WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R									Date:	10/04/14			
Applicant:		Enbridge									County:	Polk			
Investigators		BJC/RAJ				Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN			
Soil Unit:	1264							Classification							
Landform:	Rise				Loc	al Relief:	VC				Sample Point	u-150n40w23	₋ -a1		
Slope (%):	0 - 2%		Latitude: 47	7.80293		Longitude:	-95.733	688	Datum:						
Are climatic/	hydrologic co	nditions on the sit	te typical for	r this time	of yea	r? (If no, exp	olain in rema	arks)	⊡Yes	□No	Section:				
Are Vegetati	on 🛭 Soi	□ or Hydrology	□anifica	ntly disturb	ed?		Are	normal circun	nstances pre	esent?	Township:				
Are Vegetati		or Hydrology						Yes	□No .		Range:	Dir:			
SUMMARY (problemat							range.	5			
			No						Hydric Soil	c Drecent?	No				
, , , ,				No				Hydric Soils Present? No Is This Sampling Point Within A Wetland? No							
		sample point is lo			ocio f	orost dom	inated b	v groop ach ar			it vviuiiii A vv	elianu! NO			
Remarks.	The upland	sample point is to	caled on a	iise iii a ii	esic i	orest don	iii aleu b	y green asn ar	iu chokeche	iry.					
	-														
HYDROLOG	Υ														
Wetland Hy	drology Ind	icators (Check all	I that apply;	; Minimum	of one	primary	or two se	econdary requi	red):						
Primary	<u>:</u>	,				. ,			•	Secondary:	-				
A1 - Surface Water						B11 - Salt (Crust				B6 - Surface S	Soil Cracks			
	A2 - High Wa					B13 - Aqua		Γ				Vegetated Concav	e Surface		
	A3 - Saturation					C1 - Hydro					B10 - Drainage				
	B1 - Water M					C2 - Dry S			5				iving Roots (tilled)		
	B2 - Sedimer										C8 - Crayfish I	Burrows n Visible on Aerial	l		
	B3 - Drift Dep B4 - Algal Ma					C4 - Prese C7 - Thin N					D2 - Geomorp		imagery		
l H	B5 - Iron Dep					Other (Exp		ace			D5 - FAC-Neu				
		on Visible on Aerial Im	nagery		_	Other (Exp	iaii i)					aved Hummocks (I	RR F)		
		tained Leaves	nagery							_	D7 - 1103(-110)	avea mammoons (i	-14(41)		
_															
Field Obser	vations:														
			_			<i>(</i> : \									
	er Present?		De	epth:		(in.)			Wetland H	lvdrology	Present?	N			
Water Table		Yes	De	epth:		(in.)				,					
Saturation P	resent?	Yes \square	De	epth:											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:															
Describe Rec	orded Data (stream gauge, moni	itorina well.	aerial phot	os. pre	vious insc	ections).	if available:							
					os, pre	vious insp	ections),	if available:							
Describe Rec Remarks:		stream gauge, moni rs of wetland hydro			os, pre	evious insp	ections),	if available:							
Remarks:					os, pre	evious insp	ections),	if available:							
Remarks: SOILS	No indicato	rs of wetland hydro	ology were	observed.					adiostors)						
Remarks: SOILS Profile Descr	No indicato	rs of wetland hydro	ology were	observed.	e indic	cator or co	onfirm the	e absence of ir							
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Remarks: SOILS Profile Descr	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced M	ology were	observed.	e indic	cator or co	onfirm the	e absence of ir ore Lining, M=Mati			I				
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato	rs of wetland hydro ibe to the depth ne etion, RM=Reduced M Matrix	eeded to do	observed.	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)						
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do	observed. ocument the vered/Coated % C	e indic	cator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks			
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do	observed.	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)	Texture L		Remarks			
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do latrix, CS=Cov	observed. ocument the vered/Coated % C	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)	Texture L FS		Remarks			
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist)	eeded to do latrix, CS=Cov	observed. ocument the vered/Coated % C	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)	L	Alternating bands				
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Descr ntration, D=Depi	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to do latrix, CS=Cov	observed. ocument the vered/Coated % C 00 70	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)	L FS	Alternating bands	Remarks with other texture			
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to do latrix, CS=Cov	observed. ocument the vered/Coated % C 00 70	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)	L FS	Alternating bands				
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2	eeded to do latrix, CS=Cov	observed. ocument the vered/Coated % C 00 70	e indic	cator or co Grains; Loca	onfirm the tion: PL=Po Mottle	e absence of ir ore Lining, M=Mati	ix)	L FS	Alternating bands				
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi Hue_10YR Hue_10YR	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1	eeded to do latrix, CS=Cov	observed. ocument the rered/Coated % C. 00 70 30	e indic	cator or co Grains; Loca Moist)	Mottle	e absence of ir ore Lining, M=Mati es Type	ix)	L FS	Alternating bands				
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi Hue_10YR Hue_10YR	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1	eeded to do latrix, CS=Cov	observed. ocument the rered/Coated % C. 00 70 30	e indic	cator or co Grains; Loca Moist)	Mottle	e absence of ir ore Lining, M=Mati	ix)	L FS	Alternating bands				
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi Hue_10YR Hue_10YR	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1	eeded to do latrix, CS=Cov	observed. ocument thered/Coated % C 00 70 30 findicators	e indic Sand C olor (N	cator or co Grains; Local Moist)	Mottle	e absence of ir ore Lining, M=Mati es Type	ix)	FS C	Alternating bands	with other texture			
Remarks: SOILS Profile Descr (Type: C=Conce) Depth (In.) 0-13 13-18 13-18 NRCS Hydi	No indicato iption (Description, D=Depi Hue_10YR Hue_10YR	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1	eeded to do latrix, CS=Cov	observed. ocument the rered/Coated % C 00 70 30 indicators \$\Pi\$ \$5 - \$a\$	e indices sand Control of the sand control of	cator or co rains; Local Moist)	Mottle	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators 1 A9 - 1 cm M	for Problemation	with other texture			
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-13 13-18 13-18 NRCS Hydr	No indicato iption (Description, D=Depl Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	ibe to the depth neetion, RM=Reduced Mi Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chairs)	eeded to do latrix, CS=Cov	observed. occument the vered/Coated % C 00 70 30 f indicators \$\sum_{55} - \text{Sa}_{6} \text{S6} - \text{St}	e indid Sand C Sand C Sand C are n	cator or co Grains; Loca Moist) ot presen edox Matrix	onfirm the property of the pro	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators 1 A9 - 1 cm M A16 - Coast	for Problemation	c Soils¹			
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description (Description) Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Eprox A3 - Black Histosol	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chair)	eeded to do latrix, CS=Cov	observed. ocument the rered/Coated % C 00 70 30 f indicators \$\sigma \setminus 55 - \setminus 6 - \setminus 15 - \setminus	e indid Sand C Dolor (N are n are n	cator or co Grains; Loca Moist) ot presented ox Matrix ucky Minera	Mottle % It is a second of the second of th	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark Si	for Problematii luck (LRR I, J) Prairie Redox urface (LRR G)	with other texture c Soils¹ (LRR F, G, H)			
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chairpedon stic in Sulfide	eeded to do latrix, CS=Cov	S5 - Sa	e indices sand Cooling to the same of the	ator or co Grains; Local Moist) ot presen edox Matrix ucky Minerieyed Matri	Mottle % It is a second of the second of th	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S F16 - High F	for Problematii luck (LRR I, J) Prairie Redox i urface (LRR G) Plains Depression	c Soils¹	\72,73)		
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description, D=Depi Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chairpedon stic on Sulfide Layers (LRR F)	eeded to do latrix, CS=Cov	observed. ocument the rered/Coated % C 00 70 30 findicators S5 - Sa S6 - St F1 - Lo F2 - Lo F3 - De	e indid Sand C Dior (N are n andy Red amy M amy M amy G ppleted	ator or co Grains; Local Moist) ot presented a dox Matrix ucky Mineraleyed Matrix Matrix Matrix Matrix Matrix Matrix	Mottle % tt):	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S0 F16 - High F F18 - Reduc	for Problematic luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	with other texture c Soils¹ (LRR F, G, H)	1,72,73)		
Remarks: SOILS Profile Descr (Type: C=Conce Depth (In.) 0-13 13-18 13-18 NRCS Hydr	No indicato iption (Description (Description) Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chairpedon stic n sulfide I Layers (LRR F) ck (LRR FGH)	eeded to do latrix, CS=Cov	S5 - Sa S6 - St F1 - Lo F3 - De F6 - Re F6 - Re	e indid Sand C Sand C Dolor (N are n are n are n dolor (Sanda)	cator or co Grains; Loca Moist) ot presen edox Matrix ucky Mineri eyed Matri Matrix ark Surface	monfirm the property of the pr	e absence of ir ore Lining, M=Mati es Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S7 F18 - Reduc TF2 - Red F	for Problemation Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Juck de Vertic Parent Material	c Soils¹ (LRR F, G, H)	172,73)		
Remarks: SOILS Profile Descr (Type: C=Conce	No indicato iption (Description (Description) (Description	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chair) ipedon stic n Sulfide l Layers (LRR F) ck (LRR FGH) dd Below Dark Surface	eeded to do latrix, CS=Cov	S5 - Sa S6 - St F1 - Lo F2 - Lo F3 - De F6 - Re F7 - De F7 - De	e indid Sand C S	cator or co Grains; Loca Moist) ot presen edox Matrix ucky Minera leyed Matrix Matrix Arrix Surface Dark Surface	monfirm the property of the pr	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematicular (LRR I, J) Prairie Redox (LRR G) Plains Depression Plains Depres	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLR/	\ 72, 73)		
Remarks: SOILS Profile Descr (Type: C=Conce	Hue 10YR Hue 10YR Hue 10YR Hue 10YR A1- Histosol A2 - Histic Ep A3 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick D	ibe to the depth ne etion, RM=Reduced M Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chairpedon stic in Sulfide IL ayers (LRR FGH) and Below Dark Surface ark Surface	eeded to do latrix, CS=Cov	S5 - Sa	e indidisand Color (Notes are notes	cator or co Grains; Local Moist) ot presen edox Matrix ucky Mineral eyed Matrix Matrix ark Surface Dark Surface	Mottle % Mottle tion: PL=Pe	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problemation Juck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Juck de Vertic Parent Material	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLR/	1.72, 73)		
Remarks: SOILS Profile Descr (Type: C=Conce	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratifiec A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	ibe to the depth ne etion, RM=Reduced M. Matrix Color (Moist) 2/1 4/2 2/1 Indicators (chairpedon stic on Sulfide I Layers (LRR F) ck (LRR FGH) and Surface uncky Mineral	eeded to do latrix, CS=Cov	S5 - Sa	e indidisand Color (Notes are notes	cator or co Grains; Local Moist) ot presen edox Matrix ucky Mineral eyed Matrix Matrix ark Surface Dark Surface	Mottle % Mottle tion: PL=Pe	e absence of ir ore Lining, M=Mati es Type	Location	L FS C Indicators f A9 - 1 cm M A16 - Coast S7 - Dark SI F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	for Problematicular (LRR I, J) Prairie Redox (LRR G) Plains Depression Plains Depres	c Soils¹ (LRR F, G, H) ONS (LRR H, outside MLR/	À 72, 73)		
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: u-150n40w23-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.	Fraxinus pennsylvanica	60	Υ	FAC				
2.					Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)			
3.								
4.					Total Number of Dominant Species Across All Strata: 6 (B)			
5.					Total Number of Bonninant opedies Adioss All otitata.			
6.					Descent of Descinant Consider That Are ORL FACIAL or FAC: FO 00/ (A/D)			
					Percent of Dominant Species That Are OBL, FACW, or FAC:			
7.								
8.	_				Prevalence Index Worksheet			
9.	_				Total % Cover of: Multiply by:			
10.					OBL spp 0 x 1 = 0			
	Total Cover =	60			FACW spp. $0 x 2 = 0$			
	-		_		FAC spp. 70 x 3 = 210			
Sapling/Shrub S	Stratum (Plot size: 15 ft. radius)				FACU spp. 120 x 4 = 480			
1.	Prunus virginiana	45	Υ	FACU	UPL spp. 25 X 5 = 125			
2.		10	•	00				
3.					Total 215 (A) 945 (D)			
					Total 215 (A) 815 (B)			
4.								
5.					Prevalence Index = B/A = 3.791			
6.								
7.								
8.					Hydrophytic Vegetation Indicators:			
9.					Rapid Test for Hydrophytic Vegetation			
10.					Dominance Test is > 50%			
10.	Total Cover =	45			Prevalence Index is ≤ 3.0 *			
	Total Cover -	40	_					
					Morphological Adaptations (Explain) *			
	Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *			
1.	Arctium minus	40	Y	FACU				
2.	Bromus inermis	25	Υ	UPL	* Indicators of hydric soil and wetland hydrology must be			
3.	Solidago canadensis	15	N	FACU	present, unless disturbed or problematic.			
4.	Rubus idaeus	10	N	FACU	Definitions of Vegetation Strata:			
5.	Osmorhiza claytonii	10	N	FACU	·			
6					Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
7.					height (DBH), regardless of height.			
8.								
				-	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
9.				-	Sapinig/Sirrub - Woody plants less than 5 m. DDM, 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 =	100						
	rotal Cover =	100	_					
14/	orthografia CO (Const.)							
	ratum (Plot size: 30 ft. radius)		_ >/	E40				
1.	Vitis riparia		5 Y	FAC				
2.	Parthenocissus vitacea		5 Y	FAC				
3.					Hydrophytic Vegetation Present?N			
5.								
4.								
· ·	Total Cover =	10						
Remarks: The upland sample point is dominated by green ash and chokecherry. Burdock is also prevalent in spots.								
Additional R	emarks:							