## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	06/30/14
Applicant:		Enbridge									County:	Kittson
Investigators		BCS/BEH				Subragio	n /MI DA	or LRR):	MLRA 56		State:	MN
Soil Unit:	I248A	DC3/DL11				Subiegioi		Classification:			State.	IVIIN
					Lo	ool Doliof:		Classification.			Cample Deint	w 460pE0w40 d2
Landform:	Depression			10.000		cal Relief:		400070	D-4		Sample Point	w-160n50w10-d2
Slope (%):	0 - 2%		Latitude: 4			Longitude:			Datum:		4	
		nditions on the site				ar? (If no, exp			⊡Yes	□No	Section:	
Are Vegetation		☐ or Hydrology			disturbed?		Are	e normal circum		esent?	Township:	
Are Vegetation	on 📮 Soil	☐ or Hydrology	□aturally	y prob	lematic?			Yes	□No		Range:	Dir:
SUMMARY C	OF FINDINGS	6										
Hydrophytic \	Vegetation P	resent?	Υ	/es					Hydric Soi	Is Present?	Yes	
Wetland Hyd				es/		•					nt Within A W	etland? Yes
Remarks:					ed fresh wet	meadow l	located v	vithin a CRP fie				
Remarks: The wetland is a reed canary grass dominated fresh wet meadow located within a CRP field. The site is adjacent to a tilled wheat field to the south, and a pre existing pipeline corridor to the west.												
HYDROLOG	011											
		icators (Check all	that apply	y; Min	imum of on	e primary	or two se	econdary requir	red):			
Primary:										Secondary:		
	A1 - Surface					B11 - Salt (					B6 - Surface S	
	☑ A2 - High Water Table ☐ B13 - Aquatic Fau											Vegetated Concave Surface
<b></b>	A3 - Saturation B1 - Water M					C1 - Hydro C2 - Dry Se					B10 - Drainage	e Paπerns Rhizospheres on Living Roots (tilled
l H	B2 - Sedimen							spheres on Living	Doote (not till		C8 - Crayfish E	
	B3 - Drift Dep					C4 - Prese			Roots (not till			n Visible on Aerial Imagery
l i	B4 - Algal Ma					C7 - Thin N					D2 - Geomorp	
1 5	B5 - Iron Dep					Other (Exp		200			D5 - FAC-Neu	
		n Visible on Aerial Im	nagery		_		,					aved Hummocks (LRR F)
l =	B9 - Water-St		3)							_		(=,
_												
Field Observ	vatione:											
		V	_		2	(im. )						
Surface Water		=		Depth:	3	(in.)			Wetland F	lydrology	Present?	Υ
Water Table		Yes 🖳	D	Depth:	0	(in.)				,		_
Saturation Pr	resent?	Yes ☑	D	Depth:	0	(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data(s	tream gauge, moni	itorina well	I. aeria	al photos, pre	evious insp	ections).	if available:				
									the wetland			
Remarks:		etream gauge, moni er is present to a c							the wetland	I.		
Remarks:									the wetland	I.		
Remarks: SOILS	Surface wat	er is present to a d	depth of 3	3 inche	es; the wate	r is deepe	r in lowe	er elevations of		l.		
Remarks:  SOILS Profile Descri	Surface wat	er is present to a combe to the depth ne	depth of 3	3 inche	es; the wate	r is deepe	r in lowe	er elevations of e absence of in	dicators.)	l.		
Remarks:  SOILS Profile Descri	Surface wat	er is present to a d	depth of 3	3 inche	es; the wate	r is deepe	r in lowe	er elevations of e absence of in	dicators.)	l.		
Remarks:  SOILS Profile Descri	Surface wat	be to the depth ne	depth of 3	3 inche	es; the wate	r is deepe	onfirm the	er elevations of e absence of in ore Lining, M=Matri	dicators.)	I.		
Remarks:  SOILS Profile Descri (Type: C=Concer	Surface wat	be to the depth ne etion, RM=Reduced Ma	depth of 3	docum overed/	es; the wate nent the indi Coated Sand (	r is deepe cator or co Grains; Locat	onfirm the	er elevations of e absence of in ore Lining, M=Matri es	dicators.)			
Remarks:  SOILS Profile Descri	Surface war	be to the depth ne	depth of 3	docum overed/	es; the wate	r is deepe cator or co Grains; Locat	onfirm the	er elevations of e absence of in ore Lining, M=Matri	dicators.)	Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Surface wat	be to the depth ne etion, RM=Reduced Ma	depth of 3	docum overed/	es; the wate nent the indi Coated Sand (	r is deepe cator or co Grains; Locat	onfirm the	er elevations of e absence of in ore Lining, M=Matri es	dicators.)			Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer	Surface was ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma Matrix Color (Moist)	depth of 3	docum overed/	es; the wate ent the india Coated Sand C	r is deepe cator or co Grains; Locat	onfirm the	er elevations of e absence of in ore Lining, M=Matri es	dicators.)	Texture		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13	Surface was ption (Descriptration, D=Depl	be to the depth ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1	depth of 3	docum overed/	es; the wate ent the india Coated Sand C	r is deepe	onfirm the	er elevations of e absence of in ore Lining, M=Matri es Type	dicators.)	Texture C		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13	ption (Description, D=Depl	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/2	depth of 3	docum overed/ % 100 95	es; the wate ent the india Coated Sand C	cator or co Grains; Local Moist)	onfirm the tion: PL=Pe Mottle %	er elevations of e absence of in ore Lining, M=Matri es Type	dicators.)	Texture C		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	ption (Description, D=Deplied   Hue_10YR   Hue_2.5Y   ic Soil Field   A1- Histosol	be to the depth ne etion, RM=Reduced Ma  Matrix Color (Moist) 2/1 4/2 Indicators (ch	depth of 3	documovered/ % 100 95 if indi	es; the water lent the indicoated Sand (  Color (I  Hue_10YR  cators are r  S5 - Sandy R  S6 - Stripped	cator or co Grains; Local Moist)  5/6  not presen edox Matrix	months of the second of the se	er elevations of e absence of in ore Lining, M=Matri es Type C	Location  M	Texture C C Indicators 1 A9 - 1 cm M A16 - Cost F	luck (LRR I, J)	c Soils <sup>1</sup> LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	ption (Descriptation, D=Deption (Descriptation, D=Deption (Descriptation, D=Deption (Descriptation, D=Deption (Descriptation, D=Deption (Descriptation, D=Deption (Descriptation, Descriptation, D=Deption (Descriptation, Descriptation, D=Deption (Descriptation, Descriptation, D	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1 4/2  Indicators (chaine)	depth of 3	docummovered// % 100 95 if if indi	es; the water lent the indicoated Sand (  Color (I  Hue_10YR  cators are r  S5 - Sandy R  S6 - Stripped	cator or co Grains; Local  Moist)  5/6  not presen  edox Matrix Mucky Mineral Bleyed Matrix	onfirm the tion: PL=Poisson Mottle %  5  5  tt):	er elevations of e absence of in ore Lining, M=Matri es Type C	dicators.) Location M	Texture C C Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S	fluck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depressio	c Soils <sup>1</sup> LRR F, G, H)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2  Indicators (chaipedon stice is Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to datrix, CS=Co	documento documento de la constanta de la cons	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F3 - Depleted F7 - Depleted	Cator or co Grains; Local  Moist)  5/6  5/6  not presen edox Matrix lucky Minera lieved Matrix Matrix ark Surface Dark Surface	months of the second of the se	er elevations of e absence of in ore Lining, M=Matri es Type C	Location  M	Indicators 1 A9 - 1 cm N A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	ption (Descriptation, D=Depl  Hue_10YR Hue_2.5Y  ic 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 ne etion, RM=Reduced Ma  Matrix Color (Moist)  2/1  4/2  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral	depth of 3 eeded to d atrix, CS=Cc	% 100 95 if indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat  Moist)  5/6  not presen  edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surfae epressions	monfirm the confirm the confirmation of the confirmation confirmat	er elevations of e absence of in ore Lining, M=Matri es Type C	dicators.)  Location  M	Indicators 1 A9 - 1 cm N A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	Pition (Descrintration, D=Deplete Intra In	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2  Indicators (chairpedon stric or Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRK) Peat (LRK) Peat (LRK) Peat (LRK) Peat (LRK) Peat or Peat (LRK)	eeded to datrix, CS=Cc	% 100 95 if indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat  Moist)  5/6  not presen  edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surfae epressions	monfirm the confirm the confirmation of the confirmation confirmat	er elevations of e absence of in ore Lining, M=Matri es Type C	dicators.)  Location  M	Texture C C Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> LRR F, G, H)  ONS (LRR H, outside MLRA 72, 73)  Surface
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	Pition (Descrintration, D=Deplete Intra In	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2  Indicators (chairpedon stric or Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRK) Peat (LRK) Peat (LRK) Peat (LRK) Peat (LRK) Peat or Peat (LRK)	eeded to datrix, CS=Cc	% 100 95 if indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Cator or co Grains; Locat  Moist)  5/6  not presen  edox Matrix lucky Minera leyed Matrix Matrix ark Surface Dark Surfae epressions	monfirm the confirm the confirmation of the confirmation confirmat	er elevations of e absence of in ore Lining, M=Matri es Type C	dicators.)  Location  M	Texture C C Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High F F18 - Reduc TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	Pition (Descrintration, D=Depleter Intration, D=Depleter Intration	be to the depth ne etion, RM=Reduced Matrix  Color (Moist)  2/1  4/2  Indicators (chairpedon stric or Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRK) Peat (LRK) Peat (LRK) Peat (LRK) Peat (LRK) Peat or Peat (LRK)	eeded to datrix, CS=Cc	% 100 95 if indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist)  5/6  Solve Moist)  6  5/6  Moist presen  6  6  6  6  6  Moist presen  7  8  8  8  8  8  8  8  8  8  8  8  8	monfirm the confirm the confirmation of the confirmation confirmat	er elevations of e absence of in ore Lining, M=Matri es Type C  C  RA 72, 73 of LRR	Location  M  E H)	Indicators 1 A9 - 1 cm N A16 - Cost f S7 - Dark S F16 - High F TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outisde MLRA 72, 73)  Surface
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.) 0-13 13-21  NRCS Hydr	ption (Descriptation, D=Depl  Hue_10YR Hue_2.5Y  ic 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 ne etion, RM=Reduced Ma  Matrix  Color (Moist)  2/1  4/2  Indicators (ch  ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral lucky Peat or Peat (LRR eyed Matrix	eeded to datrix, CS=Co	documovered/ % 100 95 if indi	cators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F6 - Redox D F7 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High Pla	cator or co Grains; Local Moist)  5/6  not presen  edox Matrix Mutrix Mineral Bleyed Matrix Matrix Aufrace Dark Surface Dark Surface pressions ains Depres	months on the control of the control	er elevations of e absence of in ore Lining, M=Matri es Type C C RA 72, 73 of LRR	Location  M  Calculation  Calculation	Indicators 1 A9 - 1 cm M A16 - Cost I S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) Prairie Redox (L Urface (LRR G) Plains Depression Ced Vertic Parent Material Shallow Dark S ain in Remarks)  hydrophytic vegetal ed or problematic.	c Soils <sup>1</sup> LRR F, G, H)  DNS (LRR H, outisde MLRA 72, 73)  Surface

## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-160n50w10-d2
<b>VEGETATION</b>		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:(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. 25 x 1 = 25
	Total Cover =	0			FACW spp. 47 x 2 = 94
	_		_		FAC spp. 10 x 3 = 30
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 82 (A) 149 (B)
4.					···
5.					Prevalence Index = B/A = 1.817
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 (	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Phalaris arundinacea	35	Υ	FACW	
2.	Eleocharis palustris	20	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Panicum virgatum	10	N	FAC	present, unless disturbed or problematic.
4.	Eleocharis compressa	10	N	FACW	Definitions of Vegetation Strata:
5.	Alisma triviale	5	N	OBL	20
6	Symphyotrichum lanceolatum	2	N	FACW	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.				171011	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.					11010
14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cover =	82			
	rotal cover =_	02	_		
Woody Vino St	ratum (Plot size: 30 ft. radius)				
1.	accum (1 lot SIZE. OU II. Idulus)				
2.					
3.					Hydrophytic Vegetation Present? Y
5.					nyurophytic vegetation riesent?
5. 4.					
4.	Total Carrar -	0			
Remarks:	Total Cover = The wetland is dominated by reed canary gra		mixture of	common r	and flat-stem snikerush
ixemarks.	The welland is dominated by reed canaly gra	ss and a r	IIIXIUI E UI	COMMINION	and nat-stem spikerush.
	Name and the second sec				
Additional R	temarks:				
]					
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