Minnesota Wetland Conservation Act Item 7D.

Notice of Application

Local Government Unit (LGII)

Phone Number and E-mail Address

763-593-8034

BCWMC 3-16-17

Local Government Unit (LGU)		Address					
		· ·					
City Of Golden Valley	City Of Golden valley			7800 Golden Valley Road			
		Golden	Golden Valley, MN 55427				
1.	PROJECT IN	FORMATION					
Applicant Name	Project Name		Date of	Application			
John Ekola	CSAH 66 (Gol	den Valley	Application	Number			
	Road)/Bassett	Creek Culvert	3/8/17	NA NA			
	Replacement		0,0,1,	1124			
True of April 1 1 1 1 1							
Type of Application (check all that ap	ply):						
Wetland Boundary or Type	No-Loss	Exer	nption				
Sequencing							
Replacement	t Plan	Banki	ng Plan				
Summary and description of proposed	project (attach a	dditional sheets as	necessary).				
The culvert on CSAH 66 (Golden Va	illev Rd) over Ra	seett Creek is store	treally deficient	and to to 1			
of replacement. An attempt to develo	on renair nlang w	es mode but was de	turally denotent	and is in need			
will be replaced with a three sided br	idge in the same	as made out was de	amed unicasao.	le. The culvert			
with bo replaced with a time sided bi	rade m me same	location.					
• • •							
		EW AND DECIS					
Signing and mailing of this completed	form to the app	ropriate recipients	in accordance	with 8420.0255.			
Supp. 3 provides notice that an applica	tion was made to	the LGU under th	e Wetland Cons	servation Act as			
specified above. A copy of the applica	tion is attached.	Comments can be	submitted to:				
Name and Title of LGU Contact Person	on	Comments must	he received by	(minimum 15			
Jeff Oliver		business-day com		(
		3/31/17	mont portotty.				
Address (if different than LGU)		Date, time, and lo	action of deal-i	240.0			
(April 5, 2017	Cation of decisi	on:			
		лргц э, 2017					

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Decision-maker for this application:

Governing Board or Council

s selection			3/8/17
Signature:	3. LIST OF ADI		3/2/11
SWCD TEP member: Sta	acey Lijewski		
BWSR TEP member: Bet LGU TEP member (if diff DNR TEP member: Kate DNR Regional Office (if WD or WMO (if applicat Applicant (notice only) at Members of the public with the pub	ferent than LGU Contact) Drewry, Becky Horton different than DNR TEP ole): Laura Jester and Landowner (if differen	member)	
Corps of Engineers Project BWSR Wetland Bank Co		olan applications only)	
	4. MAILING INFO		
➤For a list of BWSR TEP repres			
>For a list of DNR TEP represen	ntatives: www.bwsr.state.	mn.us/wetlands/wca/DN	R_TEP_contacts.pdf
Department of Natural Resource NW Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 2115 Birchmont Beach Rd. NE Bemidji, MN 56601 For a map of DNR Administrate	NE Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 1201 E. Hwy. 2 Grand Rapids, MN 55744	Central Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 1200 Warner Road St. Paul, MN 55106	Southern Region: Reg. Env. Assess. Ecol. Div. Ecol. Resources 261 Hwy. 15 South New Ulm, MN 56073
>For a list of Corps of Project M or send to:			
> US Army Corp	et, ATTN: OP-R ast, Suite 700		
➤ For Wetland Bank Plan applica Minnesota Boa Wetland Bank 520 Lafayette 1 St. Paul, MN 5	ard of Water and Soil Reso Coordinator Road North		
	5. ATTACHN	MONTS	
In addition to the application, Location Map and Delie		6 e	

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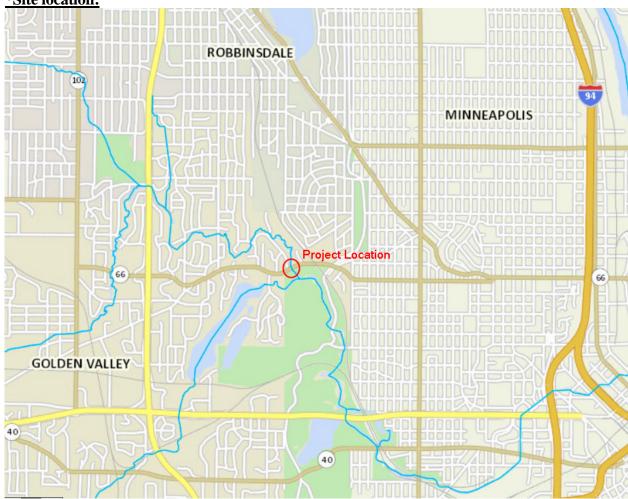
WETLAND DELINEATION REPORT

CSAH 66 City of Golden Valley, MN August, 2016

Prepared by:

Hennepin County Environmental Services. Attn: Tony Brough, 1600 Prairie Dr. Medina, MN 55340 612-348-4378

*Site location:



*Description of conditions at the time of review:

The project area was reviewed in the fall of 2015 and summer of 2016. Site conditions were basically normal for the time of the inspections.

*Purpose of the delineation

This wetland assessment is to assist the Hennepin County Transportation Department design team with necessary wetland information to base permitting determinations. The primary project is a culvert replacement along Bassett Creek, CSAH 66.

*Methodology

Wetlands were delineated in accordance with the *Corps of Engineers* (USACE) *Wetland Delineation Manual* (Waterways Experiment Station, 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Regional Supplement as required by Section 404 of the Clean Water Act and the Minnesota Wetland Conservation Act.

Wetland boundaries were identified as the upper-most extent of wetlands, which met criteria for hydric soils, hydrophytic vegetation, and wetland hydrology. Soils, vegetation and hydrology were documented at representative locations following typical guidance using the Routine Determination methodology. Soil colors are described in accordance with *Munsell Soil Color Charts* (1992 Revised Edition).

The Wetland classifications are based on the United States Fish and Wildlife Service (USFWS) publications *Wetlands and Deepwater Habitats of the United States* (Cowardin, 1979), *Wetlands of the United States* (Circular 39), and the *Wetlands Plants and Plant Communities of Minnesota & Wisconsin* (Eggers & Reed).

*Mapping resources & data forms

Attached: Four data sheets document the conditions about 25 ft downslope and 25 ft upslope of the boundary. Basic in-office mapping resources are attached.

*Results and discussion

Flowing from north to south is a DNR Public Water - Bassett Creek. The Creek itself is to be mapped as a Riverine System and under the DNR regulation.

There are floodplain wetlands delineated on both side of CSAH 66. The primary hydrology for the identified wetlands are flood waters from Bassett Creek.

The vegetation and hydrology are generally exhibiting "normal circumstances." All three parameters have been historically altered in portions of the project from the original road construction and maintenance (includes fill, culverts, etc.). The original road construction hydrologic alterations have stabilized and remained consistent for numerous years, so the vegetation is representative of current growing hydrologic conditions.

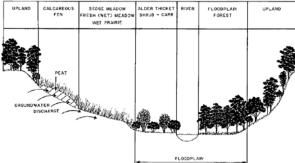


FIGURE 6 — GENERALIZED CROSS SECTION OF WETLAND
PLANT COMMUNITIES IN A RIVER VALLEY

North Side of CSAH 66: Type 1 (PFO1A) – Hardwood Swamp

This delineated boundary follows a typical "simple slope" with the herbaceous vegetation layer changing from FacU to FacW species along a fairly steep slope. This includes a well-defined shoulder, slope, foot-slope, and toe-slope typical of roadside wetland delineations.

The first 40 feet north of the culvert has extremely steep slopes and no discernable floodplain wetland. This area will be mapped as riverine system only. As you continue north the slope flattens out to create a floodplain wetland dominated by reed canary grass, exposed soils due to flooding, a mixture of boxelder/green ash trees and an understory of common buckthorn.

South Side of CSAH 66: Type 1 (PEM1A) – Fresh (wet) Meadow & Shrub-Carr

South of the road, there is a narrow floodplain wetland on both sides of Bassett Creek. The creek bank has been riprapped and it also appears to have been historically re-seeded with native vegetation. With that, the dominate vegetation consists of sandbar willow and reed canary grass. Some other native herbaceous vegetation is mixed into these dominates. There appears to have been a previous wetland/upland delineation in this area utilizing orange flagging. My delineation concurred with this determination.

*Jurisdiction

WCA - The City of Golden Valley - Eric Eckman and Jeff Oliver (763-593-8084).

USACOE - Melissa Jenny (melissa.m.jenny@usace.army.mil)

DNR - MPARS - Public Waters Work Permit http://www.dnr.state.mn.us/mpars/index.html

*Conclusion

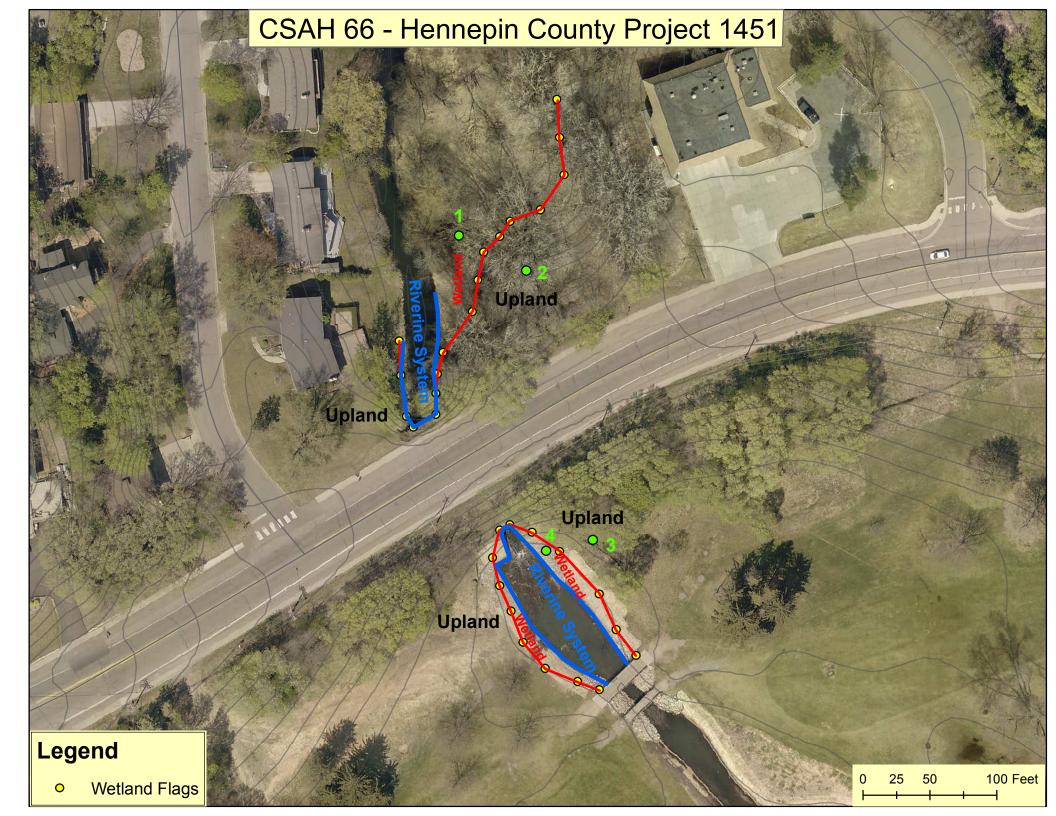
Wetland delineation services were performed with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions, including, but not limited to, time, proposed project, and budgetary constraints. No other warranty, express or implied, is made. Wetland boundaries and regulatory interpretations are subject to verification and/or corroboration by jurisdictional authorities. This report does not represent approval for any activities on the property. The ultimate responsibility for obtaining permits and approvals remains with the client.

If you have questions or would like further information, please contact me (612-348-4378).

Tony Brough (WCDP Cert #1082)

Top But

Hennepin County Environmental and Energy





Aug 20, 2015



Wetlands

Freshwater Emergent

Freshwater Forested/Shrub

Estuarine and Marine Deepwater

Estuarine and Marine

Freshwater Pond

Lake

Riverine

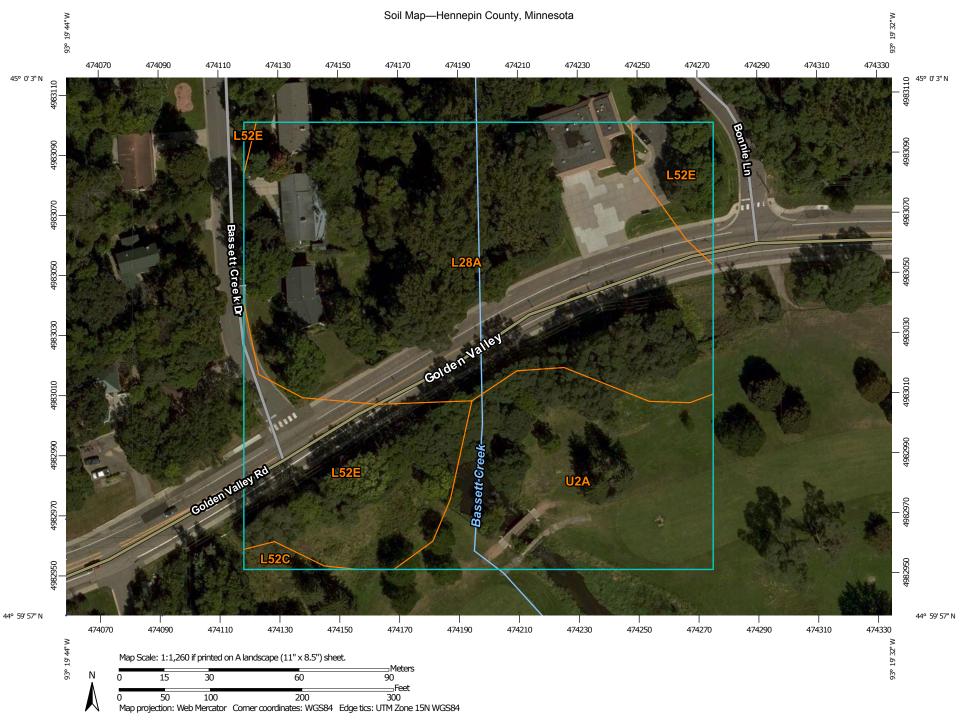
Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on

User Remarks:



Public Water Inventory – MN DNR 278 10-481 Sweeney Lake



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

☑ Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

▲ Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

→ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

__.._

Stony Spot

M Very Stony Spot

Spoil Area

Wet Spot

∧ Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Hennepin County, Minnesota Survey Area Data: Version 10, Sep 16, 2014

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Aug 26, 2014—Sep 7, 2014

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Hennepin County, Minnesota (MN053)						
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI			
L28A	Suckercreek fine sandy loam, 0 to 2 percent slopes, occasionally flooded	3.2	56.1%			
L52C	Urban land-Lester complex, 2 to 18 percent slopes	0.0	0.8%			
L52E	Urban land-Lester complex, 18 to 35 percent slopes	1.2	20.2%			
U2A	Udorthents, wet substratum, 0 to 2 percent slopes	1.3	23.0%			
Totals for Area of Interest		5.8	100.0%			

WETLAND DETERMINATION DATA FORM — Midwest Region

Project/Site: CSAN 66- Golden Vally	Citv/Co	untv: Her	nen / Go V. U. Ily Samplin	o Date: 9-1-15
Applicant/Owner:			State: Samplin	
	Section		ange: 17 Tilon R.	• ———
Landform (hillslope, terrace, etc.):		Local ratios	f (concerts control none):	
Slope (%):	l ona:	51434.7	71 (NC) 17171. ILY H	Here Count
Soil Map Unit Name: L28 A - Seleccek S	in solo		NWI or WWI classificati	nn PFOID
Are climatic / hydrologic conditions on the site typical for the	nis time of year? Ye	s X No	(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology		_		17.7
Are Vegetation, Soil, or Hydrology		and the second s	eeded, explain any answers in Rem	
SUMMARY OF FINDINGS – Attach site map		•		•
	No			
	vio I .	s the Sampled	/ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4o '	vithin a Wetla	nd? (Yes No	 -
Remarks:				
VEGETATION – Use scientific names of plants	 			
- Coc scientific harnes of plants		ant Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover Specie		Number of Dominant Species	
1. Green Ash "Frances perseguere"	- 40 <u>Y</u>	- Frew	That Are OBL, FACW, or FAC:	(A)
2. Boxelle "Badde" "Ave regit"	<u>50 V</u>	Fac	Total Number of Dominant	
3			Species Across All Strata:	(B)
4			Percent of Dominant Species	
<u> </u>	= Total	Cover	That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size: phoney Collection " phoney Collection"	1000		Prevalence Index worksheet:	
•	100 Y	_ rc	Total % Cover of:	Multiply by:
2			OBL species x 1	
3			FACW species x2	
4 5			FAC species x 3	
	= Total	Cover	UPL species x 5	
Herb Stratum (Plot size:)			Column Totals:(A)	
1. Keedlang gois "Philor overher	70 Y	Fich		
2.			Prevalence Index = B/A =	
3			Hydrophytic Vegetation Indicat X Dominance Test is >50%	ors:
4 5			Prevalence Index is ≤3.01	
5 6			Morphological Adaptations¹ (Provide supporting
7.			data in Remarks or on a s	eparate sheet)
B			Problematic Hydrophytic Veg	etation¹ (Explain)
9			11-12-1	
10	. <u></u>		Indicators of hydric soil and wetland be present, unless disturbed or present.	and hydrology must oblematic.
Noody Vine Stratum (Plot size:)	= Total	Cover		
			Hydrophytic	
2	·	 	Vegetation	
	= Total (Cover	Present? Yes	No
Remarks: (Include photo numbers here or on a separate				
	onect.)			
·				
_				

Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type¹ Loc	.2 Texture _	Remarks
(Inches) Color (moist) %	(5. ~ 1 10 m/K)	Mila	S-1 10-00X
	2544/4	-	- F
18-W NR 5/2	<u> </u>		
		-	
			
¹ Type: C=Concentration, D=Depletion, RM=R	educed Matrix, CS=Covered or Coated Sar		on: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:			r Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)		airie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)		ganese Masses (F12)
Black Histic (A3)	Stripped Matrix (S6)	Other (Ex	plain in Remarks)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2)		
X Stratified Layers (A5) 2 cm Muck (A10)	Depleted Matrix (F3)		
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)		
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	3Indicators of	hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland h	ydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless di	sturbed or problematic.
Restrictive Layer (if observed):			
Туре:			1/
Depth (inches):		Hydric Soil Pr	esent? Yes X No
	•		
· · · · · · · · · · · · · · · · · · ·			
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is required			Indicators (minimum of two required)
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WEILAND DEIE	KIVIINAI	ION DA	A FORM	- Midwest Region
Project/Site: CAH 66- Golly V.14	· · · · · · · · · · · · · · · · · · ·	City/County	r. Hen	. C. Gold WY Sampling Date Z
Applicant/Owner:				State: Sampling Point: 9-1-
· · · · · · · · · · · · · · · · · · ·				ange: 17, T. 118N R. 21U
Landform (hillslope, terrace, etc.):			Local relief	(concave, convex, none):
Slope (%): 10-15 Lat: 5-14447.162 F		Long:	7634	7.717ft Datum: Hen. Carl
Soil Map Unit Name: 128A Sulvous Gir	-S-J	(NWI or WWI classification:
Are climatic / hydrologic conditions on the site typical for this	s time of ye	ar? Yes	X_ №_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology s	ignificantly	disturbed?	Are Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology r	aturally pro	blematic?	(If no	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	o_ t <	ł	ie Samplec	~ I
Remarks:	•	Ø,		
CODE HIST	INL fo	1 L		
VEGETATION – Use scientific names of plants.				
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species
1. Doxeldo " Aco negend "	40	<u>Y</u>	Fac.	That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
4. 5.				Percent of Dominant Species That Are OBL, FACW or FAC: (A/B)
·		= Total Cov	/er	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:) 1. Europe Brickhon "Planes Callaba"	9.0	\mathcal{V}	Y	Prevalence Index worksheet:
1. Europe (Southern Kinnys Control	10		Fil	Total % Cover of: Multiply by: OBL species
3				FACW species
4.				FAC species
5				FACU species x 4 = 0 §
Herb Stratum (Plot size:)		= Total Cov	er/er	UPL species 0 $x = 0$
1. Good way "Albarra petrolial	30	Y	Fac	Column Totals: 4 (A) 3 H (B)
2. Virgon outer "P gran CV"	20	<u>y</u>	Field	Prevalence Index = B/A = 4:3.5
3. Strusent "Hackele Virgaian"	20	<u>V</u>	FC)	Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				— Prevalence Index is ≤3.0¹ (M/µ) — Morphological Adaptations¹ (Provide supporting
6				data in Remarks or on a separate sheet)
8.				Problematic Hydrophytic Vegetation¹ (Explain)
9				Indicators of hydric soil and wetland hydrology must
10.				be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= Total Cov	er	
1				Hydrophytic
2				Vegetation Present? Yes No
		= Total Cov	er	
Remarks: (Include photo numbers here or on a separate s	heet)			

' '	depth needed to document the indicator or conf	
Depth Matrix (inches) Color (moist) %	Redox Features Color (meist) % Type1 Loc2	Texture Remarks
1		Texture Treatment
0-16 mid 011	_ m-tem	
¹ Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, CS=Covered or Coated Sand	1 Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soll Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Iron-Manganese Masses (F12) Other (Explain in Remarks)
Black Histic (A3)	Stripped Matrix (S6) Loamy Mucky Mineral (F1)	Other (Explain in Remains)
Hydrogen Sulfide (A4) Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)		
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	3Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:	·	
Depth (inches):	·	Hydric Soil Present? Yes No
Remarks:	~1	111
Busel of the	veg. + had colors Sid	,
HYDROLOGY		
Wetland Hydrology Indicators:		
	equired; check all that apply)	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is re	- -	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Primary Indicators (minimum of one is re Surface Water (A1)	Water-Stained Leaves (B9)	
Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9)Aquatic Fauna (B13)True Aquatic Plants (B14)	Surface Soil Cracks (B6)Drainage Patterns (B10)
Primary Indicators (minimum of one is re Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
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WETLAND DE	TERMINAT	ION DATA FORM	– Midwest Region
Project/Site: CSHN 66 ~ G CL WIY Applicant/Owner:		City/County: 14mm	Conf Goll, w Kampling Date: 3
Applicant/Owner:			State: M Sampling Point: 4-/
Investigator(s): T. Bru		Section, Township, Ra	ange: 17, Tilkw, R. ZI
Landform (hillslope, terrace, etc.):			(concave, convex, none):
Slope (%): Lat: 5/44(0, 04)	- C/-	Long: 176140	672 Pt Datum: Horn, Cat
Soil Map Unit Name: LZ8A-Sulcreet 4	ine c. A. I		NWI or WWI classification:
Are climatic / hydrologic conditions on the site typical for			
Are Vegetation, Soil, or Hydrology	significantly	disturbed? A) Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	neturally nro	hlematic? A / (If no	peded, explain any answers in Remarks.)
• — · · · · · · · · · · · · · · · · · ·			
SUMMARY OF FINDINGS – Attach site ma	ap showing	sampling point i	ocations, transects, important features, etc.
Hýdrophytic Vegetation Present? Yes	No_X	Is the Sample	1 Area
Hydric Soil Present? Yes	No X	within a Wetla	1/
Wetland Hydrology Present? Yes	No		
Remarks:			
VEGETATION – Use scientific names of plan	nts.		
	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover	Species? Status	Number of Dominant Species
1. Breen of "Aver legend" 2. Green of " Frishs peocyluste"		Y Free Free Property	That Are OBL, FACW, or FAC:(A)
2 GRAZY MANNS procedusia		7 1200	Total Number of Dominant Species Across All Strata: (B)
4			
4 5.			Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)
		= Total Cover	
Sapling/Shrub Stratum (Plot size:	· ·		Prevalence Index worksheet:
1			
2			FACW species x 2 = x Z
3			FAC species Z x3 = x6 6
5			FACU species 3 x 4 = 17
		= Total Cover	UPL species x 5 =0
Herb Stratum (Plot size:		VE	Column Totals: 6 (A) x(20 (B)
1. Gint regarding Andrews tolling		- Factor	Prevalence Index = B/A =
3. Whe sale som habore of the		V Feel)	Hydrophytic Vegetation Indicators:
4. Urgra Stateed" Hockel - virginian"		FLU FLU	Dominance Test is >50%
5			✓ Prevalence Index is ≤3.0¹
6.			Morphological Adaptations ¹ (Provide supporting
7			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
8			Froblematic Tryotophytic vegetation (Explain)
9			¹ Indicators of hydric soil and wetland hydrology must
10			be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		= Total Cover	
1			Hydrophytic
2.			Vegetation Present? Yes No
		= Total Cover	
Remarks: (Include photo numbers here or on a separa	ate sheet.)		
Down upl I howen layer			
Ashin) bin, where was	, .		

CAIL	

Sampling Point: (3)

Profile Description: (Describe to the dept		
Depth Matrix (inches) Color (moist) %	Redox Features Color (moist) % Type ¹ Loc ²	Texture Remarks
	Color (moist) % Type ¹ Loc ²	
0-16 104R 417		_ 10-7 5-X
<u> </u>		
		
¹ Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, CS=Covered or Coated Sand	Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soll Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Iron-Manganese Masses (F12)
Black Histic (A3)	Stripped Matrix (S6)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loarny Mucky Mineral (F1)	
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	
2 cm Muck (A10)	Depleted Matrix (F3)	
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	³ Indicators of hydrophytic vegetation and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present,
5 cm Mucky Peat or Peat (S3)	Nedox Depressions (1 5)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:		
. 164.		Hydric Soil Present? Yes No
Denth (inches):		
Depth (inches):Remarks: Mu column and or	moticular solution	
Remarks: Michiem and or	moliches while	
YDROLOGY	moticales salelled	
YDROLOGY Wetland Hydrology Indicators:		
Remarks: Wo colour and or YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is require	ed; check all that apply)	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require Surface Water (A1)	ed; check all that apply) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Pemarks: Who colors and or	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3)	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ed; check all that apply) — Water-Stained Leaves (B9) — Aquatic Fauna (B13) — True Aquatic Plants (B14) — Hydrogen Sulfide Odor (C1)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
YDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) ots (C3) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2)
Remarks: /// CN LONG IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Remarks: /// CNIRM And For Control of the Control	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B6)	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2)
Remarks: /// CNIENT And FOR CONTROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required and selection of the se	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2)
Remarks: /// CNIENT And FOR CONTROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required and selection of the se	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2)
Remarks: Wetland Hydrology Indicators: Primary Indicators (minimum of one is require	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) O X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
Remarks: W CN LOW A CN LOW AND	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) O X Depth (inches):	 Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2)
Remarks: Wo CN CN CN CN	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) O X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
No CNIENT AND	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) O X Depth (inches): - 16 O X Depth (inches): - 16	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
IYDROLOGY Wetland Hydrology Indicators: Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B6) Field Observations: Surface Water Present? Yes Noter Table Present? Yes Noter T	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) O X Depth (inches): - 16 O X Depth (inches): - 16	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)
Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B6) Field Observations: Surface Water Present? Yes Noter Table Present? Yes	ed; check all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) O X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) ots (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) (C6) Geomorphic Position (D2) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: CSAIN 66-Gold U-11		City/County: /	Hemp	_ Conf (6)11. 4 Bampling Date: 9-1-15
Applicant/Owner:				
Investigator(s): T. Bray/	···			ange: 17, T. 118N, R. ZIW
Landform (hillslope, terrace, etc.):				(concave, convex, none):
Slope (%): 5-10 Lat: 514447 160 A		Long: 174	1347.	710 Patrimit C Condition
Soil Map Unit Name:		2011g/		NWI or WWI classification;
Are climatic / hydrologic conditions on the site typical for the site ty	this time of vo	ara Van X		
Are Vegetation, Soil, or Hydrology	_ signincantly	disturbed?	Are	"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site mai				ocations, transects, important features, etc.
		/	 	obaliono, sanoboto, important roatures, etc.
Hydrophytic Vegetation Present? Yes	No	Is the S	Sampled	l Area
Hydric Soil Present? Wetland Hydrology Present? Yes	No	within	a Wetlaı	nd? Yes <u>~</u> No
Wetland Hydrology Present? Yes Yes				
	Rpp	moteral	e sto	the
VEGETATION – Use scientific names of plant	s.		·	
Troo Strotum (Diet sing.		Dominant Inc		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? S		Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3				Total Number of Dominant Species Across All Strata: (B)
4				 \
5				Percent of Dominant Species W 7 (A/B)
		= Total Cover		
Sapling/Shrub Stratum (Plot size: 1. Subscribed "Shr. menor"	40	Y fee)	Prevalence Index worksheet:
2				FACW species x 2 = 0
4				FAC species x 3 = 0
5				FACU species x 4 =0
		= Total Cover		UPL species x 5 =0
Herb Stratum (Plot size:) 1. Reelean gras "Phlones andre"	75	VF	أول	Column Totals: (A) (B)
2 2				Prevalence Index = B/A =0
3				Hydrophytic Vegetation Indicators:
4				Dominance Test is >50%
5				Prevalence Index is ≤3.0 ¹
6				Morphological Adaptations ¹ (Provide supporting
7				data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
8				(Toblematic Hydrophytic Vegetation (Explain)
9			 [Indicators of hydric soil and wetland hydrology must
10				be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	=	= Total Cover		
1				Hydrophytic
2				Vegetation
		Total Cover		Present? Yes No
Remarks: (Include photo numbers here or on a separate	sheet.)			•

Profile Description: (Describe to the de	oth needed to document the indicator or co	onfirm the absence of indicators.)
Depth Matrix	Redox Features	oc ² Texture Remarks
(inches) Cotor (moist) %	Golor (moist) % Type¹ Lc	oc ² Texture Remarks
Kprp Shiele - obst	<u>~</u>	
¹Tyne: C=Concentration D=Depletion RM	=Reduced Matrix, CS=Covered or Coated Sa	and Grains. ² Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)
Histic Epipedon (A2)	Sandy Redox (S5)	Iron-Manganese Masses (F12)
Black Histic (A3)	Stripped Matrix (S6)	Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)	
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)	*
2 cm Muck (A10)	Depleted Matrix (F3)	~
Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	³ indicators of hydrophytic vegetation and
Thick Dark Surface (A12)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Sandy Mucky Mineral (S1) 5 cm Mucky Peat or Peat (S3)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
	·	
HYDROLOGY		
Wetland Hydrology Indicators:		O dead ladicates (minimum of two socuired)
Primary Indicators (minimum of one is requ		Secondary Indicators (minimum of two required)
Surface Water (A1)	✓ Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	∠ Drainage Patterns (B10) Drainage Patterns (B10)
X Saturation (A3)	True Aquatic Plants (B14)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living F	Stunted or Stressed Plants (D1)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled So	FAC-Neutral Test (D5)
Iron Deposits (B5)	Thin Muck Surface (C7)	A 1 NO-INEUTIAL TEST (DO)
Inundation Visible on Aerial Imagery (B	· .	
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	
Field Observations:	No. 36 Specific (Specifical).	
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No Depth (inches): _6	Wetland Hydrology Present? Yes 🗶 No
Saturation Present? Yes X	No Depth (inches): 6	Wetland Hydrology Present? Tes No
(includes conillant frings)		
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if available:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if available:
(includes capillary fringe) Describe Recorded Data (stream gauge, m Remarks:	onitoring well, aerial photos, previous inspec	tions), if available:
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspec	tions), if available: