WETLAND DETERMINATION DATA FORM - Great Plains Region

L3R Project/Site: Cir	Marshall City/County:			Sampling Date:	2015-06-03
Enbridge Applicant/Owner:		y: Minnesota State:		Sampling Point:	w-156n46w34-a1
ACM/KRG Investigator(s):		Section, Towns	ship, Range:		
depression Landform (hillslope, terrace, etc.):			ef (concave, con		3-7 Slope (%):
Subregion (LRR or MLRA):	Latitude	48.28974469	56 Longi	-96.54389153 tude:	
Minnesota State Plane North, NAD 83 Datum:	3 (2011) U.S. feet				
Soil Map Unit Name:				NWI Classification	PEMC on:
Are climatic/hydrologic conditions on the site typica	al for this time of	year? (if no, exp	olain in Remarks):	Yes
Are Vegetation No	significantly d	isturbed? Are "	Normal Circum	Yes stances" present?	
Are Vegetation No No No No Hydrology No	naturally proble	matic? (If need	ded, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map show	<u> </u>	nt locations, tra	ansects, import	ant features, etc.	
Hydrophytic Vegetation Present?	Yes ——	_ Is the Sampled Area			
Hydric Soil Present?	Yes	within a V	Vetland?	Yes	_
Wetland Hydrology Present?	Yes	If yes, opti	ional Wetland Site ID:		
Remarks: (Explain alternative procedures here or in	n a separate repo	_ rt.)		·	
The wetland is a fresh wet meadow adjacent to an	excavated pond v	within a pasture	. Soils could no	t be sampled due to the proxin	nity of existing pipelines.
VEGETATION - Use scientific names of plants.					
	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 1	(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:	(A/B)
Sapling/Shrub Stratum (Plot Size:)	-	_ = 10tal covel		Prevalence Index worksheet:	(,,,,,,
1.			_	Total % Cover of:	Multiply by:
2				OBL species 24.00	x 1 <u>24</u>
3	·			FACW species 80.00	_ ^
4	•			FACU species 0.00	x 3 32
5	0	- Total Causa		UPL species 0.00 Column Totals 112	x 4 <u>0</u> (A) 216 (B)
Herb Stratum (Plot Size: 5)	<u> </u>	_ = Total Cover		Column Totals 112 Prevalence Index = B,	_ (-)
1. Phalaris arundinacea	75.00	Yes	FACW	Hydrophytic Vegetation Indicator	
2. Eleocharis palustris	15.00	No	OBL	yes 1 - Rapid Test for Hydrop	nytic Vegetation
3. Juncus balticus	5.00	No	FACW	yes 2 - Dominance Test is > 5	0%
Schoenoplectus tabernaemontani Typha angustifolia	5.00	No	OBL	yes 3 - Prevalence Index is ≤ 3	_
Ambrosia artemisiifolia	2.00	No No	- OBL FACU	4 - Morphological Adapta supporting data in Remarks or o	
6. Annorosia arternisinola 7. Ranunculus cymbalaria	2.00	No No	1400	Problematic Hydrophytic Vegetatio	n ¹
8. Trifolium pratense	2.00	No No	FACU	(Explain)	•
9. Trifolium repens	2.00	No	FACU	Indicators of hydric soil and wetland hydro unless disturbed or problematic.	logy must be present,
10. Taraxacum officinale	2.00	No	FACU		
	112	= Total Cover			
Woody Vine Stratum (Plot Size:)		_			
1.					
2.					
	0	= Total Cover			
	<u>-</u>	_ = Total Cover			
% Bare Ground in Herb Stratum 0				Hydrophytic Vegetation	
				Present?	
Remarks:			_		
The wetland vegetation is dominated by reed canary grass w	ith common spikerus	h, Baltic rush, and	softstem bulrush a	also common.	

SOIL Sampling Point: w-156n46.

Histosol (A1) Sandy Gleyed Matrix (S4) Izm In Histosol (A1) Sandy Gleyed Matrix (S4) Izm In Histo Epipedon (A2) Sandy Redox (S5) Coast I Histo Epipedon (A2) Sandy Redox (S5) Dark S Da	licators.)
Nype: C-Concentration, Pr-Depiction, RM-Reduced Matrix, MS-Masked Sand Grains. Histoc Soll Indicators:	Remarks
Histosol (A1)	Kemarks
Indicators: Histosoi (A1) Sandy Gleyed Matrix (S4) Sondy Redox (S5) Coast I Histosoi (A2) Sandy Redox (S5) Coast I Histosoi (A2) Sandy Redox (S5) Coast I Histosoi (A2) Sandy Redox (S5) Coast I Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) High Palm Straffled Layers (A5) Loamy Gleyed Matrix (F2) (LRR K, L) Icm Muck (A9) (LRR F, G, H) Depleted Matrix (F3) Redox Depleted Below Dark Surface (A12) Depleted Matrix (F3) Redox Dark Surface (F6) Red Palm (A12) Redox Dark Surface (F7) Very S1 Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Very S1 Som Mucky Peat or Peat (S2) (LRR G, H) High Plains Depressions (F16) Sindicators (F7) Very S1 Som Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 73 of LRR H) Midicators (F7) Strictive Layer (If present): Hydric Soil Present? Type: Depth (inches): Hydric Soil Present? Type: Depth (inches): Hydric Soil Present? Type: Hydrology Indicators: Hydrology Indicators: Sinday Fall (A2) Salt Crust (B11) High Water Table (A2) Salt Crust (B11) High Water Table (A2) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Yes Sediment Deposits (B1) Dory-Season Water Table (C2) Salturation (A3) Hydrogen Sulfide Odor (C1) Yes Sediment Deposits (B1) Order (Explain in Remarks) Yes Soil Water Marks (B1) Dory-Season Water Table (C2) Sediment Deposits (B3) (Where not tilled) Very Soil Present? No Depth (Inches) Hydrogen Sulfide Odor (C7) Yes Soil Water Present? No Depth (Inches) Hydrogen Sulfide Odor (C7) Yes Soil Water Present? No Depth (Inches) Second Soil Present? N	
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Icm Muck (A9) (LRR F, G, H)	outside of MLRA 72 & 73)
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Type:	r problematic.
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Water Marks (B1)	Sparsely Vegetated Concave Surface (B8)
Sediment Deposits (B2) Drift Deposits (B3) (where not tilled) Algal Mat or Crust (B4) Iron Deposits (B5) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) eld Observations: urface Water Present? No Depth (inches) surtation Present? No Depth (inches) wetland Fincludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: SArmy Corps of Engineers	Diamage ratterns (D10)
Drift Deposits (B3) (where not tilled) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Thin Muck Surface (C7) Yes Water-Stained Leaves (B9) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) eld Observations: Irrface Water Present? No Depth (inches) Present? Algal Mat or Crust (B4) Present? No Depth (inches) Wetland Fincludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: the wetland is located in a depression and borders an excavated pond.	Oxidized Rhizospheres on Living Roots (C3)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Iron Deposits (B5) Thin Muck Surface (C7) Water-Stained Leaves (B9) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) eld Observations: Irface Water Present? No Depth (inches) Inturation Present? No Depth (inches	(where tilled)
Iron Deposits (B5) Thin Muck Surface (C7) yes Other (Explain in Remarks) yes Depth (Inches)	Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) eld Observations: urface Water Present? No Depth (inches) fater Table Present? No Depth (inches) sturation Present? No Depth (inches) wetland Fincludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: the wetland is located in a depression and borders an excavated pond.	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7) eld Observations: urface Water Present? No Depth (inches) uturation Present? No Depth (inches) wetland Fincludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: emarks: the wetland is located in a depression and borders an excavated pond.	Geomorphic Position (D2)
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arface Water Present? No Depth (inches) Patter Table Present? No Depth (inches) Puturation Present? No Depth (inches) Puturation Present? No Depth (inches) Wetland Head of the control	Frost-Heave Hummocks (D7) (LRR F)
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