Applicant/Owner: Entridge State: Minnesota Sampling Point: U-S0n26w18-v1 Applicant/Owner: Entridge State: Sampling Point: U-S0n26w18-v1 Investigator(5); ZCW, MGH Section, Township, Range: Stampling Point: U-S0n26w18-v1 Investigator(5); ZCW, MGH Section, Township, Range: State: Montection: NAD83 Subregion (LRR or MLRA): Latitude: 46.8176416028 Longitude: 93.68318502 Datum: NAD83 Subregion (LRR or MLRA): Latitude: 46.8176416028 Longitude: 93.68318502 Datum: NAD83 Subregion (LRR or MLRA): Latitude: 46.8176416028 Longitude: 93.68318502 Datum: NAD83 Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks): NO NO NO Are Climatic/hydrologic regeters No No<	Project/Site: SPP		ty/County: Aitkin		al and Northeast Region	ling Date: 2016-08-22
Investigator(s): ZCW, MGH						
Landform (hillslope, terrace, etc.): <u>Nise</u> Local Relief (concave, convex, none): <u>VV</u> Slope (K): <u>3-7%</u> Subregion (LRR or MLRA):						ling Point: u-50n26w18-v1
Subregion (IRR or MLRA): Latitude: 46.8176416028 Longitude: -93.68318502 Datum: NAD83 Soil Mag Unit Name: 19280 NWI Classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No Are Vegetation No_Soil No_ or Hydrology No_ naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Is the Sampled Area Hydrology Present? No Within a Wetland? No Wetland Hydrology Present? No If yes, optional Wetland Site ID:	Investigator(s): ZCW, MGH		Section, Townshi			
Soil Map Unit Name: 928D NWI Classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed? Are "Normal Circumstances" present? Yes Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Hydric Soil Present? No If sets Sampled Area within a Wetland? No Wetland Hydrology Present? No If yes, optional Wetland Site ID: Mo Hydric Conditions are "wet" based on the results of a WETS analysis. Surface Vater (A1) Weter-Stained Leaves (189) Drainage Patterns (130) Muster Stained Leaves (189) Drainage Patterns (130) Modes Trainel (161) Gescondary Indicators (161) Mydric Surface Water (A1) Weter-Stained Leaves (189) Drainage Patterns (130) Surface Water (A1) Gescondary (161) Sufface Water (A1) Weter-Stained Leaves (189) Drainage Patterns (130) Gescondary Indicators (161) Gescondary Indicators (161) Sufface Water (A1) Weter-Stained Leaves (189) Drainage Patterns (130) Gescondary Indicators (161) <td>Landform (hillslope, terrace, etc.): <u>F</u></td> <td>lise</td> <td></td> <td>Local Relief (concave,</td> <td>convex, none):<u>VV</u></td> <td>Slope (%): <u>3-7%</u></td>	Landform (hillslope, terrace, etc.): <u>F</u>	lise		Local Relief (concave,	convex, none): <u>VV</u>	Slope (%): <u>3-7%</u>
Are climatic/hydrologic conditions on the site typical for this time of year? (if no, explain in Remarks): No Are Vegetation No_, Soil No_, or Hydrology No_ significantly disturbed? Are "Normal Circumstances" present? Yes_ Are Vegetation No_, Soil No_, or Hydrology No_ naturally problematic? (if needed, explain any answers in Remarks) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Hydric Soil Present? No within a Wetland? No Wetland Hydrology Present? No if yes, optional Wetland Site ID:	Subregion (LRR or MLRA):		Latitude: 46	5.8176416028 Lo	ongitude: <u>-93.68318502</u> .	Datum: NAD83
Are Vegetation No_, Soil No_, or Hydrology No_ auturally problematic? (If needed, explain any answers in Remarks) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No	Soil Map Unit Name: 928D				NWI C	lassification: N/A
Are Vegetation No_Soil No_or Hydrology No_naturally problematic? (If needed, explain any answers in Remarks) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No	Are climatic/hydrologic conditions of	on the site typica	al for this time of year	? (if no, explain in Rem	arks):	No
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? No Is the Sampled Area Wetland Hydrology Present? No If yes, optional Wetland? No Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis. HYDROLOGY Secondary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (86) Surface Water (A1) Water Stained Leaves (89) Drainage Patterns (810) High Water Table (A2) Aquatic Fauna (813) Moss Trim Lines (816) Saturation (A3) Mar Deposits (815) Dry-Season Water Table (C2) Water Marks (81) Hydrogen suffice Odor (C1) Crayfish Burrows (C8) Sediment Deposits (82) Oxid/dead Rhizospheres on Uving Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (82) Oxid/dead Rhizospheres on Uving Roots (C3) Saturation Visible on Aerial Imagery (87) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegatated Concave Surface (88) FAC-Neutral Test (D5) Field Observations: No Depth (inches) Surface Water Present?	Are Vegetation <u>No</u> , Soil <u>No</u> , o	or Hydrology <u>No</u>	Significantly disturb Significantly disturb	oed? Are "Normal Circo	umstances" present? Yes	<u>.</u>
Hydrophytic Vegetation Present? No Is the Sampled Area Hydric Soil Present? No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) If yes, optional Wetland Site ID: Climatic conditions are "wet" based on the results of a WETS analysis. If yes, optional Wetland Site ID: HYDROLOGY Secondary Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water Stained Leaves (B9) Drainage Patterns (B10) High water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Wetand Phydrology Indicators (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B1) Presence of Reduced Iron (C4) Stunted/Stressed Plants (D1) Agal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) In undation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Field Observations: No Depth	Are Vegetation <u>No</u> , Soil <u>No</u> , or	Hydrology <u>No</u>	_naturally problemation	c? (If needed, explain	any answers in Remarks)	
Hydric Soil Present? No within a Wetland? No Wetland Hydrology Present? No If yes, optional Wetland Site ID:	SUMMARY OF FINDINGS - Attac	h site map show	ving sampling point lo	cations, transects, imp	oortant features, etc.	
Wetland Hydrology Present? No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required; check all that apply) Surface Water (A1) Water-Stained Leaves (89) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Mail Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Nisble on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted/Stresed Plants (D1) Agail Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Geomorphic Position (D2) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Field Observations: No Depth (inches) Saturation Present? No Surface Water Present? No Depth (inches	Hydrophytic Vegetation Present?		No	Is the Sampled Area		
Remarks: (Explain alternative procedures here or in a separate report.) Climatic conditions are "wet" based on the results of a WETS analysis. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (86) Surface Water (A1) Water-Stained Leaves (89) High Water Table (A2) Aquatic Fauna (B13) Main Deposits (B1) Mard Deposits (B2) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Thin Muck Surface (C7) Main Deposits (B3) Presence of Reduced Iron (C4) Agala Mat or Crust (B4) Recent Iron Reduction in Tilled Solis (C6) Surface Water Present? No Depth (inches) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Surface Water Present? No Depth (inches) FAC-Neutral Test (D5) Surface Water Present? No Depth (inches) Saturation Present? Mo Depth (inches) Surface Water Present? No Depth (inches) Mo Surface W	Hydric Soil Present?		No	within a Wetland?		No
Climatic conditions are "wet" based on the results of a WETS analysis. HYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)	Wetland Hydrology Present?		No	If yes, optional Wetlar	nd Site ID:	
HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of one is required; check all that apply)	Remarks: (Explain alternative proc	edures here or i	n a separate report.)			
Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply)						
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted/Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Feld Observations: Surface Water Present? No Depth (inches) Wetland Hydrology Present? No Saturation Present? No Depth (inches) Mo Mo Includes capillary fringe) Destribe Recorded Data (stream gauge, monitoring well, aerial photo	HYDROLOGY					
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Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted/Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No Depth (inches) Wetland Hydrology Present? No Vater Table Present? No Depth (inches) Mo Mo Mo Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Mo Mo	High Water Table (A2)	_	Aquatic Fauna (B13)		Moss Trir	n Lines (B16)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted/Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) FAC-Neutral Test (D5) Field Observations: Saturation Present? No Depth (inches) Wetland Hydrology Present? No Saturation Present? No Depth (inches) Wetland Hydrology Present? No No Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Imagery (C9) Imagery (C9)	Saturation (A3)	_	Marl Deposits (B15)		Dry-Sease	on Water Table (C2)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted/Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No Depth (inches) Vater Table Present? No Saturation Present? No Depth (inches) Vetland Hydrology Present? No Cincludes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Vetland Hydrology Present? No	Water Marks (B1)	_	Hydrogen Sulfide Od	or (C1)	Crayfish B	urrows (C8)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) PAC-Neutral Test (D5) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No Depth (inches) No Water Table Present? No Depth (inches) No No Saturation Present? No Depth (inches) No No Obscribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No No	Sediment Deposits (B2)	_	Oxidized Rhizosphere	es on Living Roots (C3)	Saturation	visible on Aerial Imagery (C9)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No Water Table Present? No Depth (inches) No Saturation Present? No Depth (inches) Mo (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Mo	Drift Deposits (B3)	_	Presence of Reduced	l Iron (C4)	Stunted/S	tressed Plants (D1)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No Water Table Present? No Depth (inches) Saturation Present? No Depth (inches) Saturation Present? No Depth (inches) (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Algal Mat or Crust (B4)	_	Recent Iron Reduction	on in Tilled Soils (C6)	Geomorp	hic Position (D2)
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations:	Iron Deposits (B5)	_				
Field Observations: Surface Water Present? No Water Table Present? No Saturation Present? No Saturation Present? No Depth (inches)	Inundation Visible on Aerial Imager	ry (B7)	Other (Explain in Rer	narks)		• • • •
Surface Water Present? No Depth (inches) Mo Mo Depth (inches) Mo		:e (B8)			FAC-Neut	ral Test (D5)
Water Table Present? No Depth (inches)						
Saturation Present? No Depth (inches) Wetland Hydrology Present? No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: No						
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:						
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		No	Depth (inches)		Wetland Hydrology	Present? <u>No</u>
Remarks:	Describe Recorded Data (stream ga	iuge, monitoring	g well, aerial photos, p	revious inspections), if	available:	
	Remarks:			· · · · · · · · · · · · · · · · · · ·		
I contraction of the second						

VEGETATION - Use scientific names of plants.

Sampling Point: u-50n26w...

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot Size: <u>30</u>)	% Cover	Species?	Status	Number of Dominant Species
1. Quercus rubra	25.00	Yes	FACU	That Are OBL, FACW, or FAC: 0(A)
2. Tilia americana	5.00	No	FACU	Total Number of Dominant
3				Species Across All Strata: 4(B)
4.				Percent of Dominant Species
5.				That Are OBL, FACW, or FAC: 0 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	30	= Total Cover		OBL species 0.00 x 1 0
Sapling/Shrub Stratum (Plot Size: 15)				FACW species 0.00 x 2 0
1				FACU species 70.00 x 3 280
2				UPL species 30.00 x 4 150
3				Column Totals 100 (A) 430 (B)
4.				Prevalence Index = $B/A = 4.3$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				no 2 - Dominance Test is > 50%
	0	= Total Cover		no 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot Size: 5)				4 - Morphological Adaptations ¹ (Provide
1 Carex woodii	30.00	Yes		supporting data in Remarks or on a separate sheet)
2. Pteridium aquilinum	20.00	Yes	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Eurybia macrophylla	15.00	Yes	FACU	
4. Aralia nudicaulis	5.00	No	FACU	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5.				Definitions of Vegetation Strata:
				Demittons of Vegetation Strata.
6				Tree - Woody plants 3 in. (.76 cm) or more in diameter at breast
7		<u>-</u>		height (DBH), regardless of height.
8				Carling (Church Micrody plants lass than 2 in DDU and encodes than
9				Sapling/Shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				
11				Herb - All herbaeceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12				······
	70	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot Size: 30)				
1				_
2.				Hydrophytic
3.				Vegetation Present? No
4.				
	0	=Total Cover]
Remarks: (include photo numbers here or on a separate sheet.	.)			

US Army Corps of Engineers

Northcentral and Northeast Region – Version 2.0

SOIL _

Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remarks 0-3 10YR 3 2 100
0-3 10YR 3 2 100 FSL FSL
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ² Location: PL=Pore Lining, N
Hydric Soil Indicators: Indicators for Problematic Hydric Soil ³ :
Polyvalue Below Surface (S8) (LRR R, MLRA Histosol (A1)
Histic Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A16)(LRR K, L, R)
Black Histic (A3)
Hydrogen Sulfide (A4)
Stratified Layers (A5) Depleted Matrix (F3)
Depleted Below Dark Surface (A11)
Image: Depicted blow builded (11) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted blow builded (13) Image: Depicted (13) Image: Depicted blow builded (13) Image: Depicted (13) Image: Depicted (13) Image: Depicted (13) Image: Depicted (13)
Sandy Mucky Mineral (S1) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4) Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (S5)
Stripped Matrix (S6) Very Shallow Dark Surface (TF12)
Dark Surface (S7) (LRR R, MLRA 149B)
Restrictive Layer (if observed):
Depth (inches): 8 Hydric Soil Present? No
Remarks:

Site Photograph 1



Latitude: 46.817604010037

Longitude: -93.683096431283

Direction: East

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed:

Site Photograph 2



Latitude: 46.8176036328513

Longitude: -93.6830862891801

Direction: North

Remarks: Upland Cowardin Classification:

Circular 39:

Eggers & Reed: