WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	08/01/14	
Applicant:		Enbridge								County:	Marshall	
Investigators:	:	MRK/BCS/BEH			Subregio	n (MLRA	or LRR):	MLRA 56		State:	MN	
Soil Unit:	165A			_			Classification:					
Landform:	Talf				cal Relief:					Sample Point:	<u>u-157n47w36-a1</u>	
Slope (%):	0 - 2%		atitude: 48.37		Longitude:			Datum				
		onditions on the site t	•		ar? (If no, exp			Yes	□ No	Section:		
Are Vegetation			•	disturbed?		Are	e normal circun	-	esent?	Township:		
Are Vegetation			naturally pro	blematic?				□ No		Range:	Dir:	
SUMMARY C												
Hydrophytic \	•		No		-				ils Present?		// IO N	
Wetland Hyd			No					Is This Sa	mpling Poir	nt Within A W	etland? No	
Remarks:	The upland	sample point is locate	ted in cultiv	ated wheat fi	eld.							
HYDROLOGY	Y											
Wetland Hy	drology Ind	icators (Check all th	at apply; M	inimum of or	e primary	or two se	econdary requi	red):				
Primary:	_								<u>Secondary</u>			
	A1 - Surface				B11 - Salt					B6 - Surface S		
	A2 - High Wa A3 - Saturation				B13 - Aqua		lo Odor				Vegetated Concave Surfa	ace
	B1 - Water M				C1 - Hydro C2 - Dry So					B10 - Drainage	e Patterns Rhizospheres on Living R	Roots (tilled)
	B2 - Sedimer						spheres on Living	Roots (not til	le 🗆	C8 - Crayfish B		toots (tilled)
	B3 - Drift Dep	•					duced Iron	(**************************************			n Visible on Aerial Imager	ry
	B4 - Algal Ma				C7 - Thin N		ace			D2 - Geomorp		
	B5 - Iron Dep				Other (Exp	lain)				D5 - FAC-Neu		
		on Visible on Aerial Imag tained Leaves	ery							D7 - Frost-Hea	aved Hummocks (LRR F)	1
	b9 - water-S	tailled Leaves										
Field Observ	vations:											
		Van 🗖	Danth		(in)							
Surface Water		Yes		:	_ (in.)			Wetland H	Hydrology	Present?	N	
Water Table		Yes	Depth		_ (in.)							
Saturation Pr	resent?	Yes □	Depth	:	(in.)							
					<u> </u>							
Describe Reco	orded Data (stream gauge, monitor	ring well, aeı	ial photos, pr	<u> </u>	ections),	if available:					
Describe Reco	<u> </u>	stream gauge, monitor or secondary hydrolo			evious insp	ections),	if available:					
Remarks:	<u> </u>				evious insp	ections),	if available:					
Remarks:	No primary	or secondary hydrolo	ogical indica	ators observe	evious insp ed.							
Remarks: SOILS Profile Descri	No primary	or secondary hydrological or secondary hydro	ogical indicated to docur	ators observe	evious insped.	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hydrolo	ogical indicated to docur	ators observe	evious insped.	onfirm the	e absence of in					
Remarks: SOILS Profile Descri	No primary	or secondary hydrological hydro	ogical indicated to docur	ators observe	evious insped.	onfirm the	e absence of in ore Lining, M=Matr					
Remarks: SOILS Profile Descri (Type: C=Concen	No primary	or secondary hydrological hydro	ded to docui	ment the indi	evious insped. cator or co	onfirm the	e absence of in ore Lining, M=Matr	ix)	Teyture		Remarks	
Remarks: SOILS Profile Descri (Type: C=Concent	No primary ption (Descr	or secondary hydrological hydro	ded to docur x, CS=Covere	ators observe	evious insped. cator or co	onfirm the	e absence of in ore Lining, M=Matr				Remarks	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15	No primary ption (Descriptration, D=Dep	or secondary hydrological hydro	ded to docur x, CS=Covered	ment the indi	evious insped. cator or cograins; Local	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	FSL			
Remarks: SOILS Profile Descri (Type: C=Concent) Depth (In.) 0-15 15-18	No primary ption (Descriptration, D=Deplementation, D=Deplementation) Hue_10YR Hue_10YR	or secondary hydrological hydro	ded to docur x, CS=Covere	ment the indid/Coated Sand Color (Hue_10YR	evious insped. cator or cograins; Locator Moist)	onfirm the	e absence of in ore Lining, M=Matr es Type C	Location M	FSL SIL	Gravel fragments		
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15	No primary ption (Descriptration, D=Dep	or secondary hydrological hydro	ded to docur x, CS=Covered	ment the indi	evious insped. cator or cograins; Locator Moist)	onfirm the tion: PL=Pe	e absence of in ore Lining, M=Matr es Type	Location	FSL	Gravel fragments		
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black History	or secondary hydrological between the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (checking the depth need on stice)	ded to docur x, CS=Covere % 100 85 99	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	evious inspect. cator or cograins; Local Moist) 2/1 3/3 not presented ox Matrix Mucky Minera	Mottle Mottle 15 1	e absence of incore Lining, M=Matrees Type C C	Location M M	FSL SIL FSL Indicators A9 - 1 cm N A16 - Coasi S7 - Dark S	for Problemation Muck (LRR I, J) t Prairie Redox (Surface (LRR G)	Soils¹ (LRR F, G, H)	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	or secondary hydrological between the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (checking Sulfide)	gical indicated to docure x, CS=Covere % 100 85 99 ck here if ind	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are in \$5 - Sandy R \$6 - Stripped \$1 - Loamy N \$72 - Loamy O	evious insped. cator or cograins; Local Moist) 2/1 3/3 not presented with the company of th	Mottle Mottle 15 1	e absence of incore Lining, M=Matrees Type C C	Location M M	FSL SIL FSL Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I	for Problemation Muck (LRR I, J) It Prairie Redox (Burface (LRR G) Plains Depression	c Soils ¹	
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified	or secondary hydrological between the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (checking the depth need on stice)	ded to docur x, CS=Covere % 100 85 99	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	evious inspect. cator or configurations; Locate Moist) 2/1 3/3 not presented with the configuration of the co	Mottle % 15 1 t):	e absence of incore Lining, M=Matrees Type C C	Location M M	FSL SIL FSL Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduce	for Problemation Muck (LRR I, J) It Prairie Redox (Burface (LRR G) Plains Depression	Soils¹ (LRR F, G, H)	
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	or secondary hydrological between the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (check in Sulfide I Layers (LRR FGH) ed Below Dark Surface eark Surface eark Surface	gical indicated and the second	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspect. cator or congrains; Local Moist) 2/1 3/3 not presented Matrix Mucky Mineral Bleyed Matrix Mat	Mottle % 15 1 t):	e absence of inore Lining, M=Matres Type C C	Location	FSL SIL FSL Indicators A9 - 1 cm N A16 - Coas S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very	for Problemation Muck (LRR I, J) t Prairie Redox (Burface (LRR G) Plains Depression Ced Vertic Parent Material	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	or secondary hydrological be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (check in Sulfide I Layers (LRR F) ck (LRR FGH) ed Below Dark Surface ark Surface ucky Mineral Mucky Peat or Peat (LRR	gical indicated and the population of the popula	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspect. cator or congrains; Local Moist) 2/1 3/3 not presented Matrix Mucky Mineral Bleyed Matrix Mat	Mottle % 15 1 t):	e absence of inore Lining, M=Matres Type C C	Location	FSL SIL FSL Indicators A9 - 1 cm M A16 - Coasi S7 - Dark S F16 - High I F18 - Reduc TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) It Prairie Redox (Courface (LRR G) Plains Depression Ced Vertic Parent Material If Shallow Dark Stain in Remarks)	E Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	ict he present
Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	or secondary hydrological be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (check in Sulfide I Layers (LRR FGH) ed Below Dark Surface eark Surface lucky Mineral Mucky Peat or Peat (LRR FGK) Cky Peat or Peat (LRR FGK) Cky Peat or Peat (LRR FGK) Cky Peat or Peat (LRR FGK)	gical indicated and the population of the popula	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	evious inspect. cator or congrains; Local Moist) 2/1 3/3 not presented Matrix Mucky Mineral Bleyed Matrix Mat	Mottle % 15 1 t):	e absence of inore Lining, M=Matres Type C C	Location	FSL SIL FSL Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Expl	for Problemation Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	E Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	ıst be present,
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Remarks: SOILS Profile Descri (Type: C=Concent Depth (In.) 0-15 15-18 18-25 NRCS Hydri	Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black Hi A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu S4 - Sandy G	or secondary hydrological be to the depth need etion, RM=Reduced Matrix Matrix Color (Moist) 2/1 5/4 4/2 Indicators (check in Sulfide I Layers (LRR FGH) ed Below Dark Surface fucky Mineral Mucky Peat or Peat (LRR FGK) ed Peat or Peat (LRR FGK) ed Matrix	gical indicated and the population of the popula	ment the indid/Coated Sand Color (Hue_10YR Hue_2.5YR dicators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D F16 - High P	evious inspect. cator or congrains; Local Moist) 2/1 3/3 not presented Matrix Mucky Mineral Matrix Mat	Mottle % 15 1 t):	e absence of inore Lining, M=Matres Type C C C RA 72, 73 of LRF	Location	FSL SIL FSL Indicators A9 - 1 cm N A16 - Coast S7 - Dark S F16 - High I F18 - Reduct TF2 - Red F TF12 - Very Other (Explain	for Problemation Muck (LRR I, J) t Prairie Redox (curface (LRR G) Plains Depression ced Vertic Parent Material of Shallow Dark Stain in Remarks)	E Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface	ıst be present,
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R			Sample Point: u-157n47w36-a1
				<u> </u>
VEGETATIO		re non-native species.)		
Tree Stratum ((Plot size: 30 ft. radius)			
	Species Name	% Cover Dominant	Ind.Status	Dominance Test Worksheet
1.				
2.				Number of Dominant Species that are OBL, FACW, or FAC:(A)
3.				
4.				Total Number of Dominant Species Across All Strata:1 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				
8.				Prevalence Index Worksheet
9.				Total % Cover of: Multiply by:
10.				OBL spp 0
	Total Cover =	=		FACW spp. $\underline{\qquad}$ \times 2 = $\underline{\qquad}$ $\underline{\qquad}$
				Total % Cover or: Multiply by: OBL spp. 0 X 1 = 0 FACW spp. 0 X 2 = 0 FAC spp. 0 X 3 = 0 FACU spp. 0 X 4 = 0 UPL spp. 90 X 5 = 450
Sapling/Shrub	Stratum (Plot size: 15 ft. radius)			FACU spp. $0 x 4 = 0$
1.				UPL spp 90
2.				
3.		ı <u></u>		Total 90 (A) 450 (B)
4.				
5.				Prevalence Index = B/A = 5.000
6.				
7.				
8.				Hydrophytic Vegetation Indicators:
9.				Rapid Test for Hydrophytic Vegetation
10.				Dominance Test is > 50%
	Total Cover =	0		Prevalence Index is ≤ 3.0 *
				Morphological Adaptations (Explain) *
Herb Stratum (Plot size: 5 ft. radius)			Problem Hydrophytic Vegetation (Explain) *
1.	Triticum aestivum	90 Y	NI	
2.				* Indicators of hydric soil and wetland hydrology must be
3.				present, unless disturbed or problematic.
4.				Definitions of Vegetation Strata:
5.				
6				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
7.				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.
10.	Total Cover =	= 90		
	Total Gover =			
Woody Vino St	ratum (Plot size: 30 ft. radius)			
1	Tatum (Flot Size. 30 ft. fadius)			
2.				
3.			<u> </u>	Hydrophytic Vegetation Present? N
5.				Trydrophytic vegetation Fresent:
4.				
4.	Total Cover =	= 0		
Remarks:	The upland sample area is dominated by cu			
Nemarks.	The upland sample area is dominated by cu	ilivaled wrieat.		
Additional R	Remarks:			