WETLAND DETERMINATION DATA FORM - Great Plains Region

SPP Project/Site: Cir	Polk ty/County:			Sampling Date:	2015-07-13
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	u-149n42w2-b1
ACM/LEB Investigator(s):	5	Section, Townsl	nip, Range:		
rise Landform (hillslope, terrace, etc.):			(concave, conv		0-2 Slope (%):
Subregion (LRR or MLRA):	Latitude:	47.748458446		-96.00084923 ude:	
Minnesota State Plane North, NAD 83				· · · · · · · · · · · · · · · · · · ·	
Datum:					
Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typical	al for this time of ye	ear? (if no, expl	ain in Remarks)	:	Yes
Are Vegetation, Soil, or Hydrology	o significantly dis	turbed? Are "N	Normal Circums	Yes tances" present?	
Are Vegetation No , Soil No , or Hydrology No	_ naturally problem	natic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	ing sampling poin	t locations, tra	nsects, importa	int features, etc.	
Hydrophytic Vegetation Present?	No	Is the Sam	pled Area		
	No			No	
Hydric Soil Present? No		within a W			-
Wetland Hydrology Present?	<u> </u>		onal Wetland Si	te ID:	
Remarks: (Explain alternative procedures here or in		•	and throad area	s and smooth broms	
The upland is located on a field access road above	a diten and domina	ited by needle i	and thread gras	s and smooth brome.	
VEGETATION - Use scientific names of plants.	Absoluto				
(Diet Sine)	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet: Number of Dominant Species	
Tree Stratum (Plot Size:)		Species?	Status	That Are OBL, FACW, or FAC: 0	(0)
2.				Total Number of Dominant	(A)
	·			2	
3	·		-	Species Across All Strata:	(B)
4.	·			Percent of Dominant Species 0	
	0	= Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size:) 1.				Prevalence Index worksheet: Total % Cover of:	Multiply by:
2.	-			OBL species 0.00	x 1 0
3.				FACW species 0.00	x 2 0
4				FACU species 0.00	x 3 <u>60</u>
5	·		-	UPL species 72.00	— ····
	0	= Total Cover		Column Totals 87	(A) <u>420</u> (B)
Herb Stratum (Plot Size: 5 ft 1. Hesperostipa comata	40.00	Yes		Prevalence Index = B, Hydrophytic Vegetation Indicators	
2. Bromus inermis	30.00	Yes	UPL	1 - Rapid Test for Hydrop	
3. Poa pratensis	15.00	No	FACU	no 2 - Dominance Test is > 5	0%
4. Artemisia ludoviciana	2.00	No	UPL	no 3 - Prevalence Index is ≤ 3	3.0 ¹
5				4 - Morphological Adapta supporting data in Remarks or o	
6				Problematic Hydrophytic Vegetatio	
7 8.				Problematic Hydrophytic Vegetatio (Explain)	"11
9.				1 Indicators of hydric soil and wetland hydro	ology must be present,
9				unless disturbed or problematic.	
10					
	87	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1				-	
2			-		
	0	= Total Cover			
% Bare Ground in Herb Stratum 15				Hydrophytic Vegetation	
				Present?	
Remarks:					
Vegetation is dominated by smooth brome and needle and to	nread grass.				

SOIL Sampling Point: u-149n42...

inches) Color (moist)	%						
		Color (moist)	% Type ¹	Loc ² Te	xture	Rema	rks
<u>_</u>							
Constitution D. Doubelou DA	De due ed Mateix	. NAC. NAC-alved Count Count				2,	N. Dans Halas M. Mark
Type: C=Concentration, D=Depletion, RM	=Keduced Matrix	, MS=Masked Sand Gra	iins.		Indicators for Dr	oblematic Hydric Soil ³ :	PL=Pore Lining, M=Mat
ydric Soil Indicators:						•	
Histosol (A1)		Sandy Gleyed				(A9) (LRR I, J)	
Histic Epipedon (A2)		Sandy Redox (ie Redox (A16)(LRR K, L,	. R)
Black Histic (A3)		Stripped Matri	ix (S6)			ce (S7) (LRR G)	
Hydrogen Sulfide (A4)		Loamy Mucky	Mineral (F1) (LRR K,	L)	☐ High Plains	Depressions (F16)	
Stratified Layers (A5)		Loamy Gleyed	Matrix (F2)		(LRR H outsi	ide of MLRA 72 & 73)	
1cm Muck (A9) (LRR F, G, H)		Depleted Matr	rix (F3)		Reduced Ve	ertic (F18)	
Depleted Below Dark Surface (A11)		Redox Dark Su	ırface (F6)		Red Parent	Material (F21)	
Thick Dark Surface (A12)		Depleted Dark	Surface (F7)		Very Shallo	w Dark Surface (TF12)	
Sandy Mucky Mineral (S1)		Redox Depress	, ,			lain in remarks)	
			, ,		Other (expi	idii ii remarks)	
2.5cm Mucky Peat or Peat (S2)(LRR			pressions (F16)			drophytic vegetation ar	
5cm Mucky Peat or Peat (S3) (LRR F)	(MLRA 72 8	& 73 of LRR H)			gy must be present, unl	ess
					disturbed or pro	biematic.	
Туре:				Hydric Sc	oil Present? No		
Type: Depth (inches): emarks: pils were not sampled due to the likely pr	oximity of buried	utilities, but are assum	ned to be non-hydric			ion and landscape posit	ion.
Type: Depth (inches): emarks: pils were not sampled due to the likely pr	oximity of buried	utilities, but are assum	ned to be non-hydric			ion and landscape posit	ion.
Type: Depth (inches): emarks: pils were not sampled due to the likely pr YDROLOGY //etland Hydrology Indicators: rimary Indicators (minimum of one		neck all that apply)	ned to be non-hydric		ominant vegetati <u>Seconda</u> l	ry Indicators (minim	
Type:		heck all that apply) Salt Crust (B11)			ominant vegetati <u>Seconda</u>	ry Indicators (minim Surface Soil Cracks (B6)	um of two required
Type:		neck all that apply) Salt Crust (B11) Aquatic Inverteb	orates (B13)		Secondal	ry Indicators (minim Surface Soil Cracks (B6) parsely Vegetated Conc	um of two required
Type: Depth (inches): marks: bils were not sampled due to the likely pr YDROLOGY Yetland Hydrology Indicators: timary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3)		neck all that apply) Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide	orates (B13) e Odor (C1)		Secondal	ry Indicators (minim Surface Soil Cracks (B6) parsely Vegetated Conc Orainage Patterns (B10)	um of two required ave Surface (B8)
Type: Depth (inches): marks: pils were not sampled due to the likely present the likely pres		neck all that apply) Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Dry-Season Wate	orates (B13) e Odor (C1) er Table (C2)	based on the d	Secondal	ry Indicators (minim Surface Soil Cracks (B6) parsely Vegetated Conc Orainage Patterns (B10) Oxidized Rhizospheres (um of two required ave Surface (B8)
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Type:		neck all that apply) Salt Crust (B11) Aquatic Inverteb Hydrogen Sulfide Dry-Season Wate Oxidized Rhizosp	orates (B13) e Odor (C1) er Table (C2) otheres on Living Roo uced Iron (C4) ce (C7)	based on the d	Secondal Secondal Secondal Secondal Secondal	ry Indicators (minim Surface Soil Cracks (B6) parsely Vegetated Conc Drainage Patterns (B10) Oxidized Rhizospheres o where tilled) rayfish Burrows (C8)	ave Surface (B8) on Living Roots (C3) ial Imagery (C9)
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