni or secondary wetland ibe to the depth ne letion, RM=Reduced M	itoring well, and hydrol	I, aerial	I photos, pro indicators ar	evious inspre present.	onfirm the	e absence of ir ore Lining, M=Matr					
Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	No primary	stream gauge, moni or secondary wetland ibe to the depth neletion, RM=Reduced Matrix	itoring well, and hydrol	I, aerial	I photos, prodicators are	evious inspere present. cator or co	onfirm the ion: PL=Pe Mottle	e absence of ir ore Lining, M=Matr	ix)				
Describe Red Remarks: SOILS Profile Descr	No primary	stream gauge, moni or secondary wetland ibe to the depth ne letion, RM=Reduced M	itoring well, and hydrol	I, aerial	I photos, pro indicators ar	evious inspere present. cator or co	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	No primary iption (Description, D=Dep Hue_10YR A1- Histosol A2 - Histic Ep	stream gauge, monior secondary wetler ibe to the depth neletion, RM=Reduced M Matrix Color (Moist) 2/1 I Indicators (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion, RM=Reduced M Matrix Color (Moist) (chapping depth of the depth neletion)	itoring well, and hydrol eeded to do latrix, CS=Co	locume overed/C % 100 if indic	cators are r	evious insperie present. cator or cograins; Locat Woist) not present	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (L	: Soils ¹	
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-21	ric Soil Field A1- Histosol A2 - Histic Eq A3 - Black Hi A4 - Hydroge A5 - Stratifiec	stream gauge, monior secondary wetletion wetletion, RM=Reduced Meletion,	itoring well, and hydrol eeded to do latrix, CS=Co	if indic	cators are r S5 - Sandy R S6 - Stripped 12 - Loamy R S3 - Depleted	evious insperie present. cator or cograins; Locat Moist) not present edox Matrix Matrix Matrix	onfirm the source of the sourc	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio ed Vertic	: <u>Soils¹</u> RR F, G, H))
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce	ric Soil Field A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete	stream gauge, monior secondary wetleton secondary wetleton secondary wetleton, RM=Reduced Meletion, RM=Reduced Mel	eeded to delatrix, CS=Co	if indic	cators are r S5 - Sandy R S6 - Stripped T1 - Loamy R C2 - Loamy G C3 - Pepleted G6 - Redox D T7 - Depleted	evious inspere present. cator or cograins; Locat Moist) not present edox Matrix lucky Minera leyed Matrix Matrix Matrix Matrix Matrix Matrix Dark Surface Dark Surface	Mottle %	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	SOIIS RR F, G, H))
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Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-21	ric Soil Field A1- Histosol A2- Histic Er A3- Black Hi A4- Hydroge A5- Stratifier A9-1 cm Mt A11- Deplett A12- Thick E S1- Sandy M	ibe to the depth neletion, RM=Reduced M Matrix Color (Moist) 2/1 I Indicators (chapted in the strict of the st	eeded to de latrix, CS=Co	if indic	cators are r S5 - Sandy R S6 - Saripped 11 - Loamy R S2 - Loamy R S3 - Depleted 66 - Redox D 77 - Depleted 87 - Redox D	evious inspire present. cator or cograins; Locat Moist) not present edox Matrix Ilucky Minera illeyed Matrix Matrix Matrix ark Surface Dark Surface epressions	monfirm the source of the sour	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression and Vertic Parent Material Shallow Dark S	SOIIS RR F, G, H))
Describe Rec Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-21 NRCS Hydi	A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A9 - 1 cm Mt A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	ibe to the depth nedetion, RM=Reduced Miletion, RM=	eeded to delatrix, CS=Co	if indic	cators are r S5 - Sandy R S6 - Saripped 11 - Loamy R S2 - Loamy R S3 - Depleted 66 - Redox D 77 - Depleted 87 - Redox D	evious inspire present. cator or cograins; Locat Moist) not present edox Matrix Ilucky Minera illeyed Matrix Matrix Matrix ark Surface Dark Surface epressions	monfirm the source of the sour	e absence of ir ore Lining, M=Matr es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressic sed Vertic 'earent Material 'Shallow Dark S ain in Remarks)	E Soils ¹ RR F, G, H) ONS (LRR H, outisde MLRA 72, 73) Surface	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-159n49w5-a1
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.					, ,
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					(VVB)
					Dunyalanaa luulay Markahaat
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.	<u>_</u>				OBL spp. 0 x 1 = 0
	Total Cover =	0	_		FACW spp. 0 x 2 = 0
					FAC spp. $0 x 3 = 0$
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.					UPL spp. 15 x 5 = 75
2.					··· <u></u>
3.					Total 15 (A) 75 (B)
4.					10tal 10 (1) (D)
					Dravolence Index = P/A =
5.					Prevalence Index = B/A = 5.000
6.					
7.					
8.					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) *
Herh Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	15	Υ	NI	1 Tobletti Hydrophytic Vegetation (Explain)
2.	Glyenie max	10		INI	* Indicators of hydric soil and wetland hydrology must be
					present, unless disturbed or problematic.
3.				-	
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.
				-	1101D
13.					
14.				_	March March Allungahusings regardless of balance
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	15	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present? N
5.				-	Try at Opiny at Or Ogotation (1000mt)
				-	
4.	T-1-1 C			_	
D	Total Cover =	<u>0</u>	4-		the second of the broker de
Remarks:	The upland sample area is dominated by soy	/beans. Th	e site app	ears to ha	ve been sprayed with herbicide.
Additional R	emarks:				
Additional N	terraring.				
l					
<u> </u>					