## WETLAND DETERMINATION DATA FORM Great Plains Region

Dania at/0:0a		Lop								I Data:	00/00/44
Project/Site:		L3R Enbridge	_							Date:	09/23/14 Maraball
Applicant:			Subregion (MLRA				r I DD\·	MLRA 56		County: State:	Marshall MN
Soil Unit:	<u> </u>				_Subregion	•	lassification:			State.	IVIIN
Landform:	Depression			- I o	cal Relief: C		iassilication.			Sample Point:	w-155n45w33-b1
Slope (%):	16 - 25%		48.20		Longitude: -		 6	Datum:			W 1001140W00 B1
. , ,		onditions on the site typica			_				□ No	Section:	
Are Vegetation				disturbed?	(,,		ormal circum			Township:	
Are Vegetation			•	olematic?		7 0 1 0	✓ Yes			Range:	Dir:
SUMMARY C								, 10		· · · · · · · · · · · · · · · · · · ·	_,,,
Hydrophytic '			Yes					Hydric Soil	s Present?	Yes	
Wetland Hydrology Present?			Yes							t Within A W	etland? <b>Yes</b>
Remarks:			within	a roadside	ditch and do	minated b					
Remarks: The wetland is a wet meadow located within a roadside ditch and dominated by narrow-leaf cattail and prairie cord grass.											
<b>HYDROLOG</b>	Υ										
		icators (Check all that ap	nlv: Mir	nimum of on	e primary or	r two seco	ondary requir	ad)•			
Primary	•	icators (Check all that ap	piy, iviii	illiaili oi oii	e primary or	i two seco	ridary requir	eu).	Secondary:		
<u> </u>	A1 - Surface	Water			B11 - Salt Cr	rust				B6 - Surface S	oil Cracks
	A2 - High Wa	ter Table			B13 - Aquatio	c Fauna				B8 - Sparsely	Vegetated Concave Surface
	A3 - Saturation				C1 - Hydroge					B10 - Drainage	
	B1 - Water M B2 - Sedimer				C2 - Dry Sea		Table eres on Living I	Pooto (not till		C3 - Oxidized C8 - Crayfish E	Rhizospheres on Living Roots (tilled)
	B3 - Drift Dep	•						-	n Visible on Aerial Imagery		
	B4 - Algal Ma			□ C4 - Presence of Reduced Iron □ C7 - Thin Muck Surface □							hic Position
	B5 - Iron Dep	osits			Other (Explai	in)			☑	D5 - FAC-Neut	
		on Visible on Aerial Imagery								D7 - Frost-Hea	aved Hummocks (LRR F)
	B9 - Water-S	tained Leaves									
<b>5</b> : 1101											
Field Observ					<i>(</i> 1)						
Surface Wat		Yes	Depth:		_ (in.)			Wetland H	lydrology I	Present?	Υ
Water Table		Yes	Depth:		_ (in.)				, ,,		<del></del>
Saturation P	resent?	Yes	Depth:		_ (in.)						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Describe Rec	orded Data (	stream gauge, monitoring w	ell, aeri	al photos, pr	evious insped	ctions), if a	available:				
Remarks:	<u>`</u>	stream gauge, monitoring w hydrology indicators are p						Irophytic ve	getation pre	esent and lan	dscape position.
	<u>`</u>							Irophytic ve	getation pre	esent and land	dscape position.
Remarks:	No primary	hydrology indicators are p	resent.	. Wetland hy	drology is a	ssumed b	pased on hyd		getation pre	esent and lan	dscape position.
Remarks:  SOILS Profile Descri	No primary	hydrology indicators are p	resent.	. Wetland hy	drology is a	ssumed b	pased on hyd absence of in	dicators.)	getation pre	esent and lan	dscape position.
Remarks:  SOILS Profile Descri	No primary	hydrology indicators are p	resent.	. Wetland hy	drology is a	ssumed b	pased on hyd absence of in	dicators.)	getation pre	esent and lan	dscape position.
Remarks:  SOILS Profile Descri	No primary	hydrology indicators are particles ibe to the depth needed to etion, RM=Reduced Matrix, CS=	resent.	. Wetland hy	drology is a	issumed be ofirm the al	pased on hyd absence of in	dicators.)	getation pre	esent and land	dscape position.
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=	docum Covered	Netland hy	cator or con	ofirm the all on: PL=Pore I	based on hyd absence of inc Lining, M=Matri	dicators.)		esent and land	
Remarks:  SOILS Profile Descri	No primary	hydrology indicators are particles ibe to the depth needed to etion, RM=Reduced Matrix, CS=	resent.	. Wetland hy	cator or con	issumed be ofirm the al	pased on hyd absence of in	dicators.)	getation pre	esent and land	dscape position.  Remarks
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Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators are particles in the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)	oresent.  o docum Covered	nent the indi /Coated Sand (	cator or con Grains; Location	issumed bases when the algorithm is placed by the second s	based on hyd absence of ind Lining, M=Matri	dicators.)		esent and land	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary	hydrology indicators are particles in the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)	oresent.  o docum Covered	nent the indi /Coated Sand (	cator or con	issumed bases when the algorithm is placed by the second s	based on hyd absence of ind Lining, M=Matri	dicators.)		esent and land	
Remarks:  SOILS Profile Descri (Type: C=Concer	No primary iption (Description, D=Deplementation, D=Deplementation)	hydrology indicators are particles in the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)	% docume Covered	Color (	cator or congrains; Location  Moist)  not present):	issumed bases when the algorithm is placed by the second s	based on hyd absence of ind Lining, M=Matri	dicators.) x)  Location	Texture Indicators f	or Problematic	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	No primary iption (Description, D=Depletion) ric Soil Field A1- Histosol	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)	% docume Covered	Color (  icators are r	cator or congrains; Location  Moist)  not present):	issumed bases when the algorithm is placed by the second s	based on hyd absence of ind Lining, M=Matri	dicators.) x)  Location	Texture  Indicators f A9 - 1 cm M	or Problematio	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, Depoint Intration, Depoint Int	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)	%  ce if ind	Color (  S5 - Sandy R S6 - Stripped	cator or congrains; Location  Moist)  not present):  edox Matrix	Mottles %	based on hyd absence of ind Lining, M=Matri	dicators.) x)  Location	Indicators f A9 - 1 cm M A16 - Coast	or Problematic uck (LRR I, J) Prairie Redox (	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Deplementation, D=Deplementation)  ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History	hydrology indicators are particle to the depth needed to detion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)	%  re if ind	Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N	cator or congrains; Location  Moist)  not present):  edox Matrix Mucky Mineral	Mottles %	based on hyd absence of ind Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St	or Problemation uck (LRR I, J) Prairie Redox ( urface (LRR G)	Remarks  Soils  LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, Depoint Soil Field  A1- Histosol A2 - Histic Ep A3 - Black History A4 - Hydroge	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)  Sipedon stic on Sulfide	%  Covered  "Covered  "Covered  "Covered  "Covered  "Covered  "Covered  "Covered  "Covered  "Covered  "Covered	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy O	cator or congrains; Location  Moist)  not present):  dedox Matrix Mucky Mineral Gleyed Matrix	Mottles %	based on hyd absence of ind Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F	or Problemation  uck (LRR I, J)  Prairie Redox ( urface (LRR G)  Plains Depression	Remarks
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, Depoint attention, Depoint att	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix Color (Moist)  Indicators (check here)  Sipedon stic in Sulfide I Layers (LRR F)	%  covered  %  re if ind	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy C F3 - Depleted	cator or congrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix	Mottles %	based on hyd absence of ind Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduce	or Problemation  Juck (LRR I, J)  Prairie Redox (  Jurface (LRR G)  Plains Depression  Jure de Vertic	Remarks  Soils  LRR F, G, H)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Depinion, D=Depinion)  ric Soil Field  A1- Histosol A2 - Histic Epinion A3 - Black History A4 - Hydroge A5 - Stratified A9 - 1 cm Mu	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)  Sipedon stic on Sulfide	%  re if ind	Color (  S5 - Sandy R S6 - Stripped F1 - Loamy N F2 - Loamy N F3 - Depleted F6 - Redox D	cator or congrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix Matrix Matrix	Mottles	based on hyd absence of ind Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P	or Problemation  uck (LRR I, J)  Prairie Redox ( urface (LRR G)  Plains Depression	Remarks  Soils¹  LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Depinion, D=Depinio	hydrology indicators are particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)  Sipedon (Stice on Sulfide of Layers (LRR F))  Sick (LRR FGH)  Sick (LRR FGH)  Sick Below Dark Surface (Dark Surface)	%  covered  %  re if ind	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix	Mottles  ***  **  **  **  **  **  **  **  **	absence of inc Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	or Problemation uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression ed Vertic earent Material	Remarks  Soils¹  LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	iption (Description, D=Depinion)  ric Soil Field  A1- Histosol A2 - Histic Ep A3 - Black His A4 - Hydroge A5 - Stratified A9 - 1 cm Mu A11 - Deplete A12 - Thick E S1 - Sandy M	hydrology indicators are particle to the depth needed to detion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)  Sipedon Stic (check here)  All Layers (LRR F) (ck (LRR FGH)	%  re if ind	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix	Mottles  ***  **  **  **  **  **  **  **  **	based on hyd absence of ind Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very	or Problematic luck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S	Remarks  Soils¹  LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
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Remarks:  SOILS Profile Descri (Type: C=Concer  Depth (In.)	No primary  iption (Description, D=Depinion)  A1- Histosol A2 - Histic Epinion A3 - Black History A4 - Hydroge 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 particle to the depth needed to etion, RM=Reduced Matrix, CS=  Matrix  Color (Moist)  Indicators (check here)  Sipedon (Stice of Sulfide of Layers (LRR F))  Sick (LRR FGH) (LRR FGH)  Sick (LRR FGH) (LRR FGH)  Sick Surface (LRR Surface)  Sinck Surface (LRR F)  Sick (LRR FGH)  S	%  re if ind	icators are r  S5 - Sandy R S6 - Stripped F1 - Loamy R F2 - Loamy R F3 - Depleted F6 - Redox D F7 - Depleted F8 - Redox D	cator or congrains; Location  Moist)  Moist)  edox Matrix Mucky Mineral Gleyed Matrix	Mottles  ***  **  **  **  **  **  **  **  **	absence of inc Lining, M=Matri	Location	Indicators f A9 - 1 cm M A16 - Coast S7 - Dark St F16 - High F F18 - Reduct TF2 - Red P TF12 - Very Other (Expla	or Problemation uck (LRR I, J) Prairie Redox ( urface (LRR G) Plains Depression red Vertic Parent Material Shallow Dark S ain in Remarks)	Remarks  Soils¹  LRR F, G, H)  Ons (LRR H, outside MLRA 72, 73)
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## WETLAND DETERMINATION DATA FORM

**Great Plains Region** 

Project/Site:	e: L3R				Sample Point: w-155n45w33-b1
<b>VEGETATIO</b>	` ' '	re 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: 3 (B)
					Total Nambel of Bollinant Openes Across All Strata.
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:
10.					OBL spp. 60
	Total Cover =	= 0			FACW spp. $\frac{35}{35}$ $\times 2 = \frac{70}{70}$
	Total Gover =				
0 1: (01 1	O (DI				FAC spp. $0   x   3 = 0$
	Stratum (Plot size: 15 ft. radius)				FACU spp. 0 x 4 = 0
1.					UPL spp. $0   x   5 = 0$
2.					
3.					Total 95 (A) 130 (B)
4.					```
5.					Prevalence Index = B/A = 1.368
					Flevalence much = D/A = 1.500
6.					
7.					
8.					Hydrophytic Vegetation Indicators:
9.					Rapid Test for Hydrophytic Vegetation
10.					X Dominance Test is > 50%
	Total Cover =	= 0			X Prevalence Index is ≤ 3.0 *
	• • • • • • • • • • • • • • • • • • • •	·	_		
					Morphological Adaptations (Explain) *
	(Plot size: 5 ft. radius)		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Problem Hydrophytic Vegetation (Explain) *
1.	Typha angustifolia	40	Y	OBL	
2.	Spartina pectinata	25	Υ	FACW	* Indicators of hydric soil and wetland hydrology must be
3.	Carex pellita	20	Υ	OBL	present, unless disturbed or problematic.
4.	Phalaris arundinacea	10	N	FACW	Definitions of Vegetation Strata:
5.					
6					Trop - Westerlants 2 in (7 Cam) as more in diameter at broast
					<b>Tree -</b> Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
7.					Height (DDH), Tegardioss of Height.
8.					
9.					Sapling/Shrub - Woody plants less than 3 in. DBH, regardless of height.
10.					
11.					1
12.				_	Herb - All herbaceous (non-woody) plants, regardless of size.
					11610 - 1
13.					
14.					
15.					Woody Vines - All woody vines, regardless of height.
	Total Cover =	95			
			_		
Woody Vino S	Stratum (Plot size: 30 ft. radius)				
	Tratum (Flot Size. 30 it. radius)				
1.					
2.					
3.					Hydrophytic Vegetation Present?Y
5.					
4.					
	Total Cover =	= 0			
Remarks:			ttail wooll	v sedae s	and prairie cord grass with a mixture of other plants commonly found within roadside
itelliaiks.	•	10W-leal Ca	ittali, wooli	y seuge, a	The plaine cord grass with a mixture of other plants commonly found within foadside
	ditches in the region.				
Additional F	Remarks:				