WETLAND DETERMINATION DATA FORM Great Plains Region

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Project/Site:		L3R									Date:	09/16/14
Applicant:		Enbridge				.	<i>(</i> 1.1. – 1.	>	=		County:	Marshall
Investigators		RAJ/BJC				Subregion	n (MLRA o	•	MLRA 56		State:	MN
Soil Unit:	165A							Classification:			_	450 40 00 4
Landform:	Dip			0.00		cal Relief:		20			Sample Point:	w-156n46w33-e1
Slope (%):	0 - 2%		Latitude: 4				-96.57733		Datum:			
		nditions on the site				If : (If no, exp				□ No	Section:	
Are Vegetation	•		•	•	disturbed?		Are r	normal circum	-	esent?	Township:	
Are Vegetation		, ,	□aturally	/ prob	lematic?			□ Yes	☑ No		Range:	Dir:
SUMMARY C												
Hydrophytic \				es						s Present?		
Wetland Hyd				es							t Within A We	
Remarks:	_			•	•				•			naturally low area that has been
				ugh no	o developed ch	nannel is pre	esent. The	vegetation is dis	sturbed from t	illage and her	bicide use. The	e soils are disturbed from tillage.
	•	wetland conditions ar	re met.									
HYDROLOG												
Wetland Hy	drology Indi	cators (Check all t	that apply	y; Min	nimum of one	e primary o	or two sec	condary requir	ed):			
<u>Primary:</u>							_			Secondary:		
	A1 - Surface V					B11 - Salt C				✓	B6 - Surface So	
	A2 - High Wat A3 - Saturation					B13 - Aqua		Odor		☑		/egetated Concave Surface
	B1 - Water Ma						gen Sulfide (eason Wateı				B10 - Drainage	Rhizospheres on Living Roots (tille
									Roots (not tille		C8 - Crayfish B	
_	B2 - Sediment Deposits C3 - Oxidized Rhizospheres on Living Roots (not tills C4 - Presence of Reduced Iron C5 - Oxidized Rhizospheres on Living Roots (not tills C4 - Presence of Reduced Iron C5 - Oxidized Rhizospheres on Living Roots (not tills C4 - Presence of Reduced Iron C5 - Oxidized Rhizospheres on Living Roots (not tills C5 - Oxidized Rhizospheres (n										Visible on Aerial Imagery	
V	B4 - Algal Mat	or Crust				C7 - Thin M	luck Surface	е		✓	D2 - Geomorph	
	B5 - Iron Depo					Other (Expl	lain)				D5 - FAC-Neut	
		n Visible on Aerial Ima	agery								D7 - Frost-Hea	ved Hummocks (LRR F)
	B9 - Water-Sta	ained Leaves										
=:												
Field Observ												
Surface Wate	er Present?	Yes □	D	epth: _		(in.)			Wetland H	ydrology F	Present?	Υ
Water Table	Present?	Yes □	D	epth:		(in.)			Trottana n	, y a		<u> </u>
Saturation Pr	resent?	Yes □	D	epth:		(in.)						
		103	D	epui		(1111.)						
Describe Reco					al photos, pre		ections), if	available:				
	orded Data (s	tream gauge, monit	toring well,	, aeria		vious insp			enosits at th	ne edge. T	hough the we	tland area was planted throug
Describe Reco	orded Data (s There is a d	tream gauge, monit	toring well, d surface	, aeria	cracks throug	vious inspo ghout the	wetland ar	rea and drift d	•	•	•	tland area was planted through
Remarks:	orded Data (s There is a d	tream gauge, monit	toring well, d surface	, aeria	cracks throug	vious inspo ghout the	wetland ar	rea and drift d	•	•	•	•
Remarks:	orded Data (s There is a d this spring, t	tream gauge, monitoried algal crust and here are no soybe	toring well, d surface eans in the	, aeria soil c e wetl	cracks through	evious inspending the violet the	wetland ar t the edge	rea and drift d are stressed.	Indicators	•	•	•
Remarks: SOILS Profile Descri	orded Data (s There is a d this spring, t	tream gauge, monit	toring well, d surface eans in the	soil coum	cracks through and area and area.	ghout the od those at	wetland ar the edge	rea and drift dare stressed. absence of in-	Indicators dicators.)	•	•	•
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	tream gauge, monitoried algal crust and here are no soybeat to the depth need to the	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil coe wetle ocum overed/ 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da	evious inspendent the value of those at cator or coefficients; Location of present edox Matrix ucky Mineralleyed Matrix Matrix ark Surface	wetland are the edge on firm the action: PL=Pore	rea and drift dare stressed. absence of ince Lining, M=Matri	dicators.) x) Location	Texture FSL FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark S0 F16 - High P F18 - Reduce TF2 - Red Page 1 and 1	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressioned Vertic arent Material	Remarks Soils LRR F, G, H) ns (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted	tream gauge, monitoried algal crust and here are no soybeated to the depth need to t	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted	d those at cator or co Grains; Location of present edox Matrix ucky Mineral leyed Matrix Matrix ark Surface Dark Surface	wetland are the edge on firm the action: PL=Pore	rea and drift dare stressed. absence of ince Lining, M=Matri	dicators.) Location	Texture FSL FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark St F16 - High PF18 - Reductor TF2 - Red Protection TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressioned Vertic arent Material Shallow Dark S	Remarks Soils LRR F, G, H) ns (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da	tream gauge, monitoried algal crust and here are no soybeat to the depth need to the	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	evious inspendent the value of those at cator or coerains; Location of present edox Matrix ucky Mineraleyed Matrix Matrix erk Surface pressions	wetland are the edge on firm the action: PL=Pore Mottles %	rea and drift dare stressed. absence of ince Lining, M=Matri	Indicators dicators.) x) Location	Texture FSL FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark St F16 - High PF18 - Reductor TF2 - Red Protection TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depressioned Vertic arent Material	Remarks Soils LRR F, G, H) ns (LRR H, outside MLRA 72, 73)
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Muc	tream gauge, monitoried algal crust and here are no soybeat to the depth need to the	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	evious inspendent the value of those at cator or coerains; Location of present edox Matrix ucky Mineraleyed Matrix Matrix erk Surface pressions	wetland are the edge on firm the action: PL=Pore Mottles %	rea and drift dare stressed. absence of ince Lining, M=Matri	Indicators dicators.) x) Location	Texture FSL FS Indicators for A9 - 1 cm Moder A16 - Coast S7 - Dark S0 F16 - High P F18 - Reductor TF2 - Red Patrice TF12 - Very Other (Explain Annual Patrice) Other (Explain Annual Patrice)	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S in in Remarks)	Remarks Soils LRR F, G, H) ns (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm M	tream gauge, monitoried algal crust and here are no soybeat to the depth need to the	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	evious inspendent the value of those at cator or coerains; Location of present edox Matrix ucky Mineraleyed Matrix Matrix erk Surface pressions	wetland are the edge on firm the action: PL=Pore Mottles %	rea and drift dare stressed. absence of ince Lining, M=Matri	Indicators dicators.) x) Location	Texture FSL FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark St F16 - High PF18 - Reduct TF2 - Red Profile TF12 - Very Other (Explain Indicators of high Pf18 - Indica	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S in in Remarks)	Remarks Soils¹ LRR F, G, H) ns (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Mu S3 - 5 cm Muc	tream gauge, monitoried algal crust and here are no soybeat to the depth need to the	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	evious inspendent the value of those at cator or coerains; Location of present edox Matrix ucky Mineraleyed Matrix Matrix erk Surface pressions	wetland are the edge on firm the action: PL=Pore Mottles %	rea and drift dare stressed. absence of ince Lining, M=Matri	Indicators dicators.) x) Location	Texture FSL FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark St F16 - High PF18 - Reduct TF2 - Red Profile TF12 - Very Other (Explain Indicators of high Pf18 - Indica	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) lains Depressio ed Vertic arent Material Shallow Dark S in in Remarks)	Remarks Soils¹ LRR F, G, H) ns (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	rorded Data (some price or serving the serving of this spring, to this spring, to the serving of	tream gauge, monitoried algal crust and here are no soybeat to the depth need to the	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox Da	evious inspendent the value of those at cator or coerains; Location of present edox Matrix ucky Mineraleyed Matrix Matrix erk Surface pressions	wetland are the edge on firm the action: PL=Pore Mottles %	rea and drift dare stressed. absence of ince Lining, M=Matri	Indicators dicators.) X) Location H)	Texture FSL FS Indicators for A9 - 1 cm Modern A16 - Coast S7 - Dark Start S7 - Dark Start S7 - Reduct TF2 - Red Pattern TF12 - Very Other (Explain Indicators of hyunless disturbed)	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) lains Depressio ed Vertic arent Material Shallow Dark S in in Remarks)	Remarks Soils¹ LRR F, G, H) ns (LRR H, outside MLRA 72, 73) urface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-7 7-18 NRCS Hydr	ic Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Depleted A12 - Thick Da S1 - Sandy Mu S2 - 2.5 cm Muc S1 - Sandy Gle Type:	tream gauge, monitoried algal crust and here are no soybeated to the depth need to t	toring well, d surface eans in the eded to de atrix, CS=Co	, aeria soil comovered/ % 100 100 if indi	cators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G F3 - Depleted F6 - Redox Da F7 - Depleted F8 - Redox De F16 - High Pla	d those at cator or co Grains; Location or co Grains; Location of present edox Matrix ucky Mineral leyed Matrix Matrix eark Surface Dark Surface pressions ains Depressions ains Depressions	wetland are the edge on firm the action: PL=Pore Mottles Mottles in the edge of the edge	absence of ine Lining, M=Matri	Indicators dicators.) x) Location H)	Texture FSL FS Indicators for A9 - 1 cm Model A16 - Coast S7 - Dark Strain F18 - Reduct TF2 - Red Pate TF12 - Very Other (Explain Indicators of hyunless disturbed) Y	or Problematic uck (LRR I, J) Prairie Redox (I urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S in in Remarks) ydrophytic vegetati d or problematic.	Remarks Soils¹ LRR F, G, H) ns (LRR H, outside MLRA 72, 73) urface

WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site	: L3R				Sample Point: w-156n46w33-e1
VEGETATIO	、 .	re non-native	species.)		
Tree Stratum	(Plot size: 30 ft. radius)	0/ 0	Daminant	lead Otativa	Dominance Test Workshoot
4	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet
1.					N
2.					Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)
3.					
4.					Total Number of Dominant Species Across All Strata:(B)
5.					
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.					
8.					Prevalence Index Worksheet
9.					Total % Cover of: Multiply by:
10.					OBL spp. 33 x 1 = 33
	Total Cover =	0			OBL spp. 33
			FAC spp. $4 x 3 = 12$		
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)				FACU spp. $\frac{1}{1}$ $x 4 = \frac{4}{4}$
1.					UPL spp. $0 x 5 = 0$
2.					
3.					Total 43 (A) 59 (B)
4.					
5.					Prevalence Index = B/A = 1.372
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					
10.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	. 0	_		X Prevalence Index is ≤ 3.0 *
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)				Problem Hydrophytic Vegetation (Explain) *
1.	Rorippa palustris	15	Y	OBL	
2.	Chenopodium rubrum	15	Y	OBL	* Indicators of hydric soil and wetland hydrology must be
3.	Persicaria maculosa	5	N	FACW	present, unless disturbed or problematic.
4.	Epilobium coloratum	3	N	OBL	Definitions of Vegetation Strata:
5.	Chenopodium glaucum	3	N	FAC	
6	Equisetum arvense	1	N	FAC	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.	Amaranthus retroflexus	1	N	FACU	height (DBH), regardless of height.
8.					
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.
15.	Tatal Casa	40			Woody Villes - All woody villes, regardless of fleight.
	Total Cover =	43			
	tratum (Plot size: 30 ft. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =				
Remarks:	An annual community in a seasonally-floode	ed depressi	on in a cul	ltivated fie	ld. The area is dominated by common yellowcress and red goosefoot. Hydrophytic
	vegetation is present.	•			
Additional I	Pomarke:				
Additionali	Nemarks.				