WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: Cit	Marsha y/County:	II		Sampling Date:	2015-06-04
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	w-156n46w34-c1
KRG/ACM Investigator(s):	S	ection, Towns	hip, Range:		
depression Landform (hillslope, terrace, etc.):		Local Relie	f (concave, con	Conca vex, none):	Slope (%):
Subregion (LRR or MLRA):	Latitude:	48.2893219	Longi	-96.5441227 tude:	
Datum: Minnesota State Plane North, NAD 83	(2011) U.S. feet				
I65A Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typica	I for this time of ye	ear? (if no, exp	lain in Remarks):	Yes
No No No Are Vegetation, Soil, or Hydrology	significantly dist	turbed? Are "l	Normal Circums	Yes stances" present?	
Are Vegetation No	naturally problem	natic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	ing sampling point	t locations, tra	nsects, import	ant features, etc.	
Hydrophytic Vegetation Present?	es	Is the Sam	pled Area		
Hydric Soil Present?	'es	within a W	/etland?	Yes	
	'es	If yes, opti	onal Wetland S	ite ID:	-
Remarks: (Explain alternative procedures here or in	a separate report	.)			
The wetland is a wet meadow in a slight depression	al area within an a	ctively grazed	pasture.		
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size: 30)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 2	(A)
2				Total Number of Dominant	
3	-			Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0 :	= Total Cover		That Are OBL, FACW, or FAC:	56666666666 (A/B)
Sapling/Shrub Stratum (Plot Size: 15)				Prevalence Index worksheet:	
1				Total % Cover of:	Multiply by:
2			· 	OBL species 25.00	
3				FACW species 50.00 FACU species 7.00	x 2 100 x 3 140
5				UPL species 0.00	x4 0
	0 :	= Total Cover	-		(A)(B)
Herb Stratum (Plot Size: 5				Prevalence Index = B/	'A = <u>2.4444444</u>
1. Juncus balticus 2. Poa pratensis		Yes	FACW	_ Hydrophytic Vegetation Indicators	
2. Carex pellita		Yes Yes	OBL FACU	1 - Rapid Test for Hydropl yes 2 - Dominance Test is > 50	-
4. Agrostis gigantea		No No	FACW	yes 2 - Dominance Test is > 50 yes 3 - Prevalence Index is ≤ 3	
5. Elymus repens		No	FACU	4 - Morphological Adapta	tions ¹ (Provide
6. Solidago gigantea	5.00	No	FAC	supporting data in Remarks or o	n a separate sheet)
7. Carex praegracilis		No	FACW	Problematic Hydrophytic Vegetatio	n ¹
8. Eleocharis compressa Taraxacum officinale		No	FACU	(Explain) Indicators of hydric soil and wetland hydro	logy must be present
9. Juncus tenuis		No	FACU	unless disturbed or problematic.	presenty
10.		No Tatal Causa	FAC	-	
Woody Vine Stratum (Plot Size:)	117	= Total Cover			
1.			-		
2			-01	-	
V Day County in Unit St. 1	0 :	= Total Cover		Hudronhuti-	
% Bare Ground in Herb Stratum 0				Hydrophytic Vegetation Present?	
Downster.					
Remarks: Vegetation is dominated by baltic rush, woolly sedge, and Kei	ntucky bluegrass				
- Committee of Same rash, woony scage, and kel	,				

SOIL Sampling Point: w-156n46.

includes) Codor (modest) Section (modest) Sec	epth N	Лatrix	ded to documen Re	dox Features	. 0. 00.		וה מושבוורה מנון	indicatorsi,	
13.18 10/97.2 2 95 2.5/97.3 6 5 C M LFS loamy fine sand, mixed matrix 15.	•				Type ¹	Loc ²	Texture	Remari	ks
3-18 2.59 3 3 90 LPS loamy fine sand, mixed matrix 3-18 207R 2.2 1.0 LPS loamy fine sand, mixed matrix LPS loamy fine sand transpose fine sand transpo		•	, ,						
Sample S								-	natriy
ype: C-Conventration, D-Depletion, IMN-Reduced Matris, MS-Masked Sand Grain. drifts Soil Indications: Indicators for Problematic Hydro Soil?	<u> </u>							-	
Indicators: Indicators: Indicators for Problematic Hydric Soil*: Indicators for Problematic Hydric	3-18 <u>101K 2 2</u>			——			LF3	- loamy line sand, mixed if	Idtrix
Indicators:							-	-	
Indicators:									
defe Soll Indicators: elstrocol (A1)									
Indicators:	ype: C=Concentration, D=Deple	etion, RM=Reduced Ma	trix, MS=Masked Sa	nd Grains.				² Location: PL	=Pore Lining, M=Ma
Histic Epipedon (A2)		-					Indicator		
Issute Epipedon (A2)	Histosol (A1)		Sandy 6	Gleyed Matrix (S	4)		1cr	m Muck (A9) (LRR I, J)	
Black Histic (A3) Stripped Matrix (SG) Dark Surface (ST) (LBR G) Hydrogen Sulfide (A4) Learny Mucky Mineral (F1) (LRR K, U) High Plains Depressions (F16) Stratified Layers (A5) Learny Mucky Mineral (F1) (LRR K, U) High Plains Depressions (F16) Thick Dark Surface (A11) Redox Dark Surface (F6) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F16) Thick Dark Surface (TF12) Sandy Mucky Mineral (S1) Redox Depressions (F16) Redox Depressions (F16) Son Mucky Peat or Peat (S2)(LRR G, H) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F1) Mulk A 72 & 73 of LRR H) Son Mucky Peat or Peat (S3) (LRR F2) Mulk A 72 & 73 of LRR H) Son Mucky Peat or Peat (S3) (LRR F2) Mulk A 72 & 73 of LRR H) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Plains Depressions (F16) Son Mucky Peat or Peat (S3) (LRR F2) High Pl	7		Sandy B	Redox (S5)			Coa	st Prairie Redox (A16)(LRR K, L, I	₹)
High Pfairs Depressions (16)	¬								
Stratified Layers (AS) Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73) Joen Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Reduced Vertic (F18) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Red Parent Material (F21) Trick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (F12) Sandy Mucky Minems (S1) Redoc Depressions (F8) Other (explain in remarks) 2.5cm Mucky Peat or Peat (S2) (LRR F, H) High Plains Depressions (F16) 3 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Strictive Layer (if present): Type:	7								
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Sandy Mucky Mineral [51]	Thick Dark Surface (A12)		Deplete	ed Dark Surface ((F7)		☐ Ver	y Shallow Dark Surface (TF12)	
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Som Mucky Peat or Peat (53) (LRR F)	7	(52)(LDD C LI)						er (explain in remarks)	
disturbed or problematic. Type:	¬								
Strictive Layer (if present): Type: Depth (inches): It consists of loamy fine sand throughout the profile with redox features present in the upper portion. Soil meets hydric indicator \$5, Sandy Redox. YPROLOGY etland Hydrology Indicators: Imary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Sulf Crust (B11) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Saturation (A3) Hydrogen Sulfide Odor (C1) Deringe Patterns (B10) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) (where tilled) Deriff Deposits (B2) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Thin Muck Surface (C7) Wes Geomorphic Position (D2) Water-Stained Leaves (B9) Other (Explain in Remarks) Indicators (minimum of two requires (B8) Wetland Hydrology Present? No Depth (inches) Indicators (minimum of two requires (B8) Wetland Hydrology Present? Yes Depth (inches) Saturation (Vision on Aerial Imagery (B7) Luration Present? No Depth (inches) Saturation Present? Yes Nontheentral and Northeast Region - Version Northeentral and Northeast Region - Version	☐ 5cm Mucky Peat or Peat (S	53) (LRR F)	(ML	RA 72 & 73 of LF	RR H)				SS
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