WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	06/25/14	
Applicant:		Enbridge								County:	Marshall	
Investigators		EAB/NTT/KRG			Subregior	•	,	MLRA 56		State:	MN	
Soil Unit:	I133A			NWI Classification:								
Landform:	Depression				cal Relief:					Sample Point:	w-158n48w16-a1	
Slope (%):	0 - 2%		de: 48.514		Longitude:			Datum:				
		nditions on the site typic			ar? (If no, exp	ī			☑ No	Section:		
Are Vegetati		☑, or Hydrology ☑sigr	•			Are	e normal circum	-	esent?	Township:		
Are Vegetati			irally prob	olematic?			Yes	□ No		Range:	Dir:	
SUMMARY OF FINDINGS												
	Vegetation Pr		Yes		_			Hydric Soil				
			Yes					Is This San	npling Poin	t Within A We	etland? Yes	
Remarks:	The wetland	l is a fresh meadow loca	ated withi	n a roadside	e ditch. Wo	olly sed	e, fowl bluegrass, and quackgrass d			ominate the c	ommunity. The ditch drains a	
planted soybean field and intersects existing pipelines to the east.												
HYDROLOGY												
Wetland Hy	drology Indi	cators (Check all that a	annly: Mir	nimum of on	e nrimary	or two se	econdary requir	ed):				
Primary	• •	Cators (Check all that a	арріу, ічііі	iii iidiii Oi Oii	e primary i	OI TWO SE	scondary require	eu).	Secondary:			
<u>i iiiiai y</u>	<u>·</u>	Vater			B11 - Salt (Crust				B6 - Surface S	oil Cracks	
					B13 - Aqua						/egetated Concave Surface	
✓	A3 - Saturatio				C1 - Hydro		e Odor			B10 - Drainage	_	
	B1 - Water Ma				C2 - Dry Se						Rhizospheres on Living Roots (tilled)	
	B2 - Sediment	•					pheres on Living I	Roots (not tille		C8 - Crayfish E		
	B3 - Drift Depo				C4 - Preser						Visible on Aerial Imagery	
	B4 - Algal Mat			☐ C7 - Thin Muck Surface ☐						D2 - Geomorph D5 - FAC-Neut		
	B5 - Iron Depo	n Visible on Aerial Imagery			Other (Expl	iain)					ved Hummocks (LRR F)	
	B9 - Water-St									D1 - 1 105t-11ea	ved Hammocks (LIXIX I)	
1	Do Water Of											
Field Obser	vations:											
		Vac = =	Donth	4	(in)							
Surface Wat		Yes ☑	Depth:		_ (in.)			Wetland H	ydrology F	Present?	Υ	
Water Table		Yes	Depth:		_ (in.)							
Saturation P	resent?	Yes ☑	Depth:	U	(in.)							
			'									
Describe Rec	orded Data (s	tream gauge, monitoring	<u> </u>	al photos, pre	` ` ′	ections),	if available:					
Describe Rec Remarks:	<u> </u>		well, aeria		evious insp			er table dep	th is unkno	wn since soils	s could not be sampled due to	
	Recent heav	vy rains have influenced	well, aeria	saturation a	evious insp			er table dep	th is unkno	wn since soils	s could not be sampled due to	
	Recent heav		well, aeria	saturation a	evious insp			er table dep	th is unkno	wn since soils	s could not be sampled due to	
Remarks: SOILS Profile Descr	Recent heave potential but iption (Descri	yy rains have influenced ried utilities within the robe to the depth needed	well, aerial desired to docum	saturation a itch.	evious insp nd surface cator or co	water d	epths. The water	dicators.)	th is unkno	wn since soils	s could not be sampled due to	
Remarks: SOILS Profile Descr	Recent heave potential but iption (Descri	vy rains have influenced ried utilities within the ro	well, aerial desired to docum	saturation a itch.	evious insp nd surface cator or co	water d	epths. The water	dicators.)	th is unkno	wn since soils	s could not be sampled due to	
Remarks: SOILS Profile Descr	Recent heave potential but iption (Descri	ried utilities within the robe to the depth needed etion, RM=Reduced Matrix, Co	well, aerial desired to docum	saturation a itch.	evious insp nd surface cator or co	water donfirm the	epths. The water e absence of incore Lining, M=Matrix	dicators.)	th is unkno	wn since soils	s could not be sampled due to	
Remarks: SOILS Profile Descr	Recent heave potential but iption (Descri	yy rains have influenced ried utilities within the robe to the depth needed	well, aerial desired to docum	saturation a itch.	evious insp nd surface cator or co	water d	epths. The water e absence of incore Lining, M=Matrix	dicators.)	th is unkno	wn since soils	s could not be sampled due to	
Remarks: SOILS Profile Descr	Recent heave potential but iption (Descri	ried utilities within the robe to the depth needed etion, RM=Reduced Matrix, Co	well, aerial desired to docum	saturation a itch.	evious insp nd surface cator or co Grains; Locat	water donfirm the	epths. The water e absence of incore Lining, M=Matrix	dicators.)	th is unkno	wn since soils	s could not be sampled due to Remarks	
Remarks: SOILS Profile Descr (Type: C=Concer	Recent heave potential but iption (Descri	yy rains have influenced ried utilities within the ro be to the depth needed etion, RM=Reduced Matrix, Ca Matrix	well, aeria d current s padside d to docum S=Covered	saturation a itch. nent the indi /Coated Sand (evious insp nd surface cator or co Grains; Locat	e water dependent on the continuation: PL=Po	epths. The water e absence of incore Lining, M=Matrix	dicators.) ×)		wn since soils		
Remarks: SOILS Profile Descr (Type: C=Concer	Recent heave potential but iption (Descri	yy rains have influenced ried utilities within the ro be to the depth needed etion, RM=Reduced Matrix, Ca Matrix	well, aeria d current s padside d to docum S=Covered	saturation a itch. nent the indi /Coated Sand (evious insp nd surface cator or co Grains; Locat	e water dependent on the continuation: PL=Po	epths. The water e absence of incore Lining, M=Matrix	dicators.) ×)		wn since soils		
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Remarks: SOILS Profile Descr (Type: C=Concer	Recent heave potential but iption (Descri	yy rains have influenced ried utilities within the ro be to the depth needed etion, RM=Reduced Matrix, Ca Matrix	well, aeria d current s padside d to docum S=Covered	saturation a itch. nent the indi /Coated Sand (evious insp nd surface cator or co Grains; Locat	e water dependent on the continuation: PL=Po	epths. The water e absence of incore Lining, M=Matrix	dicators.) ×)		wn since soils		
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Remarks: SOILS Profile Descr (Type: C=Concer	Recent heave potential but iption (Descri	yy rains have influenced ried utilities within the ro be to the depth needed etion, RM=Reduced Matrix, Ca Matrix	well, aeria d current s padside d to docum S=Covered	saturation a itch. nent the indi /Coated Sand (evious insp nd surface cator or co Grains; Locat	e water dependent on the continuation: PL=Po	epths. The water e absence of incore Lining, M=Matrix	dicators.) ×)		wn since soils		
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Recent heave potential but iption (Descrintration, D=Depleter)	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist)	well, aeria d current s padside d to docum S=Covered	saturation a itch. nent the individual (Coated Sand Color (I	evious insp nd surface cator or co Grains; Locat	monfirm the months of the mont	e absence of incore Lining, M=Matrix	dicators.) ×)		wn since soils		
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Recent heave potential but iption (Descri	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist)	well, aeria d current s padside d to docum S=Covered	saturation a itch. nent the indi /Coated Sand (evious insp nd surface cator or co Grains; Locat	monfirm the months of the mont	epths. The water e absence of incore Lining, M=Matrix	dicators.) ×)		wn since soils		
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Recent heave potential but iption (Descrintration, D=Depleter)	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist)	well, aeria d current s padside d to docum S=Covered % ere if indi	saturation a itch. nent the individual coated Sand Coolor (I	evious insp nd surface cator or co Grains; Locat Moist) not present	monfirm the months of the mont	e absence of incore Lining, M=Matrix	Location	Texture Indicators f	or Problematic	Remarks	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Recent heave potential but iption (Descrintration, D=Deple policy) ric Soil Field A1- Histosol	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check have influenced within the rouse including the rouse including the rouse influenced within the rouse influenced within the rouse including the rouse influenced within the rouse including the rouse influenced within the rouse including the rouse influenced within the rouse influenced within the rouse including the rouse influenced within the rouse including the rouse influenced within the rouse influenced within the rouse including the rouse influenced within the rou	well, aeria d current s adside d to docum S=Covered % ere if indi	saturation a itch. nent the individual of the i	evious insp nd surface cator or co Grains; Locat Moist) not present	monfirm the months of the mont	e absence of incore Lining, M=Matrix	dicators.) x) Location	Texture Indicators f A9 - 1 cm M	or Problematic	Remarks	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	Recent heave potential but iption (Descrintration, D=Depleter) ric Soil Field A1- Histosol A2 - Histic Epi	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check hard)	well, aeria d current s adside d to docum S=Covered % ere if indi	saturation a itch. nent the individual of the i	evious insp nd surface cator or co Grains; Locat Moist) not present edox Matrix	monfirm the months of the mont	e absence of incore Lining, M=Matrix	Location	Indicators for A9 - 1 cm M A16 - Cost F	or Problematic uck (LRR I, J) Prairie Redox (L	Remarks	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.)	Recent heave potential but iption (Descrintration, D=Deple for Soil Field A1- Histosol A2 - Histic Epi A3 - Black History	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check happed on etic)	well, aeria d current s adside d to docum S=Covered % ere if indi	coated Sand Coated Sand Coated Sand Color (Incators are response) S5 - Sandy R S6 - Stripped F1 - Loamy N	evious insp nd surface cator or co Grains; Locat Moist) not present edox Matrix Mucky Minera	monfirm the months with the mo	e absence of incore Lining, M=Matrix	Location	Indicators for A9 - 1 cm M A16 - Cost F S7 - Dark St	or Problemation uck (LRR I, J) Prairie Redox (Lurface (LRR G)	Remarks Soils ¹ RR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	potential but iption (Descrintration, D=Deple for Soil Field A1- Histosol A2 - Histic Epi A3 - Black Histoger	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check have in Sulfide)	well, aeria d current s adside d to docum S=Covered % ere if ind	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Color (Coated Sand Coated S	evious insp nd surface cator or co Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix	monfirm the months with the mo	e absence of incore Lining, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High P	or Problemation uck (LRR I, J) Prairie Redox (Lurface (LRR G) Plains Depression	Remarks	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black Histoger A5 - Stratified	wy rains have influenced ried utilities within the respective to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check have a Sulfide Layers (LRR F)	well, aeria d current s adside d to docum S=Covered % ere if ind	color (I S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted	evious insp nd surface cator or co Grains; Locat Moist) not present edox Matrix Mucky Minera Gleyed Matrix Matrix	monfirm the months of the mont	e absence of incore Lining, M=Matrix	Location	Indicators f A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High P F18 - Reduc	or Problemation uck (LRR I, J) Prairie Redox (Lurface (LRR G) Plains Depression ed Vertic	Remarks Soils ¹ RR F, G, H)	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc	wy rains have influenced ried utilities within the room be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check have a Sulfide Layers (LRR F) ck (LRR FGH)	well, aeria d current s adside d to docum S=Covered % ere if indi	coated Sand Coated Sand Coated Sand Color (Coated Sand Coated Sand Color (Coated Sand Coated Sand	evious insp nd surface cator or co Grains; Locat Moist) not present edox Matrix Mucky Minera Gleyed Matrix dark Surface	monfirm the months with the mo	e absence of incore Lining, M=Matrix	Location	Indicators for A9 - 1 cm M A16 - Cost For S7 - Dark Store F16 - High Post F18 - Reductor TF2 - Red Post F18 - Reductor F18 - R	or Problematic uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ed Vertic arent Material	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete	wy rains have influenced ried utilities within the rouse be to the depth needed etion, RM=Reduced Matrix, Comparison (Moist) Indicators (check have a Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface	well, aeria dicurrent s padside d to docum S=Covered % ere if indi	color (Inches in the individual of the individua	evious insp nd surface cator or co Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Bleyed Matrix dark Surface d Dark Surface	monfirm the months with the mo	e absence of incore Lining, M=Matrix	Location	Indicators for A9 - 1 cm M A16 - Cost For S7 - Dark Store F16 - High Power F18 - Reductor TF2 - Red Power TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox (Lurface (LRR G) Plains Depression arent Material Shallow Dark S	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72, 73)	
Remarks: SOILS Profile Descr (Type: C=Concel Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick Di	wy rains have influenced ried utilities within the room be to the depth needed etion, RM=Reduced Matrix, Comparison (Color (Moist) Indicators (check have a Sulfide Layers (LRR F) ck (LRR FGH) de Below Dark Surface ark Surface ark Surface	well, aeria discurrent soadside d to docum S=Covered % ere if indi	color (Inch.) Color	evious insp nd surface cator or co Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix dark Surface d Dark Surface depressions	monfirm the months of the mont	e absence of incore Lining, M=Matrixes Type	Location	Indicators for A9 - 1 cm M A16 - Cost For S7 - Dark Store F16 - High Power F18 - Reductor TF2 - Red Power TF12 - Very	or Problematic uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ed Vertic arent Material	Remarks Soils¹ RR F, G, H) Ons (LRR H, outisde MLRA 72, 73)	
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Remarks: SOILS Profile Descr (Type: C=Concer Depth (In.)	ric Soil Field A1- Histosol A2 - Histic Epi A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Muc A11 - Deplete A12 - Thick D S1 - Sandy Mi S2 - 2.5 cm M	wy rains have influenced ried utilities within the root be to the depth needed etion, RM=Reduced Matrix, Comparison (Check have a Color (Moist) Indicators (check hav	well, aeria current s cadside d to docum S=Covered % ere if indi	color (Inch.) Color	evious insp nd surface cator or co Grains; Locat Moist) Moist) not present edox Matrix Mucky Minera Gleyed Matrix dark Surface d Dark Surface depressions	monfirm the months of the mont	e absence of incore Lining, M=Matrixes Type	Location	Indicators for A9 - 1 cm M A16 - Cost F S7 - Dark St F16 - High P F18 - Reduct TF2 - Red P TF12 - Very Other (Explain Indicators of h	or Problematic uck (LRR I, J) Prairie Redox (L urface (LRR G) Plains Depression ed Vertic arent Material Shallow Dark S ain in Remarks)	Remarks Soils¹ RR F, G, H) ons (LRR H, outisde MLRA 72, 73) turface	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	L3R				Sample Point: w-158n48w16-a1				
					•				
VEGETATION		e non-native	species.)						
Tree Stratum ((Plot size: 30 ft. radius)								
	<u>Species Name</u>	% Cover	<u>Dominant</u>	Ind.Status	Dominance Test Worksheet				
1.									
2.					Number of Dominant Species that are OBL, FACW, or FAC:3(A)				
3.									
4.					Total Number of Dominant Species Across All Strata:4(B)				
5.									
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 75.0% (A/B)				
7.	<u> </u>								
8.					Prevalence Index Worksheet				
9.					Total % Cover of: Multiply by:				
10.	Total Cover –	0			OBL spp. 25				
	Total Cover = _	0	_		FACVV spp. 25 $\times 2 = 50$				
O . Il /Ob wish (Or to the second				FAC spp. $\frac{15}{25}$ \times $\frac{3}{3}$ \times $\frac{45}{35}$				
	Stratum (Plot size: 15 ft. radius)				FACU spp. 25 $X 4 = 100$				
1. 2.					UPL spp. $0 x 5 = 0$				
3.	_				Total 00 (A) 220 (B)				
					Total 90 (A) 220 (B)				
<u>4.</u> 5.	_				Drovolonce Index - P/A - 2 444				
6.					Prevalence Index = B/A = 2.444				
7.	_								
8.					Hydrophytic Vegetation Indicators:				
9.					Rapid Test for Hydrophytic Vegetation				
10.	-				X Dominance Test is > 50%				
10.		0			X Dominance rest is > 50% X Prevalence Index is ≤ 3.0 *				
	10tai 00vci –_	U	_						
Harb Stratum (District Eth radius				Morphological Adaptations (Explain) *				
1.	Plot size: 5 ft. radius) Elymus repens	25		FACU	Problem Hydrophytic Vegetation (Explain) *				
2.	Poa palustris	25 15		FACW	* Indicators of hydric soil and wetland hydrology must be				
3.	Carex pellita	15	Y	OBL	present, unless disturbed or problematic.				
4.	Apocynum cannabinum	15	<u> </u>	FAC	Definitions of Vegetation Strata:				
5.	Rumex stenophyllus	10	<u>'</u> N	FACW	Deminions of Vegetation offata.				
6	Rorippa palustris	5	N	OBL	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast				
7.	Beckmannia syzigachne	<u>5</u>	N	OBL	height (DBH), regardless of height.				
8.	Deck manna Syzigacime								
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							
	10141 00101 -		_						
Woody Vine St	ratum (Plot size: 30 ft. radius)								
1.	ratum (1 lot 3126. 56 ft. radias)								
2.									
3.					Hydrophytic Vegetation Present?				
5.									
4.									
	Total Cover =	0							
Remarks:			and fowl	bluegrass	s with dogbane and narrow-leaf dock also present in notable abundance.				
		rony coage	,,		The state of the s				
Additional Remarks:									
Additional is	temarks:								