## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	07/01/14
Applicant:		Enbridge									County:	Kittson
Investigators	:	BEH/BCS				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I134A	•	•					Classification:				
Landform:	Depression				Lo	cal Relief:	CL				Sample Point	: w-160n49w32-a1
Slope (%):	0 - 2%		Latitude:	48.631	130733	Longitude:	-97.018	11983333	Datum:		1	
Are climatic/h	hydrologic co	nditions on the site	e typical	for this	s time of yea				□Yes	☑ No	Section:	
Are Vegetation	on 🖵 Soil	☐ or Hydrology	□gnific	cantly	disturbed?		Are	e normal circum	stances pre	esent?	Township:	
Are Vegetation		☐ or Hydrology						Yes	□No		Range:	Dir:
SUMMARY C		, , ,,		, ,							Ü	
Hydrophytic \				Yes					Hydric Soil	s Present?	Yes	
Wetland Hyd			_	Yes		•					nt Within A W	etland? Yes
Remarks:					adside ditch	. Commo	n spikeru	ısh. reed canar				
Remarks: The wetland is a wet meadow located in a roadside ditch. Common spikerush, reed canary grass, and hybrid cattail compose the majority of the vegetation. The area has received a high amount of precipitation in recent weeks.												
HYDROLOG		- C		•	•							
			1 414	. l N 4:					1\-			
Primary:		icators (Check all	that app	oly; iviir	ilmum of on	e primary	or two se	econdary requir	ea):	Casandan		
Primary:	: A1 - Surface \	Nater			П	B11 - Salt (	Cruet			Secondary:	B6 - Surface S	Soil Cracks
	A2 - High Wa					B13 - Aqua						Vegetated Concave Surface
7	A3 - Saturation					C1 - Hydro					B10 - Drainag	
	B1 - Water M	arks				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen							spheres on Living	Roots (not till		C8 - Crayfish	
	B3 - Drift Dep					C4 - Prese						n Visible on Aerial Imagery
	B4 - Algal Ma B5 - Iron Dep					C7 - Thin N Other (Exp		ace			D2 - Geomorp D5 - FAC-Neu	
		ก Visible on Aerial Im	nagery			Other (Exp	iaii)					aved Hummocks (LRR F)
I =	B9 - Water-St		lagery							_	D7 11000110	avea Hammooko (Erker)
Field Observ	vations:											
Surface Water		Yes 🗹		Depth:	2	(in.)						
Water Table		Yes ☑		Depth:	0	(in.)			Wetland H	lydrology l	Present?	Υ
		_			0							<del>_</del>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
							ections),	if available:				
Describe Reco		stream gauge, moni ontains up to 2 incl					ections),	if available:				
Remarks:							ections),	if available:				
Remarks: SOILS	The ditch co	ontains up to 2 incl	hes of sta	anding	water throu	ighout.			dik \			
Remarks:  SOILS Profile Descri	The ditch co	ontains up to 2 included be to the depth ne	hes of sta	anding docum	water throunent the indi	ighout.	onfirm th	e absence of in				
Remarks:  SOILS Profile Descri	The ditch co	ontains up to 2 incl	hes of sta	anding docum	water throunent the indi	ighout.	onfirm th	e absence of in				
Remarks:  SOILS Profile Descri	The ditch co	ontains up to 2 included be to the depth ne	hes of sta	anding docum	water throunent the indi	ighout.	onfirm the	e absence of in ore Lining, M=Matri				
Remarks: SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth ne etion, RM=Reduced Ma	hes of sta	docum Covered/	water throu nent the indi Coated Sand	ughout. cator or co	onfirm the	e absence of in ore Lining, M=Matri es	(x)	Tevture		Remarks
Remarks:  SOILS Profile Descri	The ditch co	ontains up to 2 included be to the depth ne	hes of sta	anding docum	water throunent the indi	ughout. cator or co	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth ne etion, RM=Reduced Ma	hes of sta	docum Covered/	water throu nent the indi Coated Sand	ughout. cator or co	onfirm the	e absence of in ore Lining, M=Matri es	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth ne etion, RM=Reduced Ma	hes of sta	docum Covered/	water throu nent the indi Coated Sand	ughout. cator or co	onfirm the	e absence of in ore Lining, M=Matri es	(x)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth ne etion, RM=Reduced Ma	hes of sta	docum Covered/	water throu nent the indi Coated Sand	ughout. cator or co	onfirm the	e absence of in ore Lining, M=Matri es	(x)	Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth ne etion, RM=Reduced Ma	hes of sta	docum Covered/	water throu nent the indi Coated Sand	ughout. cator or co	onfirm the	e absence of in ore Lining, M=Matri es Type	(x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth ne etion, RM=Reduced M:  Matrix  Color (Moist)	hes of sta	docum Covered/ %	water throu nent the indi Coated Sand	cator or co Grains; Local	onfirm thition: PL=Pi  Mottle  %	e absence of in ore Lining, M=Matri es	(x)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	The ditch or	be to the depth ne etion, RM=Reduced M:  Matrix  Color (Moist)	hes of sta	docum Covered/ %	nent the indi Coated Sand ( Color (I	cator or co Grains; Local Moist)	onfirm thition: PL=Pi  Mottle  %	e absence of in ore Lining, M=Matri es Type	(x)		for Problemati	
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The ditch co	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (ch	hes of sta	docum Covered/ %	nent the indi Coated Sand ( Color (I	cator or co Grains; Local Moist)	onfirm thition: PL=Pi  Mottle  %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M	luck (LRR I, J)	c Soils <sup>1</sup>
Remarks:  SOILS Profile Descri (Type: C=Concer	The ditch co	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chippedon	hes of sta	docum Covered/ %	water throusenent the indi //Coated Sand of Color (I	cator or cc Grains; Local Moist)  Moist)  not presen edox Matrix	onfirm thion: PL=Pi  Mottle  %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J) Prairie Redox (I	c Soils¹ ∟RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The ditch or ption (Description, D=Deplier Soil Field A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth ne etion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chair)	hes of sta	docum Covered/ %	water throuse the indifferent	dighout.  Cator or cograins; Local  Moist)  Moist)  not presen  edox  Matrix  Jucky Minera	onfirm thion: PL=Pi  Mottle  %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si	luck (LRR I, J) Prairie Redox (I urface (LRR G)	<u>c Soils¹</u> _RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)  NRCS Hydr	ption (Description, D=Depl	be to the depth ne etion, RM=Reduced Matrix Color (Moist)  Indicators (chipedon stic in Sulfide	hes of sta	docum Covered/ %	color (I	cator or co Grains; Local Moist)  Moist)  not presented was marked with the common state of the common sta	onfirm thion: PL=Pi  Mottle  %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S F16 - High F	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi	c Soils¹ ∟RR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	be to the depth ne etion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (ch  ipedon stic n Sulfide Layers (LRR F)	hes of sta	docum Covered/ %	color (I	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix Mutrix Minera elleyed Matrix Matrix Matrix	onfirm the	e absence of in ore Lining, M=Matri 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 (I urface (LRR G) Plains Depressi ced Vertic	<u>c Soils¹</u> _RR 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 - Hydrogel A9 - 1 cm Mu	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chaipedon in Sulfide Layers (LRR F) ck (LRR FGH)	hes of sta	docum Covered/ %	color (I	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera eleyed Matrix lucky Minera eleyed Matrix ark Surface	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark S7 F - 16 - High F F18 - Reduc TF2 - Red F	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ced Vertic Parent Material	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A9 - 1 cm Mu	be to the depth ne etion, RM=Reduced Minimum. Matrix  Color (Moist)  Indicators (chairpedon stic in Sulfide Layers (LRR F) de (LRR FGH) diselow Dark Surface	hes of sta	docum Covered/ %	color (I  S5 - Sandy R  S6 - Stripped F1 - Loamy C  F3 - Depleted F6 - Redox D  F7 - Depleted F7 - Depleted	dighout.  Cator or cograins; Local  Moist)  Moist)  Motrix Mucky Mineral  Matrix	Mottle %	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ced Vertic	c Soils¹  LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chaipedon stic an Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	hes of sta	docum Covered/ %	color (I  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera leyed Matrix Matrix ark Surface park Surface pork Surfae	Mottle %  Mottle tion: PL=Pe  Mottle %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S	c Soils¹  LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ption (Descriptration, D=Depl  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced M:  Matrix Color (Moist)  Indicators (chairpedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ucky Mineral lucky Peat or Peat (L	eeded to atrix, CS=C	docum Covered/ %	color (I  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera leyed Matrix Matrix ark Surface park Surface pork Surfae	Mottle %  Mottle tion: PL=Pe  Mottle %  tt):	e absence of in ore Lining, M=Matri es Type	Location	Indicators 1 A9 - 1 cm M A16 - Cost F S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	The ditch or ption (Descrintration, D=Deplintration, D=De	be to the depth ne etion, RM=Reduced Mineral Lucky Peat or Peat (Lcky	eeded to atrix, CS=C	docum Covered/ %	color (I  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera leyed Matrix Matrix ark Surface park Surface pork Surfae	Mottle %  Mottle tion: PL=Pe  Mottle %  tt):	e absence of in ore Lining, M=Matri 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 Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi 2ed Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils¹  LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ption (Descriptration, D=Depl  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	be to the depth ne etion, RM=Reduced Mineral Lucky Peat or Peat (Lcky	eeded to atrix, CS=C	docum Covered/ %	color (I  S5 - Sandy R  S6 - Stripped F1 - Loamy R  F2 - Loamy R  F3 - Depleted F6 - Redox D  F7 - Depleted F8 - Redox D	cator or co Grains; Local Moist)  Moist)  not presen edox Matrix lucky Minera leyed Matrix Matrix ark Surface park Surface pork Surfae	Mottle %  Mottle tion: PL=Pe  Mottle %  tt):	e absence of in ore Lining, M=Matri 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 Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	be to the depth neetion, RM=Reduced Mi  Matrix  Color (Moist)  Indicators (chairpedon stice of Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface aucky Mineral lucky Peat or Peat (Lcky Peat or Peat (LR) leyed Matrix	hes of state eeded to atrix, CS=C	anding docum Covered/ %  if indi	color (I  Color	dedox Matrix Matrix ark Surface Dark Surface Dark Surface persessions ains Depres	Mottle %  Mottle %  tt):	e absence of in ore Lining, M=Matri es Type  Type  RA 72, 73 of LRR	Location Location Location Location Location Location	Indicators 1 A9 - 1 cm M A16 - Cost F F 7 - Dark S F 16 - High F F 18 - Reduc T F 12 - Very Other (Expla	luck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressi ed Vertic Parent Material Shallow Dark S ain in Remarks) hydrophytic vegeta ad or problematic.	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outisde MLRA 72, 73)  Surface

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-160n49w32-a1			
VEGETATION	(Species identified in all uppercase are	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: 3 (A)			
3.					`` <i></i> `` /			
4.					Total Number of Dominant Species Across All Strata: 3 (B)			
5.					Total Number of Bonnian opposite / til ottala.			
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
7.					reicent of Dominant Species That Ale OBL, I AGW, of I AG. 100.076			
8.					Prevalence Index Worksheet			
9.					Total % Cover of: Multiply by:			
10.	<u>_</u>				OBL spp. 40 x 1 = 40			
	Total Cover =	0	_		FACW spp. 20 x 2 = 40			
					FAC spp. $0   x   3 = 0$			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 10 X 4 = 40			
1.					UPL spp. 0 x 5 = 0			
2.					··· <del></del>			
3.					Total <mark>70</mark> (A) <u>120</u> (B)			
4.					(1)			
5.					Prevalence Index = B/A = 1.714			
					Prevalence Index = B/A = 1.714			
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) *			
Herb Stratum (F	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Eleocharis palustris	20	Υ	OBL				
2.	Phalaris arundinacea	15	<u>.</u> Ү	FACW	* Indicators of hydric soil and wetland hydrology must be			
3.	Typha X glauca	15	Y	OBL	present, unless disturbed or problematic.			
4.			N N					
	Elymus repens	10		FACU	Definitions of Vegetation Strata:			
5.	Rumex stenophyllus	5	N	FACW	_			
6	Beckmannia syzigachne	5	N	OBL	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.	T	70			TYOOUY VIIIGS - 7 1000, 1000, 1000 or 100gill.			
	Total Cover =	70	_					
-	atum (Plot size: 30 ft. radius)							
1.								
2.								
3.					Hydrophytic Vegetation Present? Y			
5.				_				
4.								
<u>'</u>	Total Cover =	0		_				
Remarks:			nary grass	and hybr	rid cattail			
Remarks: The ditch is dominated by common spikerush, reed canary grass, and hybrid cattail.								
Additional Remarks:								