WETLAND DETERMINATION DATA FORM - Great Plains Region

Project/Site: Ci	ty/County:			Sampling Date:	2015-07-15
Enbridge Applicant/Owner:		Min State:	nesota	Sampling Point:	w-149n43w1-a1
BCS/BJC Investigator(s):	:	Section, Towns	hip, Range:		
Landform (hillslope, terrace, etc.):			f (concave, conv	· · · · · · · · · · · · · · · · · · ·	0-2 Slope (%):
Subregion (LRR or MLRA):	Latitude:	47.759690489	96 Longit	-96.09605222 rude:	
Datum: Minnesota State Plane North, NAD 8.	3 (2011) U.S. feet				
Soil Map Unit Name:				NWI Classification	on:
Are climatic/hydrologic conditions on the site typic	al for this time of y	ear? (if no, exp	lain in Remarks):	Yes
Are Vegetation No Yes No Hydrology	o significantly dis	sturbed? Are "I	Normal Circums	tances" present?	
Are Vegetation No No No No Hydrology No	_ naturally problen	natic? (If need	led, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	ving sampling poin	nt locations, tra	nsects, importa	ant features, etc.	
Hydrophytic Vegetation Present?	Yes	Is the Sam	pled Area		
Hydric Soil Present?	Yes	within a W	/etland?	Yes	_
Wetland Hydrology Present?	Yes	If yes, opti	onal Wetland Si	te ID:	
Remarks: (Explain alternative procedures here or i	n a separate report	t.)			
The wetland is a seasonally flooded basin dominat	ed by slough grass	and located at	the edge of a til	led wheat field. Although hydr	ic soil indicators were
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
1	_	•		That Are OBL, FACW, or FAC: 1	(A)
2	- <u></u> -			Total Number of Dominant	(,
				1	
3				Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0	= Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size:)				Prevalence Index worksheet:	,
1.	_			Total % Cover of:	Multiply by:
2.				OBL species 40.00	<u></u>
3.			-	FACW species 19.00	x 2 38
4				FACU species 10.00	
5				UPL species 0.00	
	0	= Total Cover		Column Totals 76	(A) <u>136</u> (B)
Herb Stratum (Plot Size: 5 ft)				Prevalence Index = B/	A = 1.7894736
1. Beckmannia syzigachne	_ 40.00	Yes	OBL	Hydrophytic Vegetation Indicators	
2. Puccinellia distans	10.00	No	FACW	yes 1 - Rapid Test for Hydroph	nytic Vegetation
3. Portulaca oleracea	10.00	No	FAC	yes 2 - Dominance Test is > 50	1%
4. Phleum pratense	5.00	No	FACU	yes 3 - Prevalence Index is ≤ 3	.01
5. Rumex fueginus	_ 5.00	No	FACW	4 - Morphological Adapta	
6. Hordeum jubatum		No	FACW	supporting data in Remarks or or	ı a separate sheet)
7. Diplachne fusca		No	FACW	Problematic Hydrophytic Vegetation	n ¹
8. Chenopodium album		No	FACU	(Explain)	
9	_			Indicators of hydric soil and wetland hydro	logy must be present,
			-	unless disturbed or problematic.	
10		-	·		
	76	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1.					
		_		1	
2				1	
	0	= Total Cover			
% Bare Ground in Herb Stratum				Hydrophytic	
				Vegetation Present?	
		,		-	<u> </u>
Remarks:	a variety of other fact	s and graminald-	nterenerged		
The wetland sample area is dominated by slough grass with	a variety of other forbs	anu grannnoids i	merspersed.		

SOIL Sampling Point: w-149n43.

(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks 0-6 10YR 2 1 100 FSL FSL 100 FSL LCOS Loamy coarse sand. Gravel fragger 10-20 10YR 5 3 100 LCOS Loamy coarse sand. Gravel fragger LCOS Loamy coarse sand. Gravel fragger	IVIATRIX		m the absenc	e or marcacorsi,	
100 FSL 100 FSL 100 FSL 100 FSL 100		Redox Features	2	Dansani	1
10-20 10YR 5 3 100		OIST) % Type L		ure kemari	KS
10.20 10YR 5 3 100 10YR 5 3 10YR 6 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4					
**Type: C-Concentration, D-Depletion, RMi-Reduced Matrix, MS-Masked Sand Grains. **Type: C-Concentration, D-Depletion, RMi-Reduced Matrix, MS-Masked Sand Grains. **Indicators for Problematic Hydric Soil*: Hestosci (A1)					1.6
Name Soil Indicators	100 100 100 100 100 100 100 100 100 100		LCOS	Loamy coarse sand. Grave	el fragments pres.
Name Soil Indicators				 -	
Histosol (A1) Sandy Gleyed Matrix (S4) Idom Muck (A9) (LRR I, J) Histosol (A1) Sandy Gleyed Matrix (S4) Idom Muck (A9) (LRR I, J) Histosol (A2) Sandy Redox (S5) Coast Prairie Redox (A16)(LRR IK, I, R) Histosol (A2) Dark Surface (S7) (LRR IG) Histosol (A2) Dark Surface (S7) (LRR IG) Hydrogen Sulfide (A4) Learny Mucky Mineral (F1) (LRR IK, IJ) Hydrogen Sulfide (A4) Learny Mucky Mineral (F1) (LRR IK, IJ) Hydrogen Sulfide (A4) Learny Mucky Mineral (F1) (LRR IK, IJ) High Plains Depressions (F16) Redox Dark Surface (A12) Depleted Dark Surface (F6) Red Parent Material (F21) Thick Dark Surface (A12) Depleted Dark Surface (F7) Very Shallow Dark Surface (TF12) Sandy Mucky Mucky Mineral (S1) Redox Depressions (F16) Som Mucky Peat or Peat (S2)(LRR IG, H) High Plains Depressions (F16) Som Mucky Peat or Peat (S2)(LRR IG, H) High Plains Depressions (F16) Som Mucky Peat or Peat (S3) (LRR IF) (MLRA 72 & 73 of LRR IH) High Plains Depressions (F16) And Indicators of hydrophytic vegetation and wether the surface (F7) Very Shallow Dark Surface (TF12) Heaviscitive Layer (If present): Hydric Soil Present? Yes Depth (Inches): Hydric Soil Present? Yes Depth (Inches): Hydric Soil Present? Yes Heaviscitive Layer (If present): Secondary Indicators: (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of one is required; check all that a					
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Histic Epipedon (A2) Sandy Redox (S5) Coast Prairie Redox (A16)(LRR K, L, R)	irs:		In	dicators for Problematic Hydric Soil ³ :	
Black Histic (A3) Stripped Matrix (S6) Dark Surface (S7) (LRR G)) Sai	ndy Gleyed Matrix (S4)	[1cm Muck (A9) (LRR I, J)	
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Stratified Layers (A5) Loamy Gleyed Matrix (F2) (LRR H outside of MLRA 72 & 73)	ulfide (A4)	amy Mucky Mineral (F1) (IRR K. I	, [High Plains Depressions (F16)	
1cm Muck (A9) (LRR F, G, H)			-		
Depleted Below Dark Surface (A11)			Г		
Thick Dark Surface (A12)			L	_	
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Scm Mucky Peat or Peat (S3) (LRR F)	y Peat or Peat (S2)(LRR G, H)	gh Plains Depressions (F16)	_		
disturbed or problematic. restrictive Layer (if present):					
Type:	- cat (33) (Littl)	(55
Type:	present):				
Depth (inches): Hydric Soil Present? Yes Secondary Indicators, but it is significantly indicators, but it is significantly indicators of a dark fine sandy loam underlain by a light loamy coarse sand. The soil does not meet any hydric soil indicators, but it is significantly indicators which may obscure hydric features. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Water (A1) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Invertebrates (B13) Sparsely Vegetated Concave Surface Water (A3) Water Marks (B1) Dry-Season Water Table (C2) Sediment Deposits (B2) Drift Deposits (B3) (where not tilled) Drift Deposits (B3) (where not tilled) Iron Deposits (B3) Water Alal Mat or Crust (B4) Presence of Reduced Iron (C4) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water-Stained Leaves (B9) Thin Muck Surface (C7) Water Water Present? Wo Depth (inches) Wetland Hydrology Present? Wetland Hydrology Present? Wetland Hydrology Present?	,				
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