WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:		L3R								Date:	09/24/14
Applicant: Enbridge							County:	Marshall			
Investigators	¥				_Subregio	•	State:	MN			
Soil Unit:	I24A			_			I Classification:	·			
Landform:	Rise				cal Relief:					Sample Point:	u-155n45w34-l1
Slope (%):	3 - 7%		e: 48.19		Longitude			Datum:		1	
		nditions on the site typical			ar? (If no, ex	T			□ No	Section:	
Are Vegetation			-	disturbed?		Are	e normal circun	•	esent?	Township:	
Are Vegetation			ally prob	olematic?				□ No		Range:	Dir:
SUMMARY C											
Hydrophytic '	_		No		-				Is Present?		
	Irology Prese		No							t Within A W	
Remarks: The upland point is located on a rise in a farmed soybean field with no vegetation growing besides soybeans and small clumps of creeping wild rye.											
HYDROLOG	Υ										
Wetland Hy	drology Indi	icators (Check all that a	oply; Mir	nimum of or	e primary	or two s	econdary requi	red):			
Primary	•	`	1 37		'		, ,	,	Secondary:		
	A1 - Surface \			B11 - Salt			B6 - Surface S				
	A2 - High Wa				B13 - Aqua						Vegetated Concave Surface
	A3 - Saturatio B1 - Water Ma				C1 - Hydro C2 - Dry S					B10 - Drainage	e Patterns Rhizospheres on Living Roots (tilled
	B2 - Sedimen						spheres on Living	Roots (not till	le 🗆	C8 - Crayfish I	
	B3 - Drift Dep	•					educed Iron			•	n Visible on Aerial Imagery
	B4 - Algal Ma	t or Crust			C7 - Thin N	Muck Surfa	ace			D2 - Geomorp	hic Position
	B5 - Iron Dep				Other (Exp	olain)				D5 - FAC-Neu	
		n Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-St	ained Leaves									
Field Observ	votiono.										
Field Observ			_		<i>(</i>)						
Surface Wat		Yes	Depth:		_ (in.)			Wetland F	Hydrology I	Present?	N
Water Table		Yes	Depth:		_ (in.)				.,		<u> </u>
Saturation Present? Yes Depth: (in.)											
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (s	stream gauge, monitoring v	well, aeri	al photos, pr	evious insp	pections),	l , if available:				
Describe Rec Remarks:		stream gauge, monitoring which has been been been been been been been bee			evious insp	ections),	if available:				
					evious insp	ections),	if available:				
Remarks:	No wetland	hydrology indicators are	present		·	,					
Remarks: SOILS Profile Descri	No wetland	hydrology indicators are be to the depth needed t	present o docum	nent the indi	cator or co	onfirm th	e absence of ir				
Remarks: SOILS Profile Descri	No wetland	hydrology indicators are	present o docum	nent the indi	cator or co	onfirm th	e absence of ir				
Remarks: SOILS Profile Descri	No wetland	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS	present o docum	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr				
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS	present o docum =Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	rix)			Describe
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descri	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docum =Covered	nent the indi	cator or co	onfirm th	e absence of in ore Lining, M=Matr		Texture		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist)	present o docum =Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	rix)	Texture SCL		Remarks
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descri	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docum =Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	rix)	_		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descri	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist)	o docum =Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P	e absence of in ore Lining, M=Matr	rix)	_		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25	No wetland iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1	o docum =Covered	nent the indi /Coated Sand	cator or co	onfirm th tion: PL=P Mottl	e absence of in ore Lining, M=Matr	rix)	_		Remarks
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25	No wetland iption (Descri	be to the depth needed tetion, RM=Reduced Matrix Color (Moist) 2/1	o docum =Covered	nent the indi /Coated Sand Color (cator or co Grains; Loca Moist)	onfirm th tion: PL=P Mottl	e absence of in fore Lining, M=Matr es Type	Location	SCL Indicators f	or Problemation	
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	No wetland iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR ric Soil Field A1- Histosol A2 - Histic Ep	be to the depth needed to the tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check he ipedon	o docum =Covered	Color (S5 - Sandy R S6 - Stripped	cator or cograins; Loca Moist) not presented a matrix	Mottle %	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	No wetland iption (Descrintration, D=Deplementation, D=Deplementation) Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check head)	o docum =Covered	Color (S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or cograins; Loca Moist) not presented a matrix Mucky Miner	mottle which was also as a second confirm the tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	luck (LRR I, J) Prairie Redox (urface (LRR G)	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic n Sulfide	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C	cator or configurations; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix	mottle which was also as a second confirm the tion: PL=P	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic in Sulfide Layers (LRR F)	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix	mottle which was all x	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic	c Soils ¹ (LRR F, G, H)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogei A5 - Stratified A9 - 1 cm Mui	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check heatice in Sulfide Layers (LRR F) ck (LRR FGH)	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Matrix Matrix Matrix Matrix Matrix	mottle which was all x	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark Si F16 - High F F18 - Reduct TF2 - Red P	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)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicators are be to the depth needed to etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	cator or configurations; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Blook Surface	mottle which was all and a second conformations of the conformation with the conformatio	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Dark Surface Depressions	mottle with the second	e absence of interesting the ses	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P 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)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	hydrology indicators are be to the depth needed to etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR G, F)	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Dark Surface Depressions	mottle with the second	e absence of in fore Lining, M=Matr es Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ed Vertic Parent Material Shallow Dark S	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR G, F cky Peat or Peat (LRR F)	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Dark Surface Depressions	mottle with the second	e absence of interesting the ses	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR G, F cky Peat or Peat (LRR F)	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Dark Surface Depressions	mottle with the second	e absence of interesting the ses	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression Red Vertic Parent Material Shallow Dark S Rain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-25 NRCS Hydr	Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroger A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick D S1 - Sandy M S2 - 2.5 cm M S3 - 5 cm Mu	hydrology indicators are be to the depth needed tetion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 Indicators (check here) ipedon stic in Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface ucky Mineral flucky Peat or Peat (LRR G, F cky Peat or Peat (LRR F)	o docum =Covered % 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy C F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Local Moist) Moist) not present edox Matrix Mucky Miner Gleyed Matrix Matrix Park Surface Dark Surface Depressions	mottle with the second	e absence of interesting the ses	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Explain	luck (LRR I, J) Prairie Redox (urface (LRR G) Plains Depression ced Vertic Parent Material Shallow Dark S ain in Remarks)	c Soils ¹ (LRR F, G, H) Ons (LRR H, outside MLRA 72, 73) Surface
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WETLAND DETERMINATION DATA FORM

Great Plains Region

Project/Site:	L3R				Sample Point: u-155n45w34-I1
					· · · · · · · · · · · · · · · · · · ·
VEGETATIO	N (Species identified in all uppercase are	e 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: 0 (A)
3.					
4.					Total Number of Dominant Species Across All Strata: 2 (B)
5.					`` '
6.					Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.					(C_2)
8.					Prevalence Index Worksheet
9.					
10.					Total % Cover of: OBL cap V 1 — OBL cap OBL cap
10.	Total Cover =	0			OBL spp. 0
	Total Cover =	0			FAC on
Combiner/Observe	Otherstown (Diet sine) 45 ft medicus)				FACILITY $\frac{0}{\sqrt{3}}$ $\frac{1}{\sqrt{3}}$
4	Stratum (Plot size: 15 ft. radius)				FACU Spp. 25 X 4 = 100
1.					UPL spp. 50 $x = 250$
2.					T-4-1 75 (A)
3.					Total 75 (A) 350 (B)
4.					
5.					Prevalence Index = B/A = 4.667
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.	Glycine max	50	Υ	NI	TTODIONTTY arophytic Vegetation (Explain)
2.	Elymus repens	25	Ү	FACU	* Indicators of hydric soil and wetland hydrology must be
3.	Liyinus repens	25	<u> </u>	1700	present, unless disturbed or problematic.
4.					Definitions of Vegetation Strata:
5.					Definitions of Vegetation Strata.
					Tree
6				_	Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					neight (DBH), regardess 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.
	Total Cover =	75			
Woody Vine St	ratum (Plot size: 30 ft. radius)				
1.	ratam (Flot size: 66 ft. radius)				
2.					
3.					Hydrophytic Vocatation Brocant?
					Hydrophytic Vegetation Present? N
5.					
4.	T-1-1-0			_	
Daniel	Total Cover =		and one of		
Remarks:	The vegetation throughout the upland consis	its of plant	ed soybear	ns.	
Additional R	Remarks:				