WETLAND DETERMINATION DATA FORM - North Central and Northeast Region

SPP Project/Site:	Ci [†]	Carlton ty/County:		Sampling	2015-06-27 g Date:	
Applicant/Owner:	ridge		Minnesota State:	Sampling	CR162h1W Sampling Point:	
ACM/LE Investigator(s):		Sec	tion, Township, Range: _			
Landform (hillslope, terrace, etc.):	pression			Conca onvex, none): 92.178549	0-2 Slope (%): Minnesota State	
Subregion (LRR or MLRA):		Latitude:	Lor	92.178549 ngitude:	Datum:	
Soil Map Unit Name:				. NWI Class	sification:	
Are climatic/hydrologic conditions on	the site typica	al for this time of year	? (if no, explain in Rema	rks):	Yes	
Are Vegetation No	No Hydrology) significantly distur	hed? Are "Normal Circu	Yes		
No No No Are Vegetation, Soil, or H	No					
·	,	- ,,	, , ,	,		
SUMMARY OF FINDINGS - Attach			ocations, transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?		Yes ——	Is the Sampled Area			
		Yes within a Wetland?			Yes	
Hydric Soil Present?	. - 1	 Yes				
Wetland Hydrology Present?			If yes, optional Wetland Site ID:			
Remarks: (Explain alternative proced	lures here or in	n a separate report.)				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicate	ors (minimum of two required)	
Primary Indicators (minimum of one	is required: ch	eck all that annly)		Surface Soil	Cracks (B6)	
Surface Water (A1)	3 required, en	Water-Stained Leave	es (B9)	Drainage Pa		
yes High Water Table (A2)		Aquatic Fauna (B13)	· ·		Moss Trim Lines (B16)	
yes Saturation (A3)		Marl Deposits (B15)			Dry-Season Water Table (C2)	
			Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)	
		-	Oxidized Rhizospheres on Living Roots (C3)		Saturation Visible on Aerial Imagery (C9)	
, , ,		Presence of Reduced Iron (C4)		Stunted/Stressed Plants (D1)		
		Recent Iron Reduction	Recent Iron Reduction in Tilled Soils (C6)		yes Geomorphic Position (D2)	
Iron Deposits (B5) Thin N		Thin Muck Surface (in Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) — Other (Ex		Other (Explain in Re	cplain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)			_		Test (D5)	
Field Observations:						
Surface Water Present?	No	Depth (inches)	·			
Water Table Present?	Yes	Depth (inches)	12			
Saturation Present?	Yes	Depth (inches)	6	Wetland Hydrology Pre	sent? <u>Yes</u>	
(includes capillary fringe)						
Describe Recorded Data (stream gauge	ge, monitoring	well, aerial photos, p	revious inspections), if a	vailable:		
Remarks:						
The wetland is located in a depression	n and has satu	urated soil at 6 inches				
İ						

rer Species: Yes Yes Yes = Total Cove Yes No No No	PACU FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant 5 Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 42.00 x 1 42 FACW species 109.00 x 2 218 FACU species 52.00 x 3 80 UPL species 0 x 4 0 Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421 Hydrophytic Vegetation Indicators:	
Yes No No No No No No No N	FACU FACW FACW FACW FACU FACU	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant 5 Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species 42.00 x 1 42 FACW species 109.00 x 2 218 FACU species 52.00 x 3 80 UPL species 0 x 4 0 Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421	
Yes	FACW FACW FACU FACU	Total Number of Dominant Species Across All Strata:	
= Total Cove Yes Yes No No	FACW FACW FACU	Species Across All Strata:	
Yes Yes No No No	FACW FACU FACU	Species Across All Strata:	
Yes Yes No No No	FACW FACU FACU	Percent of Dominant Species 100 That Are OBL, FACW, or FAC:	
Yes Yes No No No	FACW FACU FACU	That Are OBL, FACW, or FAC:	
Yes Yes No No No	FACW FACU FACU	That Are OBL, FACW, or FAC:(A/B) Prevalence Index worksheet: Total % Cover of:	
Yes Yes No No No	FACW FACU FACU	Total % Cover of: Multiply by: OBL species 42.00 x 1 42 FACW species 109.00 x 2 218 FACU species 52.00 x 3 80 UPL species 0 x 4 0 Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421	
Yes Yes No No No	FACW FACU FACU	OBL species 42.00 x 1 42 FACW species 109.00 x 2 218 FACU species 52.00 x 3 80 UPL species 0 x 4 0 Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421	
Yes Yes No No No	FACW FACU FACU	FACW species 109.00 x 2 218 FACU species 52.00 x 3 80 UPL species 0 x 4 0 Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421	
Yes No No No	FACU FACU	FACU species 52.00 x 3 80 UPL species 0 x 4 0 Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421	
Yes No No No	FACU FACU	UPL species $0 \times 4 \times 0$ Column Totals $223 \times 4 \times 96 \times 6$ Prevalence Index = B/A = $\frac{2.22421}{6}$	
No No No	FACU FACU	Column Totals 223 (A) 496 (B) Prevalence Index = B/A = 2.22421	
No No	FACU	Prevalence Index = B/A = 2.22421	
No			
	FAC		
			
		1 - Rapid Test for Hydrophytic Vegetation	
		yes 2 - Dominance Test is > 50%	
= Total Cove	r	yes 3 - Prevalence Index is ≤ 3.0 ¹	
		4 - Morphological Adaptations 1 (Provide	
Yes	OBL	supporting data in Remarks or on a separate sheet)	
Yes	FACW	Problematic Hydrophytic Vegetation ¹ (Explain)	
No	FACW	- [
No	FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
No	FACU	Definitions of Vegetation Strata:	
No	FAC	7	
No	FACW	Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast	
No		height (DBH), regardless of height.	
No	FACW	Sapling/Shrub - Woody plants less than 3 in. DBH and greater than	
No	FACW	or equal to 3.28 ft (1 m) tall.	
		Herb - All herbaeceous (non-woody) plants, regardless of size, and	
		woody plants less than 3.28 ft tall.	
1 = Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.	
= 10tai 60vc	•	noon, times in moon, times greater than size term neighbor	
		Hydrophytic	
		Vegetation	
		Present?	
-Total Cover		-	
=10tal cover			
	Yes	Yes FACW No FACW No FACU No FACU No FAC No FACW No FACW No FACW No FACW	

Sampling Point: CR162h1W SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) **Redox Features** Type¹ Loc² (inches) Color (moist) % Color (moist) Texture Remarks 0-2 5YR 3 2 100 sic 5YR 3 2 2-10 85 7.5YR 5 8 15 С Μ sic 10-24 5YR 4 4 30 5YR 5 6 20 С M Mixed matrix 5YR 4 2 10-24 45 7.5YR 5 6 5 Mixed matrix С M ¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soil³: **Hydric Soil Indicators:** Polyvalue Below Surface (S8) (LRR R, MLRA 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histosol (A1) Coast Prairie Redox (A16)(LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Histic Epipedon (A2) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Black Histic (A3) Dark Surface (S7) (LRR K, M) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Stratified Layers (A5) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Iron-Maganese Masses (F12) (LRR K, L, R) Thick Dark Surface (A12) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Redox Depressions (F8) Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Stripped Matrix (S6)

Dark Surface (S7) (LRR R, MLRA 149B)

Redox features were observed in a dark silty clay layer.

Restrictive Layer (if observed):

Depth (inches):

Type:

Remarks:

Other (explain in remarks)

Hydric Soil Present? Yes