L3R	D DETERMINA Marsh		rivi - Great Pi	-	2015-06-06
Enbridge	//County:		inesota	Sampling Date:	w-156n46w27-a1
Applicant/Owner: ACM/KRG		State:		Sampling Point:	
Investigator(s):		Section, Towns	hip, Range:	-	
depression Landform (hillslope, terrace, etc.):		Local Relie	f (concave, con	Conca vex, none):	0-2 Slope (%):
Subregion (LRR or MLRA):	Latitude	48.304005456	5202 Longi	-96.56581347 tude:	
Minnesota State Plane North, NAD 83 Datum:					
I24A					
Soil Map Unit Name:				NWI Classificatio	n: Yes
Are climatic/hydrologic conditions on the site typical					
Are Vegetation, Soil, or Hydrology	_ significantly d	isturbed? Are "	Normal Circums	Yes stances" present?	
Are Vegetation, Soil, or Hydrology	naturally proble	matic? (If need	led, explain any	answers in Remarks)	
······································	,	(,,	,	
SUMMARY OF FINDINGS - Attach site map showi		nt locations, tra	insects, import	ant features, etc.	
Y Hydrophytic Vegetation Present?	es	Is the Sam	pled Area		
Y Hydric Soil Present?	es	within a W	/etland?	Yes	
· Yı	es	If yes, opti	onal Wetland S	ite ID:	
Wetland Hydrology Present?	a separate repo				
The wetland is a fresh wet meadow located in a ditc			ire.		
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: 2	(A)
2				Total Number of Dominant	
3		_		2 Species Across All Strata:	(B)
4				Percent of Dominant Species	
	0	= Total Cover		100 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 27.00	x 1 27
4.				FACW species 75.00 FACU species 0.00	x 2 150 x 3 20
4 5				UPL species 0.00	x3 <u></u>
	0	= Total Cover		Column Totals 107	(A) <u>197</u> (B)
Herb Stratum (Plot Size: 5)				Prevalence Index = B/	A = <u>1.8411214</u>
1. Phalaris arundinacea 2. Typha angustifolia	75.00	Yes	FACW	Hydrophytic Vegetation Indicators	
2. Poa pratensis	25.00 5.00	- Yes No	FACU	yes 1 - Rapid Test for Hydroph yes 2 - Dominance Test is > 50	, ,
4. Carex pellita	2.00	No	OBL	yes 3 - Prevalence Index is ≤ 3	
5				4 - Morphological Adaptat	ions ¹ (Provide
6				supporting data in Remarks or or	i a separate sheet)
7				Problematic Hydrophytic Vegetation	1 ¹
8				(Explain)	
9				¹ Indicators of hydric soil and wetland hydrol unless disturbed or problematic.	ogy must be present,
10				-	
	107	= Total Cover			
Woody Vine Stratum (Plot Size:)					
1				-	
2				-	
	0	= Total Cover			
% Bare Ground in Herb Stratum 0				Hydrophytic	
				Vegetation Present?	
Remarks:					
The wetland is dominated by narrow-leaf cattail and reed can	ary grass.				

JS Army Corps of Engineers			Sampling Point: w-156n46.
OIL	danth naadad	to document the indicator or confirm t	the abconce of indicators)
epth Matrix	depth needed	to document the indicator or confirm t Redox Features	the absence of indicators.)
nches) Color (moist)	%	Color (moist) % Type ¹ Loc ²	Texture Remarks
	70		Texture Relians
ype: C=Concentration, D=Depletion, RM=	Reduced Matrix,	MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Mat
ydric Soil Indicators:			Indicators for Problematic Hydric Soil ³ :
Histosol (A1)		Sandy Gleyed Matrix (S4)	1cm Muck (A9) (LRR I, J)
Histic Epipedon (A2)		Sandy Redox (S5)	Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)		Stripped Matrix (S6)	Dark Surface (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 outside of MLRA 72 & 73)
1cm Muck (A9) (LRR F, G, H)		Depleted Matrix (F3)	Reduced Vertic (F18)
Depleted Below Dark Surface (A11)		Redox Dark Surface (F6)	Red Parent Material (F21)
Thick Dark Surface (A12)		Depleted Dark Surface (F7)	Very Shallow Dark Surface (TF12)
7			
Sandy Mucky Mineral (S1)		Redox Depressions (F8)	Other (explain in remarks)
2.5cm Mucky Peat or Peat (S2)(LRR (5, H)	High Plains Depressions (F16)	³ Indicators of hydrophytic vegetation and
5cm Mucky Peat or Peat (S3) (LRR F)		(MLRA 72 & 73 of LRR H)	wetland hydrology must be present, unless
			disturbed or problematic.
estrictive Layer (if present):			
estrictive Layer (if present): Type:			Var
Type: Depth (inches):			Hydric Soil Present? Yes
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Type: Depth (inches): marks: iils could not be sampled due to the proxis minance of hydrophytic vegetation. YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one i Surface Water (A1) High Water Table (A2)	mity of existing p	ipelines and the location within a roadside ditch eck all that apply) Salt Crust (B11) Aquatic Invertebrates (B13)	Soils are assumed hydric based on the landscape position and Secondary Indicators (minimum of two require Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
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