## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	07/30/14
Applicant:	ant: Enbridge									County:	Kittson
Investigators: BCS/BEH/MRK				Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit: I132A				NWI Classification:							
Landform:	Talf 0 - 2%				Local Relief					Sample Poin	t: <u>u-159n49w10-a1</u>
Slope (%):	.60289417			8761667	Datum:						
Are climatic/h		nditions on the sit						□Yes	☑ No	Section:	
Are Vegetation		☑ or Hydrology				Are	e normal circun	•	esent?	Township:	
Are Vegetation	on 📮 Soil	☐ or Hydrology	<b>□</b> turally	problematic1			Yes	□No		Range:	Dir:
SUMMARY C	OF FINDINGS	3									
Hydrophytic \	Vegetation P	resent?	No	1				Hydric Soi	Is Present?	' Yes	
Wetland Hyd	Irology Prese	nt?	No					Is This Sa	mpling Poir	nt Within A W	/etland? <b>No</b>
Remarks:	The upland	sample area is loo	cated within	a tilled, agr	cultural whe	at field u	pslope from a s	easonally-f	looded basi	n.	
HYDROLOG	Υ										
Wetland Hy	drology Ind	cators (Check all	I that apply;	Minimum of	one primary	or two s	econdary requi	red):			
Primary:		•	11 7				, ,	,	Secondary:	<u>.</u>	
	A1 - Surface \			☐ B11 - Salt					B6 - Surface		
	A2 - High Wa										Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				C2 - Dry S					B10 - Drainag	je Patterns   Rhizospheres on Living Roots (tille
I	B2 - Sedimen				C3 - Oxidi			C8 - Crayfish			
I =	B3 - Drift Dep				C4 - Pres			rests (not an			on Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin		ace			D2 - Geomor	
	B5 - Iron Dep				☐ Other (Ex	plain)				D5 - FAC-Nei	
		n Visible on Aerial Im	nagery							D7 - Frost-He	eaved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ											
Surface Water		_		pth:				Wetland F	- Hydrology	Present?	N
Water Table	Present?	Yes	De	pth:				· · · · · · · · · · · · · · · · · · ·	.yu.o.ogy		_ <u>:`</u>
Saturation Pr	resent?	Yes $\square$	De	pth:	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Reco											
								fall events			
Remarks:								fall events.			
Remarks:								fall events.			
Remarks: SOILS	Surface soil	cracking is prese	ent; the area	has recentl	experience	d abnorn	nally heavy rain				
Remarks:  SOILS Profile Descri	Surface soil	cracking is prese	ent; the area	has recentl	experience	ed abnorn	nally heavy rain	ndicators.)			
Remarks:  SOILS Profile Descri	Surface soil	cracking is prese	ent; the area	has recentl	experience	ed abnorn	nally heavy rain	ndicators.)			
Remarks:  SOILS Profile Descri	Surface soil	cracking is prese	ent; the area	has recentl	experience	ed abnorn	nally heavy rain ne absence of ir Pore Lining, M=Matr	ndicators.)	1	I	
Remarks: SOILS Profile Descri (Type: C=Concer	Surface soil	cracking is prese be to the depth ne etion, RM=Reduced M Matrix	ent; the area	cument the i	v experience	ed abnorn confirm th ation: PL=P	nally heavy rain the absence of in Fore Lining, M=Matr es	ndicators.)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Surface soil	be to the depth neetion, RM=Reduced M  Matrix Color (Moist)	ent; the area	cument the i	experience	ed abnorn	nally heavy rain ne absence of ir Pore Lining, M=Matr	ndicators.)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5	Surface soil iption (Descri	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2.5/1	eeded to do latrix, CS=Cov	cument the i ered/Coated Sa	r (Moist)	confirm the ation: PL=P	nally heavy rain the absence of in the Lining, M=Matr es Type	ndicators.) ix) Location	С		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12	Surface soil iption (Descriptration, D=Deplementation, D=Deplementation) Hue_2.5Y Hue_2.5Y	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1	ent; the area eeded to do latrix, CS=Cov	cument the interest of the control o	r (Moist)	confirm the ation: PL=P	nally heavy rain the absence of ir fore Lining, M=Matr es Type D	Location M	C C		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5	Surface soil iption (Descri	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2.5/1	ent; the area eeded to do latrix, CS=Cov	cument the i ered/Coated Sa  Colo  C	r (Moist)  Y 4/1  SY 2.5/1	confirm the ation: PL=P  Mottl % 30 13	nally heavy rain the absence of ir the core Lining, M=Matr these Type D C	Location  M M	C C		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12	Surface soil iption (Descriptration, D=Deplementation, D=Deplementation) Hue_2.5Y Hue_2.5Y	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1	ent; the area eeded to do latrix, CS=Cov	cument the interest of the control o	r (Moist)  Y 4/1  SY 2.5/1	confirm the ation: PL=P	nally heavy rain the absence of ir fore Lining, M=Matr es Type D	Location M	C C		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24	Surface soil iption (Descri ntration, D=Depl  Hue_2.5Y Hue_2.5Y Hue_5Y	cracking is prese be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1  4/1	ent; the area eeded to do atrix, CS=Cov	cument the lered/Coated Salva Color	r (Moist)  Y 4/1 6Y 2.5/1 6Y 6/6	confirm the ation: PL=P  Mottl % 30 13 2	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M	C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24	Surface soil iption (Descri ntration, D=Depl  Hue_2.5Y Hue_2.5Y Hue_5Y	be to the depth neetion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1	ent; the area eeded to do atrix, CS=Cov	cument the lered/Coated Salva Color	r (Moist)  Y 4/1 6Y 2.5/1 6Y 6/6	confirm the ation: PL=P  Mottl % 30 13 2	nally heavy rain the absence of ir the core Lining, M=Matr these Type D C	Location  M M	C C		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24	Surface soil iption (Descri ntration, D=Depl  Hue_2.5Y Hue_2.5Y Hue_5Y	cracking is prese be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1  4/1	ent; the area eeded to do atrix, CS=Cov	cument the ered/Coated Sa  Colo  Col	r (Moist)  Y 4/1 SY 2.5/1 SY 6/6 e not preser	confirm the ation: PL=P  Mottl % 30 13 2	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M M	C C C	for Problemat	ic Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	Surface soil iption (Descri ntration, D=Depl  Hue_2.5Y Hue_2.5Y Hue_5Y	cracking is prese be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1  4/1	ent; the area eeded to do atrix, CS=Cov	cument the identification and indicators a has recentle cument the identification and indicators are cument the identification and indicators are cument.	r (Moist)  Y 4/1  SY 2.5/1  SY 6/6  e not preser	confirm the ation: PL=P  Mottl % 30 13 2	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M M	C C C C	luck (LRR I, J)	ic Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	Surface soil iption (Descrintration, D=Depl Hue_2.5Y Hue_2.5Y Hue_5Y  Tic Soil Field  A1- Histosol A2 - Histic Ep	be to the depth neetion, RM=Reduced Mineston, RM=Re	ent; the area eeded to do atrix, CS=Cov	cument the identification of the identificat	r (Moist)  Y 4/1  GY 2.5/1  GY 6/6  Red not presently Redox and Matrix	Mottl  30 13 2	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M M	C C C C Indicators 1 A9 - 1 cm M	luck (LRR I, J) Prairie Redox	ic Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	Surface soil iption (Descrintration, D=Depl  Hue 2.5Y Hue 2.5Y Hue 5Y  A1- Histosol A2 - Histic Ep A3 - Black His	cracking is prese be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1  4/1  Indicators (ch	ent; the area eeded to do atrix, CS=Cov	cument the interest of the int	r (Moist)	months and some son firm the state of the st	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M M	C C C C Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox urface (LRR G	<u>ic <b>Soils</b><sup>1</sup></u> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	iption (Descrintration, D=Deplementation, D=Depl	cracking is prese  be to the depth ne etion, RM=Reduced M  Matrix  Color (Moist)  2.5/1  2.5/1  4/1  Indicators (ch	ent; the area eeded to do atrix, CS=Cov	cument the increase in the inc	r (Moist)	months and some son firm the state of the st	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location M M M	Indicators 1 A9 - 1 cm M A1 - Coast S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress	ic Soils <sup>1</sup> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	Hue 2.5Y Hue 2.5Y Hue 5Y Hue 5Y Hue 5Y Histosol A2 - Histic Eig A3 - Black His A4 - Hydrogei A5 - Stratified	be to the depth neterion, RM=Reduced Minester (Moist)  2.5/1  2.5/1  4/1  Indicators (chain in Sulfide Layers (LRR F)	ent; the area eeded to do atrix, CS=Cov	cument the ered/Coated Sa  % Colo 000  70 Hue_5 55 Hue_2. Hue_2. indicators a  \$\Begin{array}{cccccccccccccccccccccccccccccccccccc	r (Moist)  Y 4/1  Y 2.5/1  Y 6/6  e not presei	months and some son	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) : Prairie Redox urface (LRR G Plains Depress ced Vertic	<u>ic <b>Soils</b><sup>1</sup></u> (LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	Surface soil iption (Descrintration, D=Deplementation, D=Deplement	be to the depth nettion, RM=Reduced Minestern Matrix  Color (Moist)  2.5/1  2.5/1  4/1  Indicators (chain a chain and a chain	ent; the area eeded to do atrix, CS=Cov	cument the identification indicators a label strip in F1 - Loan in F6 - Redcentification in F6 -	r (Moist)	months of the second se	nally heavy rain the absence of infore Lining, M=Matr the states of the	Location  M M M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc	luck (LRR I, J) Prairie Redox urface (LRR G Plains Depress ced Vertic Parent Material	ic Soils <sup>1</sup> (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-5 5-12 12-24  NRCS Hydr	Surface soil iption (Descrintration, D=Deplementation, D=Deplement	be to the depth neation, RM=Reduced Mineral Matrix Color (Moist) 2.5/1 2.5/1 4/1  Indicators (chairman and the color of th	ent; the area eeded to do latrix, CS=Cov	cument the interest of the int	r (Moist) r (Moi	monfirm thation: PL=P  Mottl  Mottl  30  13  2  nt):  ral rix e e acce s sssions (ML	e absence of infore Lining, M=Matrices  Type  D C C C HAPPING Soft LRF	Location M M M M I I I I I I I I I I I I I I I	Indicators 1 A9 - 1 cm M A9 - 1 cm M A9 - 1 cm A9 S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	fluck (LRR I, J) Prairie Redox urface (LRR G Plains Depress bed Vertic Parent Material Shallow Dark ain in Remarks hydrophytic veget ad or problematic	ic Soils <sup>1</sup> (LRR F, G, H) ) ions (LRR H, outside MLRA 72, 73) Surface ) ation and wetland hydrology must be presi

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Project/Site:	L3R				Sample Point: u-159n49w10-a1				
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:(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. 5 x 2 = 10				
	-		_		FAC spp. 0 x 3 = 0				
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0				
1.	Statum (Flot oiles: Fork Fadias)				UPL spp. 42 X 5 = 210				
2.									
3.					Total 47 (A) 220 (B)				
4.					. 5.5.1				
5.					Prevalence Index = R/A = 4 504				
6.					Prevalence Index = B/A = 4.681				
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) *				
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *				
1.	Triticum aestivum	40	Υ	NI					
2.	Hordeum jubatum	5	N	FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Setaria viridis	2	N	NI	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.				
15.	Total Cover =	47							
	Total Cover -	41	_						
Woods Vinc Of	ratum (Plot size: 30 ft. radius)								
•	ratum (FIOL SIZE. 30 IL FACIUS)								
1.									
2.					Under the sta Manadattan B. (2. Al				
3.					Hydrophytic Vegetation Present? N				
5.									
4.				_					
<u> </u>	Total Cover =	0							
Remarks:	The upland sample area is dominated by cult	ivated whe	eat.						
Additional R	Remarks:								
]									