L3R	D DETERMINATI Marsha		RM - Great Pl	-	2015-06-08
Project/Site: City Enbridge	y/County:	Min	nesota	Sampling Date:	w-156n46w27-d1
Applicant/Owner:		State:		Sampling Point:	
	S	Section, Towns	hip, Range:		
depression Landform (hillslope, terrace, etc.):				Conca vex, none):	0-2 Slope (%):
Subregion (LRR or MLRA):	Latitude:	48.297336981	L6 Longit	-96.55677946 tude:	
Minnesota State Plane North, NAD 83 (Datum:	(2011) U.S. feet				
Soil Map Unit Name:				NWI Classificatio	on:
Are climatic/hydrologic conditions on the site typical	for this time of y	ear? (if no, exp	lain in Remarks	»):	Yes
Are Vegetation, Soil, or Hydrology	significantly dis	turbed? Are "I	Normal Circums	Yes Yes	
Are Vegetation, Soil, or Hydrology	naturally problem	natic? (If need	ed, explain any	answers in Remarks)	
SUMMARY OF FINDINGS - Attach site map showing	ng sampling poin	t locations, tra	nsects, import	ant features, etc.	
Yee Hydrophytic Vegetation Present?	es	Is the Sam	pled Area		
Ye	es			Yes	
Hydric Soil Present? Ye	es	within a W			
Wetland Hydrology Present?	<u> </u>		onal Wetland Si		
Remarks: (Explain alternative procedures here or in The wetland is a fresh wet meadow located in a ditcl			ы		
		dilu a crop ile.	u.		
VECETATION Use scientific names of plants					
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: 3	(A)
2.				Total Number of Dominant	
3				3 Species Across All Strata:	(P)
3				Species Across All Strata: Percent of Dominant Species	(B)
4			·	100	
15	0	= Total Cover		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot Size: 15)				Prevalence Index worksheet:	
1		·		Total % Cover of:	Multiply by:
2			·	OBL species 30.00 EACW species 82.00	
3			·		_ ^2
4			·		_ ^
5	0	= Total Cover		UPL species 0.00 Column Totals 124	x 4 0 (A) 232 (B)
Herb Stratum (Plot Size: 5)	<u> </u>	- 10(0) 6046.		Prevalence Index = B/	_ ()
1. Spartina pectinata	40.00	Yes	FACW	Hydrophytic Vegetation Indicators	
2. Phalaris arundinacea		Yes	FACW	yes 1 - Rapid Test for Hydroph	
3. Carex pellita	25.00	Yes	OBL	yes 2 - Dominance Test is > 50	
4. Solidago gigantea	10.00	No	FAC	yes 3 - Prevalence Index is ≤ 3	
5. Typha angustifolia	5.00	No	OBL	4 - Morphological Adaptat	
6. Poa annua	2.00	No	FACU	supporting data in Remarks or or	n a separate sheet)
7. Carex sartwellii	2.00	No	FACW	Problematic Hydrophytic Vegetation	n ¹
8				(Explain)	
9				¹ Indicators of hydric soil and wetland hydrol – unless disturbed or problematic.	logy must be present,
10				uniess disturbed of proventation	
10	124	Total Cover		-	
Woody Vine Stratum (Plot Size:)	124	= Total Cover			
1				-	
2				-	
	0	= Total Cover			
% Bare Ground in Herb Stratum 10				Hydrophytic	
				Vegetation Present?	
				Present	
Remarks:					
The vegetation is dominated by reed canary grass, prairie cord	grass, and woolly sec	lge.			

		Sampling Point: <u>W-156n46</u> .
	e depth needed to document the indicator or confirm	m the absence of indicators.)
epth Matrix	Redox Features	2
nches) Color (moist)	% Color (moist) % Type ¹ Lo	oc ² Texture Remarks
	=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Mat
vdric 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)
¬		, <u> </u>
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	G, 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.
strictive Layer (if present):		
estrictive Layer (if present): Type:		Ver
		Hydric Soil Present? Yes
		Hydric Soil Present? Yes
Type: Depth (inches): emarks:		
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Type: Depth (inches): emarks: oils were not sampled due to the location		
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Type: Depth (inches): marks: ils were not sampled due to the location YDROLOGY etland Hydrology Indicators: imary Indicators (minimum of one ^S Surface Water (A1) High Water Table (A2) Saturation (A3)	within a roadside ditch. Hydric soils are assumed based on the sis required; check all that apply) General Salt Crust (B11) General Salt Crust (B13) General Hydrogen Sulfide Odor (C1)	e landscape position and dominance of hydrophytic vegetation. <u>Secondary Indicators (minimum of two require</u> Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) <u>Yes</u> Drainage Patterns (B10)
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