WETLAND DETERMINATION DATA FORM Great Plains Region

D : (/O:		LOD							15.	00/00/44		
Project/Site:		L3R Enbridge							Date:	09/23/14 Maraball		
Applicant:		Enbridge NTT/BEH			Subragion (MI)	PΛ or LDD\·	MLRA 56		County: State:	Marshall MN		
Investigators Soil Unit:	I24A	NII/DEN			Subregion (ML)_ N	NI Classification			State.	IVIIN		
Landform:	Rise				cal Relief: VV	Wi Ciassilication	-		Sample Point:	u-155n45w34-d1		
Slope (%):	3 - 7%	I atitud	le: 48.204		Longitude: -96.4	31075	Datum:	•		<u>u 10011+0W0+ u 1</u>		
. , ,		nditions on the site typic					✓ Yes	□ No	Section:			
Are Vegetation				disturbed?	Ī	Are normal circur			Township:			
Are Vegetation			•	olematic?			□ No		Range:	Dir:		
SUMMARY C		, , ,	, c, p c						· ····································			
Hydrophytic \			No				Hydric Soi	Is Present?	No			
Wetland Hyd			No		-				t Within A W	etland? No		
Remarks:			e in a farr	med soybea	n field with no v	egetation growing						
Remarks: The upland point is located on a rise in a farmed soybean field with no vegetation growing besides soybeans.												
HYDROLOG	Υ											
		icators (Check all that a	nnly: Mir	nimum of on	e primary or two	secondary requi	red):					
Primary:	•	icators (Crieck all triat a	ippiy, iviii	iii ii di di	e primary or two	secondary requi	reu).	Secondary:				
<u>- 1111ary.</u>	<u>·</u>	Water			B11 - Salt Crust				B6 - Surface S	Soil Cracks		
	A2 - High Wa	ter Table			B13 - Aquatic Fau	na			B8 - Sparsely	Vegetated Concave Surface		
	A3 - Saturation				C1 - Hydrogen Su				B10 - Drainage			
	B1 - Water M B2 - Sedimen				C2 - Dry Season V	Vater Table zospheres on Living	Poots (not till			Rhizospheres on Living Roots (til	lled)	
	B3 - Drift Dep	•			C4 - Presence of		Roots (not till	"	C8 - Crayfish E	n Visible on Aerial Imagery		
	B4 - Algal Ma				C7 - Thin Muck S			_	D2 - Geomorp			
	B5 - Iron Dep	osits			Other (Explain)				D5 - FAC-Neu			
		on Visible on Aerial Imagery							D7 - Frost-Hea	aved Hummocks (LRR F)		
	B9 - Water-St	tained Leaves										
First 1 Ot and	- 4*											
Field Observ		_										
Surface Water		Yes	Depth:		_ (in.)		Wetland F	Hydrology I	Present?	N		
Water Table		Yes U	Depth:		_ (in.)			, ,,				
Saturation Pr	resent?	Yes	Depth:		_ (in.)							
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:												
Describe Reco	orded Data (s	stream gauge, monitoring	well, aeria	al photos, pr	evious inspection	s), if available:						
Remarks:	<u>`</u>	stream gauge, monitoring hydrology indicators are			evious inspection	s), if available:						
Remarks:	<u>`</u>				evious inspection	s), if available:						
Remarks:	No wetland	hydrology indicators are	present.		·	·						
Remarks: SOILS Profile Descri	No wetland	hydrology indicators are	present.	nent the indi	cator or confirm	the absence of ir						
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Remarks: SOILS Profile Descri	No wetland	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, CS	present.	nent the indi	cator or confirm Grains; Location: PL	the absence of ir Pore Lining, M=Mat						
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, CS	present. to docum S=Covered.	nent the indi /Coated Sand	cator or confirm Grains; Location: PL Mo	the absence of inepore the second in the sec	rix)	Toyturo		Pomarke		
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descri	hydrology indicators are be to the depth needed a etion, RM=Reduced Matrix, CS Matrix Color (Moist)	to docum S=Covered	nent the indi	cator or confirm Grains; Location: PL Mo	the absence of ir Pore Lining, M=Mat		Texture		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12	No wetland iption (Descriptration, D=Depl	hydrology indicators are be to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	to docum S=Covered % 100	nent the indi /Coated Sand	cator or confirm Grains; Location: PL Mo	the absence of inepore the second in the sec	rix)	SC		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer	No wetland iption (Descri	hydrology indicators are be to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1	to docum S=Covered	nent the indi /Coated Sand	cator or confirm Grains; Location: PL Mo	the absence of inepore the second in the sec	rix)			Remarks		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1	to docum S=Covered 100 100	nent the indi /Coated Sand (cator or confirm Grains; Location: PL Moist) %	the absence of ir Pore Lining, M=Mat ttles Type	rix)	SC		Remarks		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No wetland iption (Descriptration, D=Depl	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1	to docum S=Covered 100 100	nent the indi /Coated Sand (cator or confirm Grains; Location: PL Mo	the absence of inepore the second in the sec	rix)	SC SCL				
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18	No wetland iption (Description, D=Depl Hue_10YR Hue_10YR Fic Soil Field	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1	modern by to docume secovered with the secovered with the secovered with the secovered with the second with th	Color (cator or confirm Grains; Location: PL Moist) Moist) not present):	the absence of ir Pore Lining, M=Mat ttles Type	Location	SC SCL	or Problematic			
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No wetland Iption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol	hydrology indicators are be to the depth needed retion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check here)	to docum S=Covered % 100 100 ere if ind	Coated Sand Coated Sand Coated Sand Color (cator or confirm Grains; Location: PL Mo Moist) not present):	the absence of ir Pore Lining, M=Mat ttles Type	Location	SC SCL Indicators f A9 - 1 cm M	luck (LRR I, J)	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	No wetland iption (Descriptration, D=Depl Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep	hydrology indicators are be to the depth needed setion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check heigheden)	moderate to docume to docu	Color (Coted Sand Color (icators are r S5 - Sandy R S6 - Stripped	cator or confirm Grains; Location: PL Mo Moist) not present): edox Matrix	the absence of ir Pore Lining, M=Mat ttles Type	Location	SC SCL Indicators f A9 - 1 cm M A16 - Coast	luck (LRR I, J) Prairie Redox (c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His	hydrology indicators are be to the depth needed retion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check head)	moderate of the present. to docume of the present. % 100 100 100 ere if indicates of the present.	Color (Coted Sand Color (icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confirm Grains; Location: PL Mo Moist) % not present): edox Matrix Mucky Mineral	the absence of ir Pore Lining, M=Mat ttles Type	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark S0	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.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge	hydrology indicators are be to the depth needed retion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check here) ipedon stic in Sulfide	moderate of the present. to docume of the present. % 100 100 100 ere if indicates of the present.	Color (Color (S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or confirm Grains; Location: PL Moist) Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix	the absence of ir Pore Lining, M=Mat ttles 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 Depressio	c Soils ¹		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified	hydrology indicators are be to the depth needed retion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check head)	moderate of the present. to docum of the present. % 100 100 100 ere if indicates of the present.	Color (Coted Sand Color (icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or confirm Grains; Location: PL Moist) Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix Matrix	the absence of ir Pore Lining, M=Mat ttles 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 Depressio	c Soils ¹ (LRR F, G, H)		
Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel A5 - Stratified A9 - 1 cm Mu A11 - Deplete	hydrology indicators are be to the depth needed etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check heatice in Sulfide Layers (LRR F) ck (LRR FGH) ed Below Dark Surface	moderate in the second	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O F3 - Depleted F6 - Redox D F7 - Depleted	cator or confirm Grains; Location: PL Moist) Moist) Mot present): edox Matrix Mucky Mineral Gleyed Matrix Mucky Mineral Gleyed Matrix	the absence of ir Pore Lining, M=Mat ttles 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.) 0-12 12-18 NRCS Hydr	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	hydrology indicators are be to the depth needed retion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check here) stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface ark Surface	moderate of the description of the documents of the docum	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL Mo Moist) Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix M	the absence of ir Pore Lining, M=Mat ttles 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	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)		
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Remarks: SOILS Profile Descri (Type: C=Concer Depth (In.) 0-12 12-18 NRCS Hydr	Hue_10YR Hue_10YR Hue_10YR Hue_10YR A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydrogel 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 etion, RM=Reduced Matrix, CS Matrix Color (Moist) 2/1 4/1 Indicators (check here) stic n Sulfide Layers (LRR F) ck (LRR FGH) d Below Dark Surface eark Surface ucky Mineral flucky Peat or Peat (LRR G, cky Peat or Peat (LRR F)	% 100 100 ere if ind	icators are r S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or confirm Grains; Location: PL Mo Moist) Moist) not present): edox Matrix Mucky Mineral Gleyed Matrix M	the absence of ir Pore Lining, M=Mat ttles Type	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 ain in Remarks)	C Soils ¹ (LRR F, G, H) ONS (LRR H, outside MLRA 72, 73)	sent,	
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WETLAND DETERMINATION DATA FORM Great Plains Region

Project/Site:	: L3R			Sample Point: u-155n45w34-d1
				•
VEGETATIO	N (Species identified in all uppercase	are non-native species.)		
Tree Stratum	(Plot size: 30 ft. radius)			
	Species Name	% Cover Dominant Inc	d.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: 1 (B)
5.				(C)
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				(70)
8.				Prevalence Index Worksheet
				4
9.				Total % Cover of: Multiply by:
10.	Total Course	0		OBL spp. $\begin{array}{cccccccccccccccccccccccccccccccccccc$
	Total Cover	= 0		FACW spp. 0 x 2 = 0
				FAC spp. $0 x 3 = 0$
	Stratum (Plot size: 15 ft. radius)			FACU spp. $0 x 4 = 0$
1.				UPL spp. $_{\underline{}}$ 60
2.				
3.				Total 60 (A) 300 (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%
10.	Total Cover	= 0		Prevalence Index is ≤ 3.0 *
	Total Cover			
				Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		N.11	Problem Hydrophytic Vegetation (Explain) *
1.	Glycine max	60 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.				11010 - 1
14.				Manada Minana All woody wines regardless of beight
15.				Woody Vines - All woody vines, regardless of height.
	Total Cover	= 60		
Woody Vine St	tratum (Plot size: 30 ft. radius)			
1.				
2.				
3.				Hydrophytic Vegetation Present?N
5.				
4.				
	Total Cover	= 0		
Remarks:	The vegetation throughout the upland con			
. Comanio.	regetation an eagillout the apiana con	siste of plantou obybounds		
Additional F	Remarks:			