WETLAND DETERMINATION DATA FORM Great Plains Region

		1.00	r							T = .		
Project/Site:		L3R								Date:	09/18/14	
Applicant:		Enbridge			Cubrasia	/N/I D A	\ or I DD\;	MIDAGO		County:	Marshall	
Investigators		RAJ/BJC			_Subregio	•	or LRR):	MLRA 56		State:	MN	
Soil Unit: Landform:	I24A Depression			_	cal Relief:		I Classification:			Comple Deint	w-155n46w3-f1	
Slope (%):	0 - 2%		titude: 48.27			-96.544	100	Datum:		Sample Point	W-1331140W3-11	
		onditions on the site ty							□ No	Section:		
Are Vegetati		<u>_</u>	significantly		arr (11 110, 0x	_	e normal circun			Township:		
Are Vegetati			aturally prol			/ " <	✓ Yes		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Range:	Dir:	
SUMMARY (, ,	aturany pro-				_ 100	_ 110		rtarigo.	5	
Hydrophytic			Yes					Hydric Soil	s Present?	Yes		
Wetland Hyd			Yes		_					t Within A W	etland? Yes	
Remarks:				tch on the v	vest side o	f 230th A	Avenue NW. W				e present, and hydric soils	are
	assumed.	•						<u> </u>		,		
HYDROLOG	Υ											
		licators (Check all tha	at apply: Mi	nimum of or	ne nrimary	or two se	econdary requi	red):				
Primary	•	ilcators (Crieck all tric	αι αρριγ, Ινιιι	illinain oi oi	ie primary	OI TWO SE	econdary requi	i c u).	Secondary:			
<u> </u>	A1 - Surface	Water			B11 - Salt	Crust				B6 - Surface S	oil Cracks	
	A2 - High Wa				B13 - Aqua					B8 - Sparsely	Vegetated Concave Surface	
	A3 - Saturation				C1 - Hydro					B10 - Drainage		/ (211 - 1)
	B1 - Water M B2 - Sedimer				C2 - Dry S		iter Table spheres on Living	Poots (not till		C3 - Oxidized C8 - Crayfish I	Rhizospheres on Living Roots	s (tilled)
	B3 - Drift Der	•					duced Iron	1700ts (110t tille		•	n Visible on Aerial Imagery	
	B4 - Algal Ma				C7 - Thin				✓	D2 - Geomorp		
	B5 - Iron Dep				Other (Exp	olain)			✓	D5 - FAC-Neu		
		on Visible on Aerial Image	ery							D7 - Frost-Hea	aved Hummocks (LRR F)	
	b9 - water-S	tained Leaves										
Field Obser	vations											
Surface Wat		Yes □	Depth:		(in)							
Water Table		Yes	Depth:		– (in.) (in.)			Wetland H	lydrology l	Present?	Υ	
		Yes \square	Depth:		– (iii.) (in.)							
							14 11 11					
	<u>`</u>	stream gauge, monitori		al photos, pr	evious insp	pections),	if available:					
Describe Rec Remarks:	<u>`</u>	stream gauge, monitori of wetland hydrology a		al photos, pr	evious insp	pections),	if available:					
Remarks:	<u>`</u>			al photos, pr	revious insp	pections),	if available:					
Remarks:	Indicators of	of wetland hydrology a	are present.		·	·		odicators)				
Remarks: SOILS Profile Descr	Indicators of		ed to docun	nent the ind	icator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descr	Indicators of	of wetland hydrology a	ed to docun	nent the ind	icator or co	onfirm the	e absence of ir					
Remarks: SOILS Profile Descr	Indicators of	of wetland hydrology a	ed to docun	nent the ind	icator or co	onfirm the	e absence of ir ore Lining, M=Matr					
Remarks: SOILS Profile Descr	Indicators of	of wetland hydrology a ibe to the depth need letion, RM=Reduced Matrix	ed to docun	nent the ind	icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr		Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Concer	Indicators of	of wetland hydrology a libe to the depth need letion, RM=Reduced Matrix Matrix	ed to docun	nent the ind	icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks	
Remarks: SOILS Profile Descr (Type: C=Concer	Indicators of	of wetland hydrology a libe to the depth need letion, RM=Reduced Matrix Matrix	ed to docun	nent the ind	icator or co Grains; Loca	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Indicators of	ibe to the depth needeletion, RM=Reduced Matrix Matrix Color (Moist)	ed to docun	nent the ind /Coated Sand Color (icator or co Grains; Loca (Moist)	onfirm the	e absence of ir ore Lining, M=Matr	rix)	Texture		Remarks	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	iption (Description, D=Deportation, D=Deportation, D=Deportation) ric Soil Field A1- Histosol	ibe to the depth needeletion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (check	ed to docun	Color (icator or co Grains; Loca (Moist) not presen	onfirm the	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	iption (Description, D=Deportation, D=Deportation, D=Deportation) ric Soil Field A1- Histosol A2 - Histic Ep	ibe to the depth needeletion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checked)	ed to docun	Color (S5 - Sandy F S6 - Stripped	icator or co Grains; Loca (Moist) not presented	onfirm the otion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	iption (Description, D=Deportation, D=Deportation, D=Deportation) A1- Histosol A2 - Histic Epox A3 - Black Histosol	ibe to the depth needeletion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (checked)	ed to docun	Color (S5 - Sandy F S6 - Stripped F1 - Loamy F	icator or co Grains; Loca (Moist) not present Redox d Matrix Mucky Miner	Mottle % ation: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S	luck (LRR I, J) Prairie Redox (urface (LRR G)	C Soils ¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.)	iption (Description, D=Deportmentation, D=Deportmentation) A1- Histosol A2 - Histic Epox A3 - Black History A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick Expressions and the A12 - Thick Expressions are supplied to the A12 - Thick Expressions and the A12 - Thick Expressions are supplied to the A12 - Thick	ibe to the depth needeletion, RM=Reduced Matrix Matrix Color (Moist) I Indicators (check Cipedon Stic In Sulfide I Layers (LRR F) Ick (LRR FGH) Ick (LRR FGH) Ich Below Dark Surface Dark Surface	ed to docun k, CS=Covered % k here if ind	Color (Color (S5 - Sandy F S6 - Stripped F1 - Loamy F F2 - Loamy F F3 - Deplete F6 - Redox F F7 - Deplete F8 - Redox F	icator or congrains; Local (Moist) not present Matrix Mucky Miner Gleyed Matrix Dark Surfaced Dark	Mottle Mottle // // // // // // // // // // // // /	e absence of inore Lining, M=Matres es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduc TF2 - Red F TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-155n46w3-f1
VEGETATIO	· · ·	re non-native	species.)		
Tree Stratum ((Plot size: 30 ft. radius)	0/ Cavar	Daminant	Ind Ctatus	Dominance Test Worksheet
1.	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	Ind.Status	Dominance rest worksneet
2.					Number of Dominant Species that are OBL, FACW, or FAC: 4 (A)
3.					Number of borninant Species that are OBE, I ACW, of I AC(A)
4.					Total Number of Dominant Species Across All Strata: 4 (B)
5.					Total Number of Dominant Species Across All Strata.
6.					Percent of Deminent Species That Are ORL EACW, or EAC: 100.0% (A/R)
7.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					
10.		. 0			OBL spp. 49 X 1 = 49 FACW spp. 28 X 2 = 56
	rotal cover =				FAC spp. 1 x 3 = 3
Sanling/Shrub 9	Stratum (Plot size: 15 ft. radius)				FACW spp. 28
1.	Salix petiolaris	10	Υ	OBL	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
2.	Cornus alba	5	Y	FACW	στε σρβ. <u> </u>
3.	Corrius alba		•	171011	Total 79 (A) 112 (B)
4.					10tal 179 (A) 172 (B)
5.					Prevalence Index = B/A = 1.418
6.					Trevalence index = B/A = 1.470
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
10.		15			X Prevalence Index is ≤ 3.0 *
	rotal cover =	10			
Harb Ctratum (Diet eizer Eft redius)				Morphological Adaptations (Explain) *
1.	Plot size: 5 ft. radius) Typha X glauca	30	Υ	OBL	Problem Hydrophytic Vegetation (Explain) *
2.				FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Calamagrostis stricta	10	N	FACW	present, unless disturbed or problematic.
4.	Agrostis gigantea	5 5	N	FACW	Definitions of Vegetation Strata:
5.	Asclepias incarnata	5	N N	OBL	Definitions of Vegetation Strata.
6	Carex pellita		N	FACW	Troo - Was to death of (7.0 m)
7.	Mentha arvensis	3	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
8.	Epilobium coloratum		N	OBL	noight (2 2 1 1), regarded a meight
9.	Rorippa palustris	1	N	FACU	Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.	Ambrosia artemisiifolia	1	N	FAC	Sapinig/Siliub - Woody Planto 1000 than 6 this 22th, Togardious of Holgita
11.	Equisetum arvense	1	IN	FAC	
					Herb - All herbaceous (non-woody) plants, regardless of size.
12.					Herb - 7 in horbaccous (non woody) plants, regardeds of size.
13. 14.					
15.					Woody Vines - All woody vines, regardless of height.
15.	Total Cayar	C 4			Woody Villes - All woody villes, regardless of fleight.
	Total Cover =	64	_		
M/ - 1 - 1/2 0/	(District on OO (1 on 1) or				
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.					
2.					Undership Variation Present?
3.					Hydrophytic Vegetation Present? Y
5.					
4.	Total Cover	0			
Damarka	Total Cover =		موناه الموردان	-4	development additional engage are contact love account as a few of the contact love a
Remarks:		•			dgrass with many additional species present at low coverages. There are a few
	scattered willows and dogwoods. Hydrophy	uc vegetati	on is prese	∃⊓l.	
Additional R	Remarks:				