WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/02/14
Applicant:		Enbridge									County:	Kittson
Investigators	:	BCS/BEH/MRK	Subregion (MLRA or LRR)					MLRA 56		State:	MN	
Soil Unit:	1140A NWI Classification:											
Landform:	Dip	Local Relief: CC									Sample Point	w-159n48w6-a1
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:			
		nditions on the site				Ir? (If no, exp			⊡Yes	□No	Section:	
Are Vegetation		or Hydrology			disturbed?		Are	e normal circum	•	esent?	Township:	
Are Vegetation		☐ or Hydrology	Laturall	ly prob	lematic?			Yes	□No		Range:	Dir:
SUMMARY C												
						Yes			Hydric Soils Present?			
Wetland Hydrology Present? Yes							Is This Sampling Po de ditch between a gravel driveway and U.S. Highway 7					
Remarks:			h located	d withii	n a roadside	e ditch bet	ween a (gravel driveway	and U.S. F	lighway 75.	The vegetat	ion is dominated by softstem
		hybrid cattail.										
HYDROLOG	Y											
		icators (Check all	that appl	ly; Min	imum of on	e primary	or two se	econdary requii	ed):			
Primary:					_					Secondary:		
☐ A1 - Surface Water☐ A2 - High Water Table						B11 - Salt (B6 - Surface S	
□	A3 - Saturatio					B13 - Aqua					B10 - Sparsely	Vegetated Concave Surface e Patterns
□	B1 - Water Ma											Rhizospheres on Living Roots (tilled)
	B2 - Sedimen							spheres on Living	Roots (not till		C8 - Crayfish I	
	B3 - Drift Dep					C4 - Prese						n Visible on Aerial Imagery
☑	B4 - Algal Mat B5 - Iron Depo					C7 - Thin N Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu	
		n Visible on Aerial Ima	agery		_	Other (Exp	iairi)			_		aved Hummocks (LRR F)
	B9 - Water-St											,
Field Observ	vations:											
Surface Water	er Present?	Yes \square		Depth:		(in.)			Watland H	lydrology I	Procent?	Υ
Water Table	Present?	Yes \square		Depth:		(in.)			wellanu n	iyurology i	riesenti	<u>'</u>
Saturation Pr	resent?	Yes 🗹		Depth:	0	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Rec	orded Data (s	tream gauge, monit	orina wel	II. aeria	al photos, pre	evious insp	ections).	if available:				
							ections),	if available:				
Remarks:		stream gauge, monit aturated at the sur					ections),	if available:				
							ections),	if available:				
Remarks:	The soil is s		face and	d an al	gal mat is pi	resent.			dicators.)			
Remarks: SOILS Profile Descri	The soil is s	aturated at the sur	face and	d an alo	gal mat is po	resent.	onfirm th	e absence of in				
Remarks: SOILS Profile Descri	The soil is s	aturated at the sur be to the depth need etion, RM=Reduced Ma	face and	d an alo	gal mat is po	resent.	onfirm the	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	The soil is s	aturated at the sur be to the depth nee etion, RM=Reduced Ma Matrix	face and	d an alo	gal mat is present the indicated Sand Conted Sand Conted Sand Conted Sand Content S	resent. cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matr es	(x)			
Remarks: SOILS Profile Descri	The soil is s	aturated at the sur be to the depth need etion, RM=Reduced Ma	face and	d an alo	gal mat is po	resent. cator or co Grains; Local	onfirm the	e absence of in ore Lining, M=Matr		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descri tration, D=Depk ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth nee etion, RM=Reduced Ma Matrix Color (Moist) Indicators (che	eded to c	docum covered/ %	gal mat is properties of the indicated Sand Control (Note that is properties). Color (Note that is properties). Color (Note that is properties). See Sandy Research Sandy R	cator or co Grains; Local Moist) oot presen	Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox	c Soils¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	ption (Descrintation, D=Depletion (Descriptation, D=Depletion) ic Soil Field A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth nedetion, RM=Reduced Ma Matrix Color (Moist) Indicators (checking depth on the color is sufficient of the color	eded to c	docum docum vovered// %	gal mat is pi ent the indid Coated Sand C Color (N cators are n S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	Cator or co Grains; Local Moist) Ot presented ox Matrix ucky Mineraleyed Matrix	onfirm thion: PL=Pi Mottle %	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressi	c Soils¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	ption (Descriptration, D=Deplete A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	be to the depth necession, RM=Reduced Ma Matrix Color (Moist) Indicators (checking a Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	eded to contribution of the contribution of th	docummoovered// % if indi	ent the indicoated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Coated Sand Sand Sand Sand Sand Sand Sand San	Moist) Motor present edox Matrix Ma	Mottle % Mottle tion: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduc TF2 - Red P TF12 - Very	uck (LRR I, J) Prairie Redox urface (LRR G) Plains Depressioned Vertic Parent Material	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w6-a1
VEGETATIO		non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	<u>Species Name</u>	% Cover	Dominant	Ind.Status	Dominance Test Worksheet
1.					
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)
3.					
4.					Total Number of Dominant Species Across All Strata:3(B)
5.					
6.					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. 70 \times 1 = 70
	Total Cover =	0			FACW spp. 22 x 2 = 44
	-		_		FAC spp. 0 x 3 = 0
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. 4 x 4 = 16
1.					UPL spp. 0 x 5 = 0
2.					···
3.					Total 96 (A) 130 (B)
4.					,
5.					Prevalence Index = B/A = 1.354
6.					Tronsiend made and made
7.					
8.					Hydrophytic Vegetation Indicators:
9.					* * * *
10.					Rapid Test for Hydrophytic Vegetation X Dominance Test is > 50%
10.	 Total Cover =	0			
	Total Cover =_	U	_		
	5.4.4.56.4.3.				Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)	0.5		ODI	Problem Hydrophytic Vegetation (Explain) *
1.	Schoenoplectus tabernaemontani	35	Y	OBL	* Indicators of hydric coil and watland hydrology must be
2.	Typha X glauca	20	Y	OBL	 * Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Hordeum jubatum	20	Y	FACW	
4.	Beckmannia syzigachne	15	N	OBL	Definitions of Vegetation Strata:
5.	Ambrosia artemisiifolia	2	N	FACU	_
6	Rumex stenophyllus	2	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Trifolium hybridum	2	N	FACU	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.
	Total Cover = _	96	_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	0			
Remarks:	The wetland sample area is dominated by sof	ftstem buli	rush, hybri	id cattail, a	and foxtail barley.
	•		•		·
Additional F	Remarks:				
, taditional r	tomanio.				