WETLAND DETERMINATION DATA FORM Great Plains Region

Duna: a a4/0:4a.		li op									I Data:	00/00/44
Project/Site:		L3R Enbridge									Date:	09/30/14 Reprington
Applicant: Investigators			Subregion (MLRA			or I RR)·	MLRA 56		County: State:	Pennington MN		
Soil Unit:	S. KAJ/DJC [Classification:			Otato.	IVIIV
Landform:	Toeslope				Loc	cal Relief:		Oldoon oddon.			- Sample Point	w-153n44w11-e2
Slope (%):	0 - 2%		Latitude:	48.088		Longitude:		377	Datum:]	
	hydrologic co	nditions on the	e site typical f	for this	s time of yea	r? (If no, exp	lain in remar	rks)		□ No	Section:	
Are Vegetation	on 🛭 Soil	□, or Hydrol	logy ⊏signific	cantly	disturbed?		Are	normal circun	nstances pre	esent?	Township:	
Are Vegetation		□, or Hydrol	logy □ aturall	ly prob	lematic?			✓ Yes	□ No		Range:	Dir:
SUMMARY (OF FINDINGS	S										
Hydrophytic '			-	Yes					Hydric Soil			
	drology Prese			Yes							nt Within A W	
Remarks:		_				_	_	_				e of a large depression. The Willow-
		broad minge bett	ween the shallow	w maisi	n at the wettar	id Ceriter ari	id trie upiai	nd. All paramete	ers or wettand	conditions at	e met.	
HYDROLOG	Y											
		icators (Chec	ck all that app	ly; Min	nimum of one	e primary o	or two sec	condary requi	red):			
<u>Primary</u>	_				_					Secondary:		
	A1 - Surface				_	B11 - Salt C B13 - Aqua					B6 - Surface S	
	A2 - High Wa A3 - Saturation					C1 - Hydrog		e Odor			B10 - Drainag	Vegetated Concave Surface e Patterns
	B1 - Water M					C2 - Dry Se						Rhizospheres on Living Roots (tilled)
	B2 - Sedimen					C3 - Oxidize	ed Rhizosp	oheres on Living	Roots (not tille		C8 - Crayfish	Burrows
	B3 - Drift Dep					C4 - Preser						n Visible on Aerial Imagery
	B4 - Algal Ma				_	C7 - Thin M		ce		☑	D2 - Geomorp D5 - FAC-Neu	
	B5 - Iron Dep	osits on Visible on Aer	rial Imagery			Other (Expl	iain)					aved Hummocks (LRR F)
	B9 - Water-St		iai iiilagery							_	<i>D1</i> 1103(110)	avea Hammooks (ERRT)
Field Obser	vations:											
Surface Wat	er Present?	Yes □	1	Depth:		(in.)			NA 7-41 1 1 1		D	V
Water Table		Yes □		Depth:		(in.)			Wetland H	lydrology	Present?	Y
Saturation P		Yes □		Depth:		(in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
LDescribe Rec	orded Data (s	stream gauge	monitoring we	II aeria	al photos pre	vious inspe	ections) it	if available:				
	<u>`</u>								ovdrology is	nresent		
Remarks:	<u>`</u>							if available: est. Wetland h	nydrology is	present.		
Remarks:	<u>`</u>								nydrology is	present.		
Remarks:	The wetland	d is located in	a depression	al area	a and passe	s the FAC	-neutral to		, 0,	present.		
Remarks: SOILS Profile Descri	The wetland	d is located in	a depressionate the needed to de	al area	a and passe	s the FAC	-neutral to	est. Wetland h	idicators.)	present.		
Remarks: SOILS Profile Descri	The wetland	d is located in be to the dept etion, RM=Reduc	a depressionate th needed to deed Matrix, CS=C	al area	a and passe	s the FAC	neutral to	est. Wetland he absence of in re Lining, M=Matr	idicators.)	present.		
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	d is located in the to the dept etion, RM=Reduc Matrix	a depression th needed to deed Matrix, CS=C	al area	a and passe nent the indic Coated Sand G	cator or co	neutral to	e absence of in re Lining, M=Matr	idicators.)			
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the deptetion, RM=Reduce Matrix Color (Moist)	a depressional than eeded to compare the compare the compare to the compare th	docum covered/	a and passe	cator or co	neutral to	est. Wetland he absence of in re Lining, M=Matr	idicators.)	present. Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	The wetland	be to the deptetion, RM=Reduce Matrix Color (Moist)	a depressional than eeded to compare the compare the compare to the compare th	al area	a and passe nent the indic Coated Sand G	cator or co	neutral to	e absence of increasing Memory	idicators.)		Sapric	Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	The wetland	Matrix Color (Moist)	a depressional than eeded to compare the compare the compare to the compare th	docum covered/ % 100	ent the indicated Sand Control (N	cator or co	neutral to	e absence of increasing Memory	idicators.)		Sapric	Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	The wetland iption (Description, D=Depl	Matrix Color (Moist)	th needed to deed Matrix, CS=C	docum covered/ % 100	ent the indicated Sand Control (N	cator or co	neutral to	e absence of ingre Lining, M=Matres Type	idicators.)	Texture M	Sapric for Problemati	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18	The wetland iption (Description, D=Depl Hue_10YR ric Soil Field A1- Histosol	Matrix Color (Moist) Indicators	th needed to deed Matrix, CS=C	docum covered/ % 100 e if indi	cators are n	cator or co Grains; Locati Moist) ot present	neutral to	e absence of ingre Lining, M=Matres Type	Location	Texture M Indicators 1 A9 - 1 cm M	for Problemati fuck (LRR I, J)	c Soils ¹
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR Fic Soil Field A1- Histosol A2 - Histic Ep	Matrix Color (Moist) Indicators	th needed to deed Matrix, CS=C	docum covered/ % 100	cators are n	cator or co Grains; Locati Moist) ot present	neutral to	e absence of ingre Lining, M=Matres Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast	for Problemati fuck (LRR I, J) t Prairie Redox	<u>c Soils¹</u> (LRR F, G, H)
Remarks: SOILS Profile Descrication (Type: C=Concert) Depth (In.) 0-18 NRCS Hydr	The wetland iption (Description, D=Depl Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	is located in the to the deptetion, RM=Reduce Matrix Color (Moist) 2/ Indicators	th needed to deed Matrix, CS=C	docum Covered/ % 100 e if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M	cator or co Grains; Locati Moist) ot present	neutral to	e absence of ingre Lining, M=Matres Type	Location	Indicators 1 A9 - 1 cm M A16 - Coast S7 - Dark S	for Problemati Muck (LRR I, J) t Prairie Redox urface (LRR G)	c Soils ¹ (LRR F, G, H)
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-153n44w11-e2
		•			
VEGETATIO		re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)				
	Species Name	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.	Salix discolor	60	Υ	FACW	
2.					Number of Dominant Species that are OBL, FACW, or FAC: 8 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:8(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.		1			Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 30 x 1 = 30
	Total Cover =	60			FACW spp. 130 x 2 = 260
					FAC spp. 23 $\times 3 = 69$
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{5}{5}$ \times $4 = \frac{20}{5}$
1.	Cornus alba	30	Υ	FACW	UPL spp. $0 x 5 = 0$
2.	Viburnum opulus	20	Y	FAC	
3.	Ribes americanum	5	 N	FACW	Total 188 (A) 379 (B)
4.	Toxicodendron rydbergii	5	N	FACU	(7)
5.	Toxicodenaron rydbergii	1		17.00	Prevalence Index = B/A = 2.016
6.					Trevalence mack = B/A = 2.070
7.					
					Uvdranhytia Vagatatian Indiastora
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.	Tatal Casas				X Dominance Test is > 50%
	Total Cover =	= 60			X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Rubus pubescens	15	Υ	FACW	
2.	Carex lacustris	10	Υ	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Phalaris arundinacea	10	Υ	FACW	present, unless disturbed or problematic.
4.	Calamagrostis canadensis	10	Υ	FACW	Definitions of Vegetation Strata:
5.	Epilobium coloratum	10	Υ	OBL	
6	Carex stipata	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Symphyotrichum puniceum	5	N	OBL	height (DBH), regardless of height.
8.	Equisetum arvense	3	N	FAC	
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.
13.	Total Cover	60			vvoody vines - vines, regulates of height.
	Total Cover =	= 68	_		
10/ 1 1/ 0/	(D) () (D) () (D) () (D) (D) (D) (D)				
Woody Vine St	tratum (Plot size: 30 ft. radius)				
1.		1		_	
2.	1				
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =				
Remarks:	· · · · · · · · · · · · · · · · · · ·	•			20 feet tall) pussy willow with a shrub layer of red osier dogwood and highbush
	cranberry and a diverse herbaceous layer.	Hydrophytic	c vegetatio	n is prese	ent.
Additional F	Remarks:				