## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: Applicant:											
Applicant:		L3R								Date:	09/17/14
		Enbridge								County:	Marshall
Investigators		RAJ/BJC			Subregion	`	or LRR):	MLRA 56		State:	MN
Soil Unit:	I70A					NWI	Classification	: PEMCd			
Landform:	Depression		40.00		cal Relief:	00 == 1				Sample Point:	w-156n46w33-m1
Slope (%):	0 - 2%		le: 48.28		Longitude:			Datum:			
		nditions on the site typic			<b>r?</b> (If no, exp				□ No	Section:	
Are Vegetation	•	□, or Hydrology □sign	•			Are	normal circun	-	esent?	Township:	
Are Vegetation		□, or Hydrology □atu	rally prob	olematic?			Yes	□ No		Range:	Dir:
SUMMARY C											
Hydrophytic \			Yes						Is Present?		(I I I V I
Wetland Hyd			Yes		<del></del>		1 ( )			t Within A W	
Remarks:							•			• •	ttail and reed canary grass. All
	•	of wetland conditions ar	e met. I	he wet mea	dow may I	oe plante	ed through in d	ry years, bu	t was not pl	anted this yea	ar.
HYDROLOGY	Y										
Wetland Hy	drology Indi	cators (Check all that a	ipply; Mir	nimum of one	e primary	or two se	econdary requi	red):			
Primary:		`						·	Secondary:		
	A1 - Surface \				B11 - Salt (					B6 - Surface S	
	A2 - High Wat A3 - Saturatio				B13 - Aqua		o Odor				Vegetated Concave Surface
	B1 - Water Ma				C1 - Hydrog C2 - Dry Se					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled)
	B2 - Sediment				,		pheres on Living	Roots (not till	€ □	C8 - Crayfish E	
	B3 - Drift Dep	•			C4 - Prese			(		•	No Visible on Aerial Imagery
	B4 - Algal Mat				C7 - Thin M		ce		✓	D2 - Geomorp	
	B5 - Iron Depo				Other (Expl	lain)			☑	D5 - FAC-Neu	
	B7 - Inundatio B9 - Water-St	n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	by - water-st	allieu Leaves									
Field Observ	vations:										
		V	D		(in )						
Surface Wate		Yes	Depth:		(in.)			Wetland F	lydrology F	Present?	Υ
Water Table		Yes	Depth:		(in.)						<del></del>
Saturation Pr	esent?	Yes	Depth:								
I			Ворин.		(in.)						
Describe Reco	orded Data (s	tream gauge, monitoring	•	al photos, pre	. ,	ections),	if available:				
Describe Reco	· · · · · · · · · · · · · · · · · · ·		•	al photos, pre	. ,	ections),	if available:				
	· · · · · · · · · · · · · · · · · · ·	tream gauge, monitoring	•	al photos, pre	. ,	ections),	if available:				
Remarks:	Wetland hyd	tream gauge, monitoring drology is present.	well, aeri		vious insp	·					
Remarks:  SOILS Profile Descri	Wetland hyd	tream gauge, monitoring drology is present.	well, aeri	nent the indic	evious insp	onfirm the	e absence of ir				
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Remarks:  SOILS Profile Descri	Wetland hyd	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS	well, aeri	nent the indic	evious insp	onfirm the	e absence of ir ore Lining, M=Mati				
Remarks:  SOILS Profile Descri (Type: C=Concen	Wetland hyd	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS	well, aeri	nent the indic /Coated Sand G	evious insp cator or co Grains; Locat	onfirm the ion: PL=Po	e absence of ir ore Lining, M=Matr	rix)	Toyturo		Domostko
Remarks:  SOILS Profile Descri (Type: C=Concen	Wetland hyd	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS  Matrix Color (Moist)	well, aeri	nent the indic	evious insp cator or co Grains; Locat	onfirm the	e absence of ir ore Lining, M=Mati		Texture		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10	wetland hydelighted ption (Descriptration, D=Depleted Hue_10YR	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1	to docum S=Covered	nent the indic Coated Sand C	evious inspectator or constrains; Locat	onfirm the ion: PL=Po	e absence of ir ore Lining, M=Matr es Type	Location	FSL		Remarks
Remarks:  SOILS Profile Descri (Type: C=Concen	Wetland hyd	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS  Matrix Color (Moist)	well, aeri	nent the indic /Coated Sand G	evious insp cator or co Grains; Locat	onfirm the ion: PL=Po	e absence of ir ore Lining, M=Matr	rix)			Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10	ption (Descrintration, D=Depleted Hue_10YR Hue_2.5Y	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/2	to docum S=Covered	nent the indic Coated Sand C	cator or co Grains; Locat Moist)	Mottle	e absence of ir ore Lining, M=Matr es Type	Location	FSL		Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-18  NRCS Hydri	wetland hydentian (Descriptration, Deplementation, Deplementation)  Hue_10YR  Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/2  Indicators (check heigheden)	well, aeri	Color (Note that I was a second secon	cator or co Grains; Locate Moist)  5/8  ot presentedox Matrix	Mottle %	e absence of ir ore Lining, M=Mati es Type C	Location	FSL FS Indicators f A9 - 1 cm M A16 - Coast	uck (LRR I, J) Prairie Redox (	c Soils <sup>1</sup>
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Remarks:  SOILS Profile Descri (Type: C=Concent  Depth (In.) 0-10 10-18  NRCS Hydri	ption (Descrintration, D=Depleteration, D=Depleteration) Hue_10YR Hue_2.5Y  ic Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroger	tream gauge, monitoring drology is present.  be to the depth needed etion, RM=Reduced Matrix, CS  Matrix  Color (Moist)  2/1  6/2  Indicators (check heads)  ipedon  itic in Sulfide	well, aeri	Color (N Hue_10YR  icators are n S5 - Sandy Re S6 - Stripped F1 - Loamy M F2 - Loamy G	cator or contrains; Locate  Moist)  5/8  ot presentedox Matrix ucky Mineralleyed Matrix	Mottle % 5	e absence of ir ore Lining, M=Mati es Type C	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High P	uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depressio	c Soils <sup>1</sup>
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## WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site: L3R Sample Point: w-156n46w33-m1 **VEGETATION** (Species identified in all uppercase are non-native species.) Tree Stratum (Plot size: 30 ft. radius) **Dominance Test Worksheet** Species Name % Cover **Dominant** Ind.Status 1. 2. Number of Dominant Species that are OBL, FACW, or FAC: 3 (A) 3. 4. Total Number of Dominant Species Across All Strata: 3 (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: OBL spp. 46 x 1 = 10. FACW spp.  $\frac{56}{}$   $\times 2 =$ Total Cover = FAC spp. 5 x 3 = FACU spp. 0 x 4 = UPL spp. 0 x 5 = 0 Sapling/Shrub Stratum (Plot size: 15 ft. radius) FAC 5 1. Populus deltoides 2. 3. Total 107 (A) 173 (B) 4. 5. Prevalence Index = B/A = 1.6176. 7. 8. **Hydrophytic Vegetation Indicators:** 9. Rapid Test for Hydrophytic Vegetation 10. Dominance Test is > 50% Total Cover = 5 Prevalence Index is ≤ 3.0 \* Morphological Adaptations (Explain) \* Herb Stratum (Plot size: 5 ft. radius) Problem Hydrophytic Vegetation (Explain) \* **FACW** 40 1. Juncus torreyi 2. OBL \* Indicators of hydric soil and wetland hydrology must be 30 Beckmannia syzigachne present, unless disturbed or problematic. 3. 10 Ν OBL Alisma triviale **Definitions of Vegetation Strata:** 4. Ν **FACW** 10 Phalaris arundinacea Ν 5. 5 OBL Schoenoplectus tabernaemontani 6 Ν **FACW** Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast 5 Rumex fueginus height (DBH), regardless of height. 7. Ν **FACW** 1 Hordeum jubatum Ν 8. **OBL** Rorippa palustris Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height. 9. 10. 11. 12. **Herb** - All herbaceous (non-woody) plants, regardless of size. 13. 14. Woody Vines - All woody vines, regardless of height. 15. Total Cover = 102 Woody Vine Stratum (Plot size: 30 ft. radius) 2. 3. Hydrophytic Vegetation Present? Y 5. 4. Total Cover = A wet meadow community dominated by Torrey's rush and slough grass. Hydrophytic vegetation is present. Remarks:

**Additional Remarks:**