## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	08/02/14	
Applicant:	Enbridge BCS/BEH/MRK										County:	Kittson	
Investigators		Subregion (MLRA				•	MLRA 56		State:	MN			
Soil Unit:	<u>I140A</u>				NWI						O I. D I	450=400 h4	
Landform: Slope (%):	Dip 0 - 2%	1 -44	Local Relief: CC 48.61585917 Longitude: -96.904				1000000	Datum:		Sample Point:	w-159n48w6-b1		
		nditions on the site								□No	Section:		
Are Vegetation		or Hydrology			listurbed?	ai: (II IIO, exp		normal circun			Township:		
Are Vegetation		☐ or Hydrology			lematic?		,	☑ Yes	□No	JOOI 11.	Range:	Dir:	
SUMMARY C											· tamger		
Hydrophytic \				Yes					Hydric Soil	s Present?	Yes		
Wetland Hyd				Yes		-					t Within A W	etland? Yes	
Remarks:	The wetland		etated, s	seasona	ally-flooded	basin adja	acent to	a gravel drive	and U.S. Hig	ghway 75. V	egetation is	dominated by comr	mon
HYDROLOG	-	na riyona sattam											
		estere (Chask all	that ann	alve Mini	imum of on	o primarı	or two or	aandan, ragui	rod\.				
Primary:		cators (Check all	тат арр	oly, iviirii	imum oi or	e primary	or two se	econdary requi	rea):	Secondary:			
	A1 - Surface \	Vater				B11 - Salt (	Crust				B6 - Surface S	oil Cracks	
	A2 - High Water Table											Vegetated Concave Si	urface
✓	A3 - Saturatio B1 - Water Ma					C1 - Hydro C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Livin	a Dooto (tilled)
	B2 - Sediment							pheres on Living	Roots (not till		C8 - Crayfish E		g Roots (tilled)
	B3 - Drift Dep				_				Trooto (not till			n Visible on Aerial Imag	gery
	B4 - Algal Mat					C7 - Thin N		ice			D2 - Geomorp		
	B5 - Iron Depo	osits n Visible on Aerial Im	ogon/		Ц	Other (Exp	lain)			=	D5 - FAC-Neu	tral Test aved Hummocks (LRR	) E/
	B9 - Water-St		lagel y							_	D7 - FIOSI-Hea	ived Hullillocks (LKK	( F )
_													
Field Observ	vations:												
Surface Water	er Present?	Yes 🔲		Depth:		(in.)			Watland II	ludual a aut l	2	V	
Water Table	Present?	Yes $\square$		Depth:		(in.)			Wetland H	iyarology i	Present?	<u>Y</u>	
Saturation Pr	resent?	Yes ☑		Depth:	0	(in.)							
Describe Reco	orded Data (s	tream gauge, moni	toring we	ell, aeria	l photos, pr	evious insp	ections),	if available:					
Describe Reco		tream gauge, moni											
Remarks:	The soil is s	aturated at the sur	rface. Th	ne wetla	and is situa	ted in a lov	v-lying a	rea.					
Remarks:  SOILS Profile Descri	The soil is s	aturated at the sur	rface. The	ne wetla	and is situa ent the indi	ted in a lov	w-lying a	rea. e absence of ir					
Remarks:  SOILS Profile Descri	The soil is s	aturated at the sur	rface. The	ne wetla	and is situa ent the indi	ted in a lov	w-lying a	rea. e absence of ir					
Remarks:  SOILS Profile Descri	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma	rface. The	ne wetla	and is situa ent the indi	ted in a lov	v-lying and on firm the tion: PL=Po	rea. e absence of ir ore Lining, M=Mati					
Remarks:  SOILS Profile Descri (Type: C=Concer	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma Matrix	rface. The	docume	and is situa ent the indi Coated Sand	ted in a lov cator or co Grains; Locat	onfirm the	rea. e absence of irore Lining, M=Matr	ix)	Texture		Remarks	
Remarks:  SOILS Profile Descri	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma	rface. The	ne wetla	and is situa ent the indi	ted in a lov cator or co Grains; Locat	v-lying and on firm the tion: PL=Po	rea. e absence of ir ore Lining, M=Mati		Texture		Remarks	
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Remarks:  SOILS Profile Descri (Type: C=Concer	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma Matrix	rface. The	docume	and is situa ent the indi Coated Sand	ted in a lov cator or co Grains; Locat	onfirm the	rea. e absence of irore Lining, M=Matr	ix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma Matrix	rface. The	docume	and is situa ent the indi Coated Sand	ted in a lov cator or co Grains; Locat	onfirm the	rea. e absence of irore Lining, M=Matr	ix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	rface. The eded to atrix, CS=0	docum Covered/0	ent the indi Coated Sand Color (	cator or cc Grains; Local	w-lying a	rea. e absence of irore Lining, M=Matr	ix)	Texture		Remarks	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	rface. The eded to atrix, CS=0	docum Covered/0	and is situa ent the indi Coated Sand	cator or cc Grains; Local	w-lying a	rea. e absence of ir ore Lining, M=Matr es Type	ix)		or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	The soil is s	aturated at the sur be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	rface. The eded to atrix, CS=0	docume Covered/0	ent the indi Coated Sand Color (	cator or co Grains; Local Moist)	w-lying a	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f	or Problematic		
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	The soil is s iption (Descrintration, D=Deple ic Soil Field A1- Histosol A2 - Histic Ep	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)  Indicators (ch	rface. The eded to atrix, CS=0	docume Covered/0	ent the indicated Sand  Color (  cators are i	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix	w-lying and ponfirm the cion: PL=Point Mottle %	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Deple	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  Indicators (chappedon etic)	rface. The eded to atrix, CS=0	documic Covered/C	ent the indicated Sand  Color (  Color (  Cators are I  S5 - Sandy R  S6 - Stripped  1 - Loamy N	cator or cc Grains; Local Moist)  Moist)  not presen edox Matrix fucky Minera	w-lying and ponfirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	uck (LRR I, J) Prairie Redox ( urface (LRR G)	: Soils¹ LRR F, G, H)	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	be to the depth ne etion, RM=Reduced Me Matrix Color (Moist)  Indicators (ch	rface. The eded to atrix, CS=0	docum Covered/C	ent the indicated Sand  Color (  Cators are I  Cators are I  Color (  Cators are I	cator or co Grains; Local Moist) Mot presented Matrix Mucky Minera Bleyed Matrix	w-lying and ponfirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	rea. e absence of ir 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) Pains Depressio	c Soils <sup>1</sup>	73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic E History A3 - Black His A4 - Hydroger A5 - Stratified	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch ipedon titic n Sulfide Layers (LRR F)	rface. The eded to atrix, CS=0	docume Covered/C  %  e if indice  F  F  F  F	ent the indicated Sand  Color (  Cators are i  65 - Sandy R  66 - Stripped  F2 - Loamy N  F3 - Depleted	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix Mucky Minera Eleyed Matrix Matrix Matrix Matrix	w-lying and ponfirm the confirm the confirm the confirm the confirm the confirm the confirmation of the co	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Su F16 - High F F18 - Reduc	uck (LRR I, J) Prairie Redox ( urface (LRR G) Pains Depression ed Vertic	: Soils¹ LRR F, G, H)	73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch ipedon titic n Sulfide Layers (LRR F)	rface. The seded to strike, CS=0	documo Covered/0  %  e if indice  F  F  F  F  F  F  F  F  F  F  F  F  F	ent the indicated Sand  Color (  Cators are I  Cators are I  Color (  Cators are I	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera Sleyed Matrix ark Surface	w-lying and sonfirm the sonfir	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red P	uck (LRR I, J) Prairie Redox ( urface (LRR G) Pains Depressio	C Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 7)	73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D	aturated at the sur be to the depth ne etion, RM=Reduced Me  Matrix Color (Moist)  Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	rface. The seded to strike, CS=0	docum. Covered/C	ent the indicated Sand  Color (  Cators are I  Cators are	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	w-lying all confirm the confirmation and confirmation the confirmation that confirm the confirmation that confirmation that confirmation the confirmation	rea. e absence of ir 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 Depression ed Vertic arent Material	: Soils¹  LRR F, G, H)  ONS (LRR H, outside MLRA 72, 7	73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy Mi	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch ipedon titic n Sulfide Layers (LRR F) ck (LRR FGH) dd Lelow Dark Surface ark Surface ucky Mineral	reded to edded to edd	docume Covered/C  %  e if indice  F  F  F  F  F  F  F  F  F  F  F  F  F	ent the indicated Sand  Color (  Cators are I  Cators are	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	w-lying all confirm the confirmation and confirmation the confirmation that confirm the confirmation that confirmation that confirmation the confirmation	rea. e absence of ir 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 Depression ed Vertic arent Material Shallow Dark S	: Soils¹  LRR F, G, H)  ONS (LRR H, outside MLRA 72, 7	73)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ric Soil Field  A1- Histosol A2- Histic Ep A3- Black His A4- Hydroger A5- Stratified A9- 1 cm Muc A11- Deplete A12- Thick D S1- Sandy Mis S2- 2.5 cm M	aturated at the sur be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch  ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Surface ark Surface ucky Mineral lucky Peat or Peat (LR) cky Peat or Peat (LR)	reded to atrix, CS=C	docume Covered/C  %  e if indice  F  F  F  F  F  F  F  F  F  F  F  F  F	ent the indicated Sand  Color (  Cators are I  Cators are	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	w-lying all confirm the confirmation and confirmation the confirmation that confirm the confirmation that confirmation that confirmation the confirmation	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc F72 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox ( Inface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S in in Remarks)	: Soils¹  LRR F, G, H)  ONS (LRR H, outside MLRA 72, 7	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Descrintration, D=Depletentration, D=Depletentration) A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mt S2 - 2.5 cm Mt S3 - 5 cm Muc	aturated at the sur be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  Indicators (ch  ipedon tic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Surface ark Surface ucky Mineral lucky Peat or Peat (LR) cky Peat or Peat (LR)	reded to atrix, CS=C	docume Covered/C  %  e if indice  F  F  F  F  F  F  F  F  F  F  F  F  F	ent the indicated Sand  Color (  Cators are I  Cators are	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix Mucky Minera Bleyed Matrix I Matrix ark Surface I Dark Surface epressions	w-lying all confirm the confirmation and confirmation the confirmation that confirm the confirmation that confirmation that confirmation the confirmation	rea. e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc F72 - Red P TF12 - Very Other (Expla	uck (LRR I, J) Prairie Redox ( Irface (LRR G) Plains Depressic ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetat	c: Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outside MLRA 72, 7	
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-159n48w6-b1			
<b>VEGETATION</b>	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: 2 (A)			
3.					·,			
4.					Total Number of Dominant Species Across All Strata: 2 (B)			
5.					(B)			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
					reitent di Dominant Species Mat Ale OBL, I AGW, di I AG. 100.076			
7.					B 1 1 1 W 1 1 4			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.	<u>_</u>				OBL spp. 25 x 1 = 25			
	Total Cover =	0			FACW spp. 7			
					FAC spp. $0   x   3 = 0$			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0			
1.					UPL spp. $0   x   5 = 0$			
2.					···			
3.					Total 32 (A) 39 (B)			
4.	<u> </u>				. 5.551 (1)			
					Dravelance Index = D/A = 4.040			
5.					Prevalence Index = B/A = 1.219			
6.	_							
7.	_							
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					X Dominance Test is > 50%			
	Total Cover =	0			X Prevalence Index is ≤ 3.0 *			
	-		_		Morphological Adaptations (Explain) *			
Herh Stratum (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Eleocharis palustris	15	Υ	OBL	1 Toblem Hydrophydd Ydgatadan (Explain)			
2.	Typha X glauca	10	Y	OBL	* Indicators of hydric soil and wetland hydrology must be			
3.	Hordeum jubatum	5	N	FACW	present, unless disturbed or problematic.			
			N	_				
4.	Rumex stenophyllus	2	IN	FACW	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.			
10.	T-1-1 C	20			**************************************			
	Total Cover =	32	_					
	ratum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.								
4.								
1	Total Cover =	0						
Remarks:			kerush an	id vouna h	vhrid cattail			
Remarks: The wetland sample point is dominated by common spikerush and young hybrid cattail.								
Additional R	Remarks:							
<u></u>								