WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/04/14
Applicant:												
		Enbridge				o	(A 41 D A	1.00%			County:	Polk
Investigators		BJC/RAJ				Subregio			MLRA 56		State:	MN
Soil Unit:	1422						NWI	Classification:				
Landform:	Footslope				Loc	cal Relief:					Sample Point:	u-150n40w23-b2
Slope (%):	3 - 7%		Latitude: 4	47.805	5187	Longitude:	-95.741	612	Datum:			
	nydrologic co	nditions on the sit							⊡Yes	□No	Section:	
Are Vegetation		☐ or Hydrology			disturbed?			normal circum			-	
							Aic	✓ Yes	□No	Cociit:	Township:	D'
Are Vegetation		☐ or Hydrology	∟ aturali	y prot	piematic?			型 fes	Пио		Range:	Dir:
SUMMARY C												
Hydrophytic \	Vegetation P	resent?	N	No					Hydric Soil	Is Present?	No No	
Wetland Hyd			_	No					Is This Sar	mpling Poir	nt Within A W	etland? No
					sland domin	ated by sr	mooth br	ome and Kentu				poil pile from an excavated are
HYDROLOG	v											
		icators (Check all	ll that appl	ly; Mir	nimum of on	e primary	or two se	econdary requir	ed):			
Primary:	<u>.</u>									Secondary:	<u>:</u>	
	A1 - Surface \	Nater				B11 - Salt (Crust				B6 - Surface S	Soil Cracks
	A2 - High Wa	ter Table				B13 - Aqua	itic Fauna				B8 - Sparsely '	Vegetated Concave Surface
	A3 - Saturatio	n				C1 - Hydro	gen Sulfid	e Odor			B10 - Drainage	e Patterns
	B1 - Water M	arks				C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen	t Deposits				C3 - Oxidiz	ed Rhizos	pheres on Living	Roots (not till		C8 - Crayfish E	Burrows
	B3 - Drift Dep	osits				C4 - Prese	nce of Red	duced Iron			C9 - Saturation	n Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust				C7 - Thin N	Auck Surfa	ice			D2 - Geomorp	hic Position
	B5 - Iron Dep	osits				Other (Exp	lain)				D5 - FAC-Neu	tral Test
	B7 - Inundation	n Visible on Aerial Im	nagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves										
Field Observ	vations:											
			_			,, ,						
Surface Water		_		Depth:		(in.)			Wetland H	lydrology	Present?	N
Water Table	Present?	Yes \square		Depth:		(in.)			**Ctiana i	iyarology i	1 10301111	· · ·
Saturation Pr	resent?	Yes		Depth:		(in.)						_
						. , ,						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco						evious insp	ections),	if available:				
Remarks:		stream gauge, moning of wetland hydro				evious insp	ections),	if available:				
						evious insp	ections),	if available:				
						evious insp	ections),	if available:				
Remarks: SOILS	No indicator	rs of wetland hydro	ology were	e obse	erved.				dicators.)			
Remarks: SOILS Profile Descri	No indicator	rs of wetland hydro	cology were	e obse	erved.	cator or co	onfirm the	e absence of in				
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Remarks: SOILS Profile Descri	No indicator	be to the depth ne	cology were	e obse	erved.	cator or co	onfirm the	e absence of in ore Lining, M=Matri		I		
Remarks: SOILS Profile Descri (Type: C=Concer	No indicator	be to the depth ne etion, RM=Reduced M	cology were	docum	erved. nent the indid (Coated Sand (cator or co Grains; Locat	onfirm the tion: PL=Po Mottle	e absence of in ore Lining, M=Matri	(x)			
Remarks: SOILS Profile Descri	No indicator	be to the depth ne	cology were	e obse	erved.	cator or co Grains; Locat	onfirm the	e absence of in ore Lining, M=Matri		Texture		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Description) (Descripti	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chipedon	eeded to c	documovered/ % 100 90 100 if indi	color (I Hue_5YR icators are r \$5 - Sandy R \$6 - Stripped	cator or co Grains; Locat Moist) 3/4 sot presen edox Matrix	monfirm the month of the month	e absence of in ore Lining, M=Matri es Type C	Location	L C C Indicators 1 A9 - 1 cm M A16 - Coast	luck (LRR I, J) t Prairie Redox (c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	Ption (Description	be to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chain and a stick of the color and and a stick of the color and a stick of the co	eeded to c	documovered// % 100 90 100 if indi	color (I Hue_5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M	Cator or cc Grains; Local Moist) 3/4 Not presented ox Matrix lucky Mineral	monfirm the story PLEP of Mottle	e absence of in ore Lining, M=Matri es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	fluck (LRR I, J) t Prairie Redox (urface (LRR G)	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Descrintration, D=Depintration, D=Depin	be to the depth ne etion, RM=Reduced M: Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chair ipedon stic in Sulfide	eeded to c	e observed overed overe	color (I Hue_5YR S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or co Grains; Locat Moist) 3/4 not presented ox Matrix lucky Mineraleyed Matrix	monfirm the story PLEP of Mottle	e absence of in ore Lining, M=Matri es Type C	Location	L C C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	fluck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depressio	c Soils ¹ (LRR F, G, H)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	Ption (Description	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 3/1 Indicators (chair in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	eeded to datrix, CS=Co	% 100 90 100 if india	color (I Color (I Hue_5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted	Moist) 3/4 Mot presen edox Matrix lucky Minera leyed Matrix Matrix Matrix Ark Surface Dark Surface	Mottle % 10 t):	e absence of in ore Lining, M=Matri es Type C	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material v Shallow Dark S	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Descrintration, D=Deplementation, D=Deple	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chairm of the chairm of	eeded to datrix, CS=Co	% 100 90 100 if india	color (No. 1997) Hue_5YR Color (No. 1997) Hue_5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 3/4 anot presented Matrix Matrix Surface Dark Surface pressions	Mottle % 10 11 tt):	e absence of in ore Lining, M=Matri es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Descriptation, D=Deplination,	be to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chairman and chairman and chairma	eeded to datrix, CS=Cd	% 100 90 100 if india	color (No. 1997) Hue_5YR Color (No. 1997) Hue_5YR icators are r S5 - Sandy R S6 - Stripped F1 - Loamy G F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	Moist) 3/4 anot presented Matrix Matrix Surface Dark Surface pressions	Mottle % 10 11 tt):	e absence of in ore Lining, M=Matri es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Red uc TF2 - Red F TF12 - Very	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material v Shallow Dark S	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Description) Ption (Description) Hue_10YR Hue_10YR Hue_10YR Hue_2.5Y It 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) 2/1 3/1 3/1 3/1 Indicators (chair a suit of the color of t	eeded to contactive, CS=Contactive,	% 100 90 100 if india	color (Inc. 18 Loan Grant Gr	Moist) 3/4 anot presented Matrix Matrix Surface Dark Surface pressions	Mottle % 10 11 tt):	e absence of in ore Lining, M=Matri es Type C	Location M	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material r Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	No indicato ption (Description	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 3/1 Indicators (chair a suit of the color	eeded to contactive, CS=Contactive,	% 100 90 100 if india	color (Inc. 18 Loan Grant Gr	Moist) 3/4 anot presented Matrix Matrix Surface Dark Surface pressions	Mottle % 10 11 tt):	e absence of in ore Lining, M=Matri es Type C	Location M	Indicators of hardinators of hardina	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material r Shallow Dark S ain in Remarks)	C Soils¹ (LRR F, G, H) DNS (LRR H, outside MLRA 72, 73) Surface
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	No indicato ption (Description	be to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 3/1 Indicators (chair a suit of the color	eeded to contactive, CS=Contactive,	% 100 90 100 if india	color (Inc. 18 Loan Grant Gr	Moist) 3/4 anot presented Matrix Matrix Surface Dark Surface pressions	Mottle % 10 10 11 11 11 11 11 11 11 11 11 11 11	e absence of in ore Lining, M=Matri	Location M	Indicators 1 A9 - 1 Cast S7 - Dark S F16 - High F F16 - Hey F TF12 - Very Other (Expla	Muck (LRR I, J) t Prairie Redox (urface (LRR G) Plains Depression Ced Vertic Parent Material r Shallow Dark S ain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Descriptation, D=Deplination,	be to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chairman and the color of the col	eeded to delatrix, CS=Cd	% 100 90 100 I if indi	color (I Hue_5YR Licators 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 F8 - Redox D F16 - High Pla	Moist) 3/4 aot presen edox Matrix Mucky Minera leyed Matrix Matrix Surface Dark Surface Dark Surface pressions ains Depres	Mottle Mottle 10 10 t):	e absence of incore Lining, M=Matri	Location M H)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) I Prairie Redox (I Prairie Redox (Problematic (Prob	c Soils¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface tion and wetland hydrology must be present,
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-6 6-8 8-18 NRCS Hydr	ption (Descriptation, D=Deplination,	be to the depth neetion, RM=Reduced M. Matrix Color (Moist) 2/1 3/1 3/1 Indicators (chairman and the color of the col	eeded to delatrix, CS=Cd	e observed. % 100 90 100 if india	color (I Hue_5YR Licators 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 F8 - Redox D F16 - High Pla	Moist) 3/4 aot presen edox Matrix Mucky Minera leyed Matrix Matrix Surface Dark Surface Dark Surface pressions ains Depres	Mottle Mottle 10 10 t):	e absence of incore Lining, M=Matri	Location M H)	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F F18 - Reduc TF2 - Red F TF12 - Very Other (Expla	Muck (LRR I, J) I Prairie Redox (I Prairie Redox (Problematic (Prob	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73) Surface

WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-150n40w23-b2
VEGETATIO	N (Species identified in all uppercase are	e non-native	species.)		
	(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: 0 (A)
3.					(/
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					Total Number of Dominant Species Across All Strata(D)
					Described Described Occasion That Are ODL FACIAL as FAC: 0.00/ (A/D)
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. 10 x 3 = 30
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACU spp. 45 x 4 = 180
1.	ettatam (i lot olzo. To it. radiao)				UPL spp. 40
2.					У С С С С С С С С С С С С С С С С С С С
					Total 400 (A) 400 (D)
3.					Total 100 (A) 420 (B)
4.					
5.					Prevalence Index = B/A = 4.200
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					Dominance Test is > 50%
	Total Cover =	0			Prevalence Index is ≤ 3.0 *
	Total Gover		_		
	D				Morphological Adaptations (Explain) *
	Plot size: 5 ft. radius)			LIDI	Problem Hydrophytic Vegetation (Explain) *
1.	Bromus inermis	40	Y	UPL	* ladicateur of budde only and watered budgeton, as set by
2.	Poa pratensis	40	Υ	FACU	* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	Solidago gigantea	10	N	FAC	
4.	Phalaris arundinacea	5	N	FACW	Definitions of Vegetation Strata:
5.	Solidago altissima	5	N	FACU	
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.					All herhaceous (non-woody) plants, regardless of size
12.					Herb - All herbaceous (non-woody) plants, regardless of size.
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	100	_		
	•		_		
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	(. 100 0.20. 00 10. 100100)				
2.				_	
				-	Under which Variation Burner 40
3.				_	Hydrophytic Vegetation Present? N
5.					
4.					
	Total Cover =	0			
Remarks:	The upland sample point is dominated by sm	nooth brom	e and Ker	ntucky blue	egrass.
	•			•	
A -1 -1:47	Name advan				
Additional R	кетагкs:				