WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R									Date: County:	07/02/14	
Applicant: Enbridge											Kittson
Investigators: EAB/RAJ				Subregion (MLRA or LRR): MLRA 56						State:	MN
Soil Unit: Landform:	I132A Depression				cal Relief:		Classification:			Somela Doint	w-159n49w23-f1
Slope (%):	0 - 2%		Latitude: 48.5		Longitude:		253	Datum:		Sample Point	<u>w-1591149w25-11</u>
		nditions on the site							⊡ No	Section:	
Are Vegetatio		, or Hydrology			xi i (ii iio, oxp		e normal circum			Township:	
Are Vegetation	on 📮 Soil	, or Hydrology	Laturally pr	oblematic?		\square Yes \square No				Range:	Dir:
SUMMARY O			,							- 3-	
Hydrophytic '	Vegetation P	resent?	Yes					Hydric Soil	ls Present?	Yes	
				Yes			Is This Sampling Poin			it Within A W	etland? Yes
Remarks:		l is a shallow mars	h dominated	by cattails ar	id prairie c	ordgrase	s. It is located v	vithin an exe	cavated roa	dside ditch.	Recent heavy rains have affected
	the area.										
HYDROLOG	Y										
		icators (Check all	that apply; N	linimum of on	e primary	or two se	econdary requii	red):	0		
Primary:	A1 - Surface \	Water		П	B11 - Salt (Crust			Secondary:	B6 - Surface S	Soil Cracks
	A2 - High Wa				B13 - Aqua	tic Fauna				B8 - Sparsely	Vegetated Concave Surface
1	A3 - Saturatio				C1 - Hydrog						
	B1 - Water Ma B2 - Sedimen			H	C2 - Dry Se	ed Rhizos	spheres on Living	Roots (not till	• 🗆		Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	osits			C4 - Presei	nce of Re	duced Iron				n Visible on Aerial Imagery
	B4 - Algal Ma				C7 - Thin N		ace		1		
	B5 - Iron Dep B7 - Inundatio	osits In Visible on Aerial Ima	agery		Other (Expl	lain)				D5 - FAC-Neu D7 - Frost-He	tral Test aved Hummocks (LRR F)
	B9 - Water-St		agery							D7 - Host-Hos	
Field Obser	vations:										
Surface Wat			Dept		(in.)			Wetland H	lydrology	Present?	Y
Water Table		Yes 🔲		n:	(in.)			monunum	i yarology i		<u>.</u>
Saturation Present? Yes Depth: 0 (in.)											
			-		,						
Describe Rec		stream gauge, monif	-		evious insp	-					
Describe Reco Remarks:		stream gauge, monit	-		evious insp	-		dside ditch,	the water t	able depth is	unknown.
Remarks:			-		evious insp	-		dside ditch,	the water t	able depth is	unknown.
Remarks: SOILS	Surface wat	ter is present throu	ghout the we	tland. Due to	evious insp digging re	striction	s within the roa		the water t	able depth is	unknown.
Remarks: SOILS Profile Descri	Surface wat		eded to docu	tland. Due to	evious insp digging re cator or co	striction	s within the roa e absence of in	dicators.)	the water t	able depth is	unknown.
Remarks: SOILS Profile Descri	Surface wat	ter is present throu be to the depth ne	eded to docu	tland. Due to	evious insp digging re cator or co	striction	s within the roa e absence of in	dicators.)	the water t	able depth is	unknown.
Remarks: SOILS Profile Descri	Surface wat	ter is present throu be to the depth ne	eded to docu	tland. Due to	evious insp digging re cator or co	striction	s within the roa e absence of in ore Lining, M=Matr	dicators.)	the water t	able depth is	unknown.
Remarks: SOILS Profile Descri	Surface wat	ter is present throu be to the depth ne etion, RM=Reduced Ma	eded to docu	tland. Due to	evious insp digging re cator or co Grains; Locat	onfirm the	s within the roa e absence of in ore Lining, M=Matr	dicators.)	the water t	able depth is	unknown. Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	Surface wat	ter is present throu be to the depth ne- etion, RM=Reduced Ma Matrix	eded to docu atrix, CS=Covere	internet the indi	evious insp digging re cator or co Grains; Locat	strictions onfirm the ion: PL=P Mottle	s within the roa e absence of in ore Lining, M=Matr es	idicators.)		able depth is	
Remarks: SOILS Profile Descri (Type: C=Concer	Surface wat	ter is present throu be to the depth ne- etion, RM=Reduced Ma Matrix	eded to docu atrix, CS=Covere	internet the indi	evious insp digging re cator or co Grains; Locat	strictions onfirm the ion: PL=P Mottle	s within the roa e absence of in ore Lining, M=Matr es	idicators.)		able depth is	
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Surface wat	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Cover	Color (A cator or co Grains; Locat	strictions onfirm the ion: PL=P4 Mottle %	s within the roa e absence of in ore Lining, M=Matr es Type	idicators.)		able depth is	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.)	Surface wat	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu atrix, CS=Cover	internet the indi	A cator or co Grains; Locat	strictions onfirm the ion: PL=P4 Mottle %	s within the roa e absence of in ore Lining, M=Matr es	idicators.)	Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) NRCS Hydr	Surface wat	be to the depth ne- etion, RM=Reduced Ma Matrix Color (Moist)	eded to docu trix, CS=Covere % eck here if in	tland. Due to	evious insp digging re cator or cc Grains; Locat Moist)	strictions onfirm the ion: PL=P4 Mottle %	s within the roa e absence of in ore Lining, M=Matr es Type	Location	Texture	Tor Problematic	Remarks
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WETLAND DETERMINATION DATA FORM

Great Plains Region

September 1 Dominance Test Worksheet 1 Account in proteiner is on if multiplication in the second in the seco	Project/Site:	L3R				Sample Point: w-159n49w23-f1			
Source Many Score Dariant Market with the community. 1.									
Species Name Nominance Test Worksheet 2.			e non-native	species.)					
1.	ree Stratum (% Cover	Dominant	Ind Statue	Dominance Test Worksheet			
2.	1.		<u>/// Cover</u>	Dominant	ind.otatus				
3.						Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)			
5. Percent of Dominant Species That Are OBL, FAOW, or FAC: 100.0% (A/B) 7.						(,			
6.	4.					Total Number of Dominant Species Across All Strata: 1 (B)			
7.	5.								
8. Provalence index Worksheet 9. 10. Total Cover = 10. X 1 = 10. 36. 0. X 3 = 10. 1 × 3 = 10. Septing/Bhue Stratum (Plot aze: 15 ft. radue) 0. X 3 = 10. 1 × 4 = 10. 1 1 1 × 4 = 10. X 5 = 10. 2 1 1 × 4 = 10. 1 × 5 = 10. 3. 1 1 × 5 = 10. <t< td=""><td>6.</td><td></td><td></td><td></td><td></td><td>Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)</td></t<>	6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)			
9. Total Cover = 0 Total Score of the statute of the	7.								
10. Total Cover = 0 PAC spp. 5 x 1 = 10 SeptempShub Statum (Plot size: 15 fl. radue) FACU spp. 0 x 3 = 0 1 - - - - - - - 2 - <td>8.</td> <td></td> <td></td> <td></td> <td></td> <td>Prevalence Index Worksheet</td>	8.					Prevalence Index Worksheet			
Total Cover = O FACW spp. 5 x 2 = 100 Septing/Bhub Stratum (Plot size: 15 ft radius) -						Total % Cover of: Multiply by:			
Spipro/Simule Stratum (Plot size: 15 ft. radius) FAC sop. X 3 = 0 1	10.								
SeptimpSitub Stratum (Plot size: 15 ft, radius) FACU spp x 4 = 1		Total Cover =	0	_					
1									
2.		Stratum (Plot size: 15 ft. radius)							
3.						UPL spp. 0 $X 5 = 0$			
4.									
5. Prevalence Index = BIA =1&22 6.		<u> </u>				i otal <u>82</u> (A) <u>150 (</u> B)			
6.						Drevelence Index = D/A =			
7.						Fievaletice fituex = D/A = 1.029			
8.	-	<u> </u>							
9.						Hydronhytic Vegetation Indicators:			
10. Total Cover =	-								
Total Cover = Herb Stratum (Plot size: 5 ft. radius)		<u></u>							
Image: Stratum (Plot size: 30 ft. radius) Image: Stratum (Plot	10.	 Total Cover =	0						
Herb Stratum (Plot size: 5 ft. radius)				_					
1. Sparing pactimate 60 Y FACW 2. Juncus offusus 10 N OBL * Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic. 4. Symphy argustion 5 N FACW 5. Beckmannia syzigachne 1 N OBL 6 Ciristim avenue 1 N OBL 7. Image: Status of the	Herb Stratum (Plot size: 5 ft. radius)							
3. Typka argustitolia 6 N OBL present, unless disturbed or problematic. 4. Symphystrichum lancealatum 5 N FACW 5. Beckmannia syzigachne 1 N OBL 6 Orisium averse 1 N OBL 7. Image: Construct and averse 1 N OBL 8. Image: Construct averse 1 N FACW 9. Image: Construct averse 1 N FACU 10. Image: Construct averse Image: Construct averse Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height. 10. Image: Construct averse Image: Construct averse Sapling/Shrub - Woody plants, regardless of height. 11. Image: Construct averse Image: Construct averse Image: Construct averse Sapling/Shrub - Woody vines, regardless of height. 14. Image: Construct averse Image: Construct averse Image: Construct averse Image: Construct averse 1. Image: Construct averse 1			60	Y	FACW				
3. Type of an angle and angle	2.	Juncus effusus	10	Ν	OBL				
5. Beckmannia syzigachne 1 N OBL 6 Creium averse 1 N FACU 7.	3.	Typha angustifolia	5	Ν	OBL	present, unless disturbed or problematic.			
6 Ciristum arvense 1 N FACU 7.	4.	Symphyotrichum lanceolatum	5	N	FACW	Definitions of Vegetation Strata:			
7.	5.	Beckmannia syzigachne	1	N	OBL				
8.	-	Cirsium arvense	1	N	FACU	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast			
9.					-	height (DBH), regardless of height.			
10.									
11.						Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.			
12.									
13.						U All berbaceous (non.woody) plants regardless of size			
14.						Herb - All herbaceous (holl-woody) plants, regardless of size.			
15. Woody Vines - All woody vines, regardless of height. Total Cover =82					-				
Total Cover =82 Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 4. Total Cover = 0 Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.						Woody Vines - All woody vines, regardless of height.			
Woody Vine Stratum (Plot size: 30 ft. radius) 1. 2. 3. 3. 5. 4. Total Cover = 0 Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.	15.	Total Cover =	82			troody tindo			
1.			02	_					
1.	Woody Vine St	ratum (Plot size: 30 ft. radius)							
3. Hydrophytic Vegetation Present? Y 5. Hydrophytic Vegetation Present? Y 4. Total Cover = 0 Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.	1.								
5. 4. Total Cover = 0 Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.	2.								
4. Total Cover = 0 Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.						Hydrophytic Vegetation Present? Y			
Total Cover = 0 Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.									
Remarks: The sample site is dominated by prairie cordgrass. Cattails dominate other spots within the community.	4.								
	Domester		-	telle der 1	- 4-				
Additional Remarks:	Remarks:	The sample site is dominated by prairie cord	grass. Cat	ialis domii	nate other	spots within the community.			
Additional Remarks:									
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	L								