

# Wisconsin Department of Transportation

CTH KR - CTH H to Old Green Bay Rd

August 2018





## **Document Information**

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# 1 Introduction

Cardno was contracted by the Wisconsin Department of Transportation (WisDOT) to complete a wetland delineation and classification of wetland resources within the proposed County Highway (CTH) KR road corridor in Racine and Kenosha Counties, Wisconsin. The survey area is in addition to previously surveyed areas along CTH KR under WisDOT work order 3763-00-04 (see previous, independent wetland report). The new surveys include areas along CTH KR, CTH H, 72nd Ave, STH 31 & Old Green Bay Rd. The study limits comprise approximately 3.8 miles and vary in width up to approximately 300 feet. This project corridor and associated delineation boundary are depicted in Figures 1-5.

Based on field investigations conducted by Cardno on July 17<sup>th</sup>, 18<sup>th</sup>, and 25<sup>th</sup>, 2018 and desktop review of related resource maps, it is our professional opinion that twenty-five wetland complexes, totaling 5.20 acres (226,577 ft<sup>2</sup>), and two waterways are located within the project corridor.

This report has been compiled by the following staff that are trained and experienced in delineation methodologies and applicable regulations:

- Christopher Firkus Senior Project Scientist; Project Manager, Lead Wetland Delineator, Report Author: Chris has over five years of wetland delineation experience for long, linear projects across the Midwest from North Dakota to Michigan. He regularly supports field surveys, including wetland delineation, T&E species evaluations, and stormwater inspection, and provides project management, including client coordination, report and permit writing, budgeting, and agency interaction. He holds a Master's of Science in Environmental Science & Policy from the University of Wisconsin – Green Bay, is a Wisconsin Certified Endangered Resource Reviewer, and holds wetland and stormwater certifications in Minnesota and Michigan.
- Ken Carlson Staff Scientist; Lead Wetland Delineator: Ken has five years of experience in wetland restoration and ecology with Cardno and the past four years participating in wetland delineations and surveys. He holds a B.S. degree in Environmental Policy and Planning/Environmental Science from UW-Green Bay and has completed training including USACE and WDNR Advanced Wetland Delineation, NRCS Hydric Soils Identification, and NASECA erosion control inspection. Ken's experience includes wetland delineation, field surveys for threatened/endangered species and habitat, and environmental project management.
- Eric Englund Assistant Staff Scientist; Wetland Delineator, Report Author: Eric has over four years of experience working in the fields of natural resources and environmental compliance. He holds a Bachelor's of Science in Water Resources with a Minor in GIS and Spatial Analysis from the University of Wisconsin- Stevens Point. Currently, his job responsibilities include wetland delineations, conducting field surveys for T&E species and habitat, permitting, and environmental monitoring for a variety of utility projects.
- Alex Cohen Senior GIS Analyst, Geospatial Manager: Alex has over seven years of experience in natural resource ecology, including field work, GIS analysis, cartography, and modelling. He holds a Master of Science in Computational Ecology from Purdue University and a Bachelor of Science in Biology/Psychology from Calvin College. Currently, Alex is responsible for managing the Cardno WI/MN GIS team as well as Cardno's ArcGIS Online organization for the entire Midwest. Alex develops and maintains datasets and web maps for short-term and longterm multi-year projects, and is responsible for setting up GIS data collection files, turning raw field-collected data into project deliverables (including figures and tables), and managing pictures using custom scripts to format and name field-collected photos. Alex also develops custom geospatial tools to meet the many needs of clients.

• Madalyn Lupinek – Assistant Staff Scientist: Madalyn has several seasons of field experience and several years of GIS experience in both laboratory and field settings. She holds a B.S. degree in Environmental Sciences from UW-Madison where she completed cartography/GIS courses and a two-year undergraduate research project in soil science. Currently, Madalyn assists with wetland delineations, erosion control monitoring, field surveys for threatened and endangered species and habitat, as well as GIS tasks such as maintaining web maps for projects, setting up GIS data collection files, and processing field data into project figures.

# 2 Methods

Cardno conducted a field wetland determination and delineation on July 17, 18, and 27, 2018 to determine wetland boundaries within the project corridor. Prior to the field investigation, Cardno conducted a desktop review to determine the likelihood and potential location of wetlands and waterways. Sources reviewed include:

- United States Geological Survey (USGS) Topographical Map (Figure 2)
- USDA-NRCS Web Soil Survey Database for Racine and Kenosha Counties, Wisconsin (Figure 3)
- WDNR Wisconsin Wetland Inventory (WWI) Mapping (Figure 4)
- WDNR Surface Water Data Viewer

These maps show mapped wetland indicators, including hydrology and hydric soil units, within the project corridor. The sole use of any of these maps to make wetland determinations is not acceptable to the regulating agencies.

The delineation of wetlands and waterways was based on the methodology described in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region* Version 2.0 (Environmental Laboratory, 2010) as required by current policy.

#### 2.1 Survey Method

During site reconnaissance, Cardno walked the project corridor with the specific intent of determining wetland boundaries and collected data points within and near potential wetland areas to document soil characteristics, evidence of hydrology, and vegetation. Wetland ditch systems that were connected through culverted access drives and contained like communities were typically grouped with a representative pair of data points.

Cardno crews surveyed all data point locations and wetland boundaries using GPS technology. Data collection settings for the GPS units use available satellites, including two DGPS (Differential Global Positioning System) satellites, to capture location data. Cardno's GPS units acquire multiple readings per data point and use the Wide Area Augmentation System (WAAS) satellite readings to increase accuracy to sub-meter. While Cardno's GPS surveys provide reasonably spatial accuracy, they do not provide the same accuracy as a professional land survey.

#### 2.2 Naming Protocol

Feature naming for spatial data collected in field followed the following conventions:

- DP-xx = Data Point (may also include photos)
- PP-xx = Photo Point
- S-xx = Stream
- W-xx = Wetland

Feature naming resumed with numbering where the previous CTH KR surveys ended to ensure data integrity when cross referencing between survey efforts.

#### 2.3 Site Photographs

Representative site photographs were taken at wetland and upland sample point locations as well as for general documentation throughout the project corridor and are included in Appendix A. These photographs represent site conditions at the time of inspection within the project corridor.

#### 2.4 Delineation Data Sheets

The Midwest Region routine wetland delineation data sheets used in the wetland delineation process are located in Appendix B. These forms are the written documentation of how representative data point locations meet or do not meet each of the wetland criteria. Plant species nomenclature follows the 2016 National Wetland Plant List (Lichvar et al., 2016). Soils were identified using the methods outlined in the *USDA NRCS Field Indicators of Hydric Soils in the United States, Version 8.1* (USDA-NRCS 2017). Wetland community types are based on the WisDOT community classification guide (Appendix C).

#### 3 **Results and Discussion**

#### 3.1 **Desktop Review**

#### 3.1.1 **Recent Climatic Conditions and Precipitation Data**

Recent precipitation data was compared with historic precipitation data from a 29-year dataset (1971-2000) from a nearby weather station (Racine, WI) to determine if normal hydrologic and climatic conditions were present on-site during the delineation. When compared to the WETS Station data, the observed precipitation data from three months prior to the delineation indicated normal precipitation conditions at the time of the delineation. The month of July was prorated for half the month. The antecedent hydrologic condition analysis is provided below:

		Long-term	n rainfall recor	ds (1971-2000)					
WETS Station Racine, WI	Month	<30%	Mean	>30%	Actual	Condition	Condition Value	Month Weight Value	Condition Value X Month Weight
<b>3rd Prior Month</b>	May	1.92	3.23	3.92	6.61	Wet	3	1	3
2nd Prior Month	June	2.46	3.68	4.4	7.06	Wet	3	2	6
<b>1st Prior Month</b>	July	1.32	1.79	2.1	1.2	Dry	1	3	3
								Sum:	12
If sum is:					Condition V	/alues:	Conditio	ns Onsite:	Normal
6 to 9	then prior period has been drier than normal (1) Dry								
10 to 14	to 14 then prior period has been normal				(2) Normal				
15 to 18	8 then prior period has been wetter than normal				(3) Wet				

#### 3.1.2 Topography

The survey area for this project is discontinuous. A review of the USGS Topographical Map (Figure 2) for this project corridor shows rolling hills towards the western portion of the survey area, becoming increasingly irregular to the east. Wetland complexes are evident along much of the route, and the Pike River intersects the survey area in one of the southern portions.

#### 3.1.3 Soil Survey

The USDA-NRCS Web Soil Survey Maps (Figure 3) identified 17 soil types, three of which are considered hydric (water is unranked), within the survey boundaries. The WDNR Surface Water Data Viewer layer was also reviewed to further investigate the area. Areas where hydric soil indicators exist were given priority; however data points were collected in all areas as necessary despite existing hydric rating if wetland hydrological or topographical characteristics were present. A summary of mapped soil types and their hydric and wetland soil indicator status are outlined in Table 3-1 below.

Symbol	Map Unit Name	Hydric Rating	Acreage	Percent of Project Area
AtA	Ashkum silty clay loam, 0 to 2 percent slopes	Hydric	7.5	7.61%
Ac	Adrian muck	Hydric	1.34	1.36%
Am	Alluvial land	No	4.75	4.82%
AzB	Aztalan loam, 2 to 6 percent slopes	No	1.68	1.70%
BcA	Beecher silt loam, 1 to 3 percent slopes	No	0.88	0.89%

#### **Mapped Soil Units** Table 3-1

BIA	Blount silt loam, 1 to 3 percent slopes	No	2.47	2.51%
EtB	Elliott silty clay loam, 2 to 6 percent slopes	No	13.22	13.41%
MeB	Markham silt loam, 2 to 6 percent slopes	No	1.59	1.61%
MeB2	Markham silt loam, 2 to 6 percent slopes, eroded	No	4.77	4.84%
MzdB	Ozaukee silt loam, 2 to 6 percent slopes	No	16.8	17.04%
MzdB2	Ozaukee silt loam, 2 to 6 percent slopes, eroded	No	20.55	20.85%
MzdC	Ozaukee silt loam, 6 to 12 percent slopes	No	0.14	0.14%
MzdC2	Ozaukee silt loam, 6 to 12 percent slopes, eroded	No	1.21	1.23%
Na	Navan silt loam	Hydric	0.91	0.92%
SzB	Symerton loam, 2 to 6 percent slopes	No	3.24	3.29%
VaB	Varna silt loam, 2 to 6 percent slopes	No	17.49	17.74%
w	Water	Unranked	0.03	0.03%
Total			98.57	100.00%

#### 3.1.4 <u>Wisconsin Wetland Inventory</u>

The WWI (Figure 4) was reviewed to identify potential wetlands mapped within the boundaries of the project corridor. Areas where mapped wetland features exist were given priority; however data points were collected in all areas as necessary despite existing mapped wetland features if wetland hydrological, topographical, or vegetative characteristics were present. The WWI data identified the approximately 3.97 acres of wetlands outlined in the table below. A summary of mapped WWI wetlands is outlined in Table 3-2 below.

#### Table 3-2Mapped WWI Wetlands

Symbol	Wetland Type	Square Feet	Acreage	Percent of Project Area
T3/W0H	Forested, Open water, Broad-leaved deciduous, Subclass unknown, Standing water, Palustrine	6,098.40	0.14	3.53%
ТЗК	Forested, Broad-leaved deciduous, Wet soil, Palustrine	68,389.20	1.57	39.55%
E2K	Emergent/wet meadow, Narrow-leaved persistent, Wet soil, Palustrine	7,405.20	0.17	4.28%
S3/E1K	Scrub/shrub, Emergent/wet meadow, Broad- leaved deciduous, Persistent, Wet soil, Palustrine	50,529.60	1.16	29.22%
F0Kf	Flats/unvegetated wet soil, Subclass unknown, Wet soil, Palustrine	11,325.60	0.26	6.55%
S3/E2K	Scrub/shrub, Emergent/wet meadow, Broad- leaved deciduous, Narrow-leaved persistent, Wet soil, Palustrine	29,185.20	0.67	16.88%
Total		172,933	3.97	100.00%

#### 3.2 General Site Conditions

The project corridor is roadside and consists primarily of row crop agriculture with suburban and farm housing, becoming increasingly urban towards the east end of the project area. Upland areas are dominated by European grasses and agricultural ruderals.

#### 3.2.1 <u>Wetlands</u>

Based on this field investigation and desktop review of related resource maps, it is our professional opinion that twenty-five wetland complexes containing twenty-eight wetland communities totaling 5.20 acres and two waterways are located within the project corridor. These features are further described below

A total of twenty-eight wetland communities were identified within the project corridor (Figure 5) and were assigned community types according to WisDOT classification (Appendix C). The wetlands that were identified were generally located in lowland areas where water tends to collect and drain more slowly, such as in roadside ditches. Factors in determining wetland boundaries included topography of the landscape, dominant vegetation, soil, and hydrology observation. Documentation of these features, including wetland community type, associated data points, observed hydrology and hydric soil indictors, and dominant vegetation may be found in the wetland determination forms found in Appendix B, while general descriptions for observed wetland communities are found in Table 3-3 below.

#### 3.2.1.1 Wet Meadow

Approximately 3.18 acres (3.22% project area) of wet meadow community were identified and was the most abundant wetland type found. Dominant vegetation in the wet meadow community included spotted lady's-thumb (*Persicaria maculosa*), redroot amaranth (*Amaranthus retroflexus*), late goldenrod (*Solidago gigantea*), uptight sedge (*Carex stricta*), and hybrid cattail (*Typha X glauca*). In addition, non-dominant vegetation observed included large barnyard grass (*Echinochloa crus-galli*), reed canary grass (*Phalaris arundinacea*), swamp milkweed (*Asclepias incarnata*), European buckthorn (*Rhamnus cathartica*), and sandbar willow (*Salix interior*). The dominant soils across the wet meadow communities ranged from loam, to clay loam to clay. Indicators of hydric soils present included Depleted Matrix (F3), Redox Dark Surface (F6), Redox Depressions (F8), and Thick Dark Surface (A12). Hydrology indicators consisted of Geomorphic Position (D2), FAC Neutral Test (D5), High Water Table (A2), and Saturation (A3).

#### 3.2.1.2 Wooded Swamp

Approximately 1.67 acres (1.71% project area) of wooded swamp community were identified and was the second most abundant wetland type found. Vegetation in the wooded swamp community was dominated by black willow (*Salix nigra*), eastern cottonwood (*Populus deltoides*), and silver maple (*Acer saccharinum*) in the canopy layer. Shrub layer vegetation consisted of species such as European buckthorn (*Rhamnus cathartica*), and hairy-stem gooseberry (*Ribes hirtellum*). Herbaceous vegetation was often sparse or was similar to wet meadow vegetation. Dominant soils across the wooded swamps ranged from clay loam to clay. The most common hydric soils indicators for these areas were found to be Thick Dark Surface (A12) and Redox Dark Surface (F6). Hydrology indicators consisted of Geomorphic Position (D2), FAC Neutral Test (D5), High Water Table (A2), and Saturation (A3).

#### 3.2.1.3 Shrub Scrub

Approximately 0.24 acres (0.24% project area) of shrub scrub community were identified and was the third most abundant wetland type found. Dominant vegetation in the shrub scrub community included sandbar willow (*Salix interior*), gray dogwood (*Cornus racemosa*), and boxelder (*Acer negundo*). Dominant herbaceous vegetation consisted of late goldenrod (*Solidago gigantea*),

river-bank grape (*Vitis riparia*), and jewelweed (*Impatiens capensis*). In- addition, non-dominant vegetation observed included hairy-stem gooseberry (*Ribes hirtellum*), reed canary grass (*Phalaris arundinacea*), and indian-hemp (*Apocynum cannabinum*). Dominant soils across the shrub scrub community type ranged from silty clay loam to loam to clay loam. The most common hydric soil indicators observed in this community were Depleted Below Dark Surface (A11) and Depleted Matrix (F3). Hydrology indicators consisted of Geomorphic Position (D2) and FAC Neutral Test (D5).

#### 3.2.1.4 Shallow Marsh

Approximately 0.11 acres (0.11% project area) of shallow marsh community were identified and was the least abundant wetland type found. Dominant vegetation included hybrid cattail (*Typha* X *glauca*), with reed canary grass (*Phalaris arundinacea*) usually present. Dominant soils across the wooded swamps ranged from clay loam to clay. The most common hydric soil indicators observed in this community were Thick Dark Surface (A12) and Redox Dark Surface (F6). Hydrology indicators consisted of Geomorphic Position (D2), FAC Neutral Test (D5), High Water Table (A2), and Saturation (A3).

Wetland ID	Wetland Type	Square Feet	Acres
W-15	Wet Meadow (M)	196.02	0.00
W-16	Wooded Swamp (WS)	5,227.20	0.12
W-17	Wooded Swamp (WS)	13,503.60	0.31
W-18	Shrub Scrub (SS)	740.52	0.02
W-19	Wet Meadow (M)	522.72	0.01
W-20	Wet Meadow (M)	261.36	0.01
W-21	Shrub Scrub (SS)	9,583.20	0.22
W-22	Wooded Swamp (WS)	1,306.80	0.03
W-23	Wet Meadow (M)	14,810.40	0.34
W-24	Wet Meadow (M)	4,356.00	0.10
W-25	Wet Meadow (M)	5,227.20	0.12
W-26	Wet Meadow (M)	12,196.80	0.28
W-27	Wet Meadow (M)	8,712.00	0.20
W-28	Wet Meadow (M)	16,117.20	0.37
W-28	N-28 Shallow Marsh (SM)		0.08
W-28	Wooded Swamp (WS)	19,602.00	0.45
W-29	Wooded Swamp (WS)	9,147.60	0.21
W-30	Wet Meadow (M)	8,712.00	0.20
W-31	Wet Meadow (M)	5,227.20	0.12
W-32	Wet Meadow (M)	32,234.40	0.74
W-33	Wet Meadow (M)	10,454.40	0.24
W-34	Wet Meadow (M)	174.24	0.00
W-35	Wet Meadow (M)	1,524.60	0.04
W-36	Wooded Swamp (WS)	23,958.00	0.55
W-37	Wet Meadow (M)	2,395.80	0.06
W-38	Wet Meadow (M)	13,503.60	0.31
W-38	Shallow Marsh (SM)	1,393.92	0.03
W-39	Wet Meadow (M)	2,003.76	0.05
Total		226,577.34	5.20

#### Table 3-3 Delineated Wetland Summary Table

#### 3.2.2 <u>Naturally Problematic and Significantly Disturbed Wetlands</u>

Based on the guidance provided in Section 5, Difficult Wetland Situations in the Midwest Region, of the Regional Supplement to the USACE Delineation Manual: Midwest Region, Version 2.0, it was determined that several of the recorded wetland data points existed within significantly disturbed conditions. Details can be found in the wetland determination data forms in Appendix B and are also summarized in Table 3-4 below.

Data Point ID	Naturally Problematic?	Significantly Disturbed?	Remarks
DP-37	-	Soil	Sample was located in a roadside ditch in a residential area. A restrictive layer of gravel/rock from historic road fill activities was encountered at a depth of 5". Soils at this location are considered significantly disturbed due to the presence of road fill in the profile and shallow restrictive layer.
DP-44	-	Vegetation	Sample was located in a roadside ditch. Vegetation at this location is considered naturally problematic as the road right-of-way is actively managed and had been mowed recently.
DP-51	-	Soil	Sample was located in a roadside ditch in a residential area. A restrictive layer of riprap was installed within the ditch at the surface layer and soils could not be sampled. Soils at this location are considered significantly disturbed due to the presence of riprap fill.
DP-59	Soil	-	Sample point was located in a wooded swamp within a drainage way. Soils at this location are considered naturally problematic as seasonal sedimentation has prevented identification of hydric soil indicators.

#### Table 3-4 Naturally Problematic and Significantly Disturbed Data Point Summary

#### 3.3 Waterways

Three water features, an unnamed stream, the Pike River, and an unnamed pond, were documented during field surveys (Figure 5). The unnamed tributary (S-01) has an ordinary high water mark (OHWM) of 10ft and a depth of 0.5ft. The bank width is 20ft with a bank depth of 2ft. The substrate is gravel and the feature is a tributary to the Pike River. The Pike River (S-02) has an OHWM of 40ft with a depth of 3.5ft. The bank width was estimated at 50ft with a bank depth of 10ft. The substrate of the Pike River was documented as Mud/Silt and it is a tributary of Lake Michigan. The pond (O-01) is a shallow water feature with a small fringe of willows and reed canary grass. Photographs of waterway features are located in Appendix A.

#### 4 Summary and Conclusion

Cardno was contracted to perform a wetland delineation and classification of wetland resources along the County Highway KR road corridor in Racine and Kenosha Counties, Wisconsin and is in addition to previously surveyed areas along CTH KR under WisDOT work order 3763-00-04 (see previous, independent wetland report). The study limits comprise approximately 3.8 miles and vary in width up to approximately 300 feet. The entire project corridor is approximately 98.57 acres.

Based on field investigations conducted by Cardno on July 17<sup>th</sup> & 18<sup>th</sup> and 25<sup>th</sup>, 2018 and desktop review of related resource maps, it is our professional opinion that twenty-five wetland complexes totaling 5.20 acres (226,577 ft<sup>2</sup>) and two waterways exist within the project corridor.

This report represents our best professional judgment based on our knowledge and experience. The field wetland determination and delineation was conducted within the project corridor boundary provided to Cardno. The project corridor is described generally above and is depicted on all figures that accompany this report.

The wetlands identified for this report may be subject to federal regulation under the jurisdiction of the U.S. Army Corps of Engineers, state regulation under the jurisdiction of Wisconsin DNR, and local jurisdiction under the county, town, city or village.

#### 5 Literature Cited

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Location Map





Topographic Map





Mapped Soil Units



Date Created: 8/6/2018 Date Revised: 8/6/2018 File Path: R\Projectsi17/1177107001M00\_WisDOTMasterAgreement2018-2019/18\_CTH KR, CTH H to old Green Bay Road/GISIMXD/Delineation/Soils\_Map.mxd Data Sources: ESRI Imagery Basemap - Aerial Imagery; Hydrology - WDNR; Soil - NRCS; Roads - WisDOT GIS Analyst: madalyn.lupin





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GIS Analyst: madalyn.lupinek





Date Created: 8/8/2018 Date Revised: 8/8/2018 File Path: R:Projects1/71/177/177001M00\_WisDOTMasterAgreement2018-2019(18\_CTH KR, CTH H to old Green Bay Road/GISIMXDiDelineation)Soils\_Map.mxd Data Sources: ESRI Imagery Basemap - Aerial Imagery; Hydrology - WDNR; Soil - NRCS; Roads - WisDOT GIS Analyst: madalyn.lupinel



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# Figure

# Wisconsin Wetland Inventory (WWI)



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Project No. J177001M18

WWI Mapped Wetlands - Page 1 of 12 County Highway KR, County Highway H to Old Green Bay Road Wisconsin DOT Racine and Kenosha Counties, Wisconsin

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GIS Analyst: mada

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County Highway KR, County Highway H to Old Green Bay Road Wisconsin DOT Racine and Kenosha Counties, Wisconsin

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WWI Mapped Wetlands - Page 7 of 12 County Highway KR, County Highway H to Old Green Bay Road Wisconsin DOT

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Wisconsin DOT **Racine and Kenosha Counties, Wisconsin** 

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CTH KR - CTH H to Old Green Bay Rd

## Figure 5

## Wetland Delineation





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Date Created: 8/23/2018 Date Revised: 8/24/2018 File Path: R:\Projects\17/177/177001M00\_WisDOTMasterAgreement2018-2019\18\_CTH KR, CTH H to old Green Bay Road\GIS\MXD\Delineation\Delineation\_Map20180823.mxd Data Sources: ESRI Imagery Basemap - Aerial Imagery; Hydrology - WDNR; Soil - NRCS; Roads - WisDOT





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County Highway KR, County Highway H to Old Green Bay Road **Wisconsin DOT Racine and Kenosha Counties, Wisconsin** 

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CTH KR - CTH H to Old Green Bay Rd



Site Photographs



Photograph DP-30 - View North



Photograph DP-30 - View South





Photograph DP-31 - View East



Photograph DP-31 - View West





Photograph DP-32 - View East



Photograph DP-32 - View West





Photograph DP-33 - View North



Photograph DP-33 - View South





Photograph DP-34 - View North



Photograph DP-34 - View South





Photograph DP-35 - View East



Photograph DP-35 - View North





Photograph DP-35 - View South



Photograph DP-36 - View East





Photograph DP-36 - View North



Photograph DP-36 - View South





Photograph DP-37 - View South



Photograph DP-37 - View West





Photograph DP-38 - View East



Photograph DP-38 - View West





Photograph DP-39 - View Northeast



Photograph DP-39 - View Southeast





Photograph DP-40 - View Northeast



Photograph DP-40 - View Southwest





Photograph DP-41 - View Northeast



Photograph DP-41 - View Southwest




Photograph DP-42 - View Northeast



Photograph DP-42 - View Southwest





Photograph DP-43 - View East



Photograph DP-43 - View West





Photograph DP-44 - View North



Photograph DP-44 - View South





Photograph DP-45 - View North



Photograph DP-45 - View South





Photograph DP-46 - View North



Photograph DP-46 - View South





Photograph DP-47 - View North



Photograph DP-47 - View South





Photograph DP-48 - View North



Photograph DP-48 - View South





Photograph DP-49 - View North



Photograph DP-49 - View South





Photograph DP-50 - View North



Photograph DP-50 - View South





Photograph DP-51 - View North



Photograph DP-51 - View South





Photograph DP-52 - View North



Photograph DP-52 - View South





Photograph DP-53 - View North



Photograph DP-53 - View South





Photograph DP-54 - View North



Photograph DP-54 - View South





Photograph DP-55 - View North



Photograph DP-55 - View South





Photograph DP-56 - View North



Photograph DP-56 - View South





Photograph DP-57 - View North



Photograph DP-57 - View South





Photograph DP-58 - View North



Photograph DP-58 - View South





Photograph DP-59 - View North



Photograph DP-59 - View South





Photograph DP-60 - View North



Photograph DP-60 - View South





Photograph DP-61 - View East



Photograph DP-61 - View West





Photograph DP-62 - View North



Photograph DP-62 - View South





Photograph DP-63 - View North



Photograph DP-63 - View South





Photograph DP-64 - View North



Photograph DP-64 - View South





Photograph DP-65 - View East



Photograph DP-65 - View West





Photograph DP-66 - View East



Photograph DP-66 - View West





Photograph DP-67 - View East



Photograph DP-67 - View West





Photograph DP-68 - View East



Photograph DP-68 - View West





Photograph DP-69 - View North



Photograph DP-69 - View South





Photograph DP-70 - View North



Photograph DP-70 - View South





Photograph DP-71 - View East



Photograph DP-71 - View North





Photograph DP-71 - View South



Photograph DP-71 - View West







Photograph DP-72 - View North



Photograph DP-72 - View Southeast





Photograph DP-73 - View Southwest



Photograph DP-74 - View North





Photograph DP-74 - View South



Photograph DP-75 - View North





Photograph DP-75 - View South



Photograph DP-76 - View North





Photograph DP-76 - View South



Photograph DP-77 - View North

Site Photographs August 17, 18, 27, 2018




Photograph DP-77 - View South



Photograph DP-78 - View Northwest





Photograph DP-78 - View Southeast



Photograph DP-79 - View Northwest





Photograph DP-79 - View Southeast



Photograph DP-80 - View North





Photograph DP-80 - View South



Photograph DP-81 - View North





Photograph PP-43 - View East



Photograph PP-43 - View West





Photograph PP-44 - View East



Photograph PP-44 - View West





Photograph PP-45 - View East



Photograph PP-45 - View West





Photograph PP-46 - View East



Photograph PP-46 - View West





Photograph PP-47 - View East



Photograph PP-47 - View North





Photograph PP-47 - View South



Photograph PP-47 - View West





Photograph PP-48 - View Northwest



Photograph PP-48 - View Southwest





Photograph PP-49 - View East



Photograph PP-49 - View West





Photograph PP-50 - View East



Photograph PP-50 - View North





Photograph PP-50 - View South



Photograph PP-50 - View West





Photograph PP-51 - View East



Photograph PP-51 - View West





Photograph PP-52 - View East



Photograph PP-52 - View West





Photograph PP-53 - View Northeast



Photograph PP-54 - View Northwest





Photograph PP-55 - View Northeast



Photograph PP-55 - View Southwest





Photograph PP-56 - View Northeast



Photograph PP-56 - View Southwest





Photograph PP-57 - View Northeast



Photograph PP-58 - View Northeast





Photograph PP-58 - View Southwest



Photograph PP-59 - View North





Photograph PP-59 - View South



Photograph PP-60 - View North





Photograph PP-60 - View South



Photograph PP-61 - View North





Photograph PP-61 - View South



Photograph PP-62 - View Northeast





Photograph PP-62 - View Southwest



Photograph PP-63 - View Northeast





Photograph PP-63 - View Southwest



Photograph PP-64 - View Northeast





Photograph PP-64 - View Southwest



Photograph PP-65 - View West





Photograph PP-66 - View North



Photograph PP-66 - View South





Photograph PP-67 - View North



Photograph PP-67 - View South





Photograph PP-68 - View Southeast



Photograph PP-69 - View North





Photograph PP-69 - View South



Photograph PP-70 - View East





Photograph PP-70 - View North



Photograph PP-70 - View South





Photograph PP-70 - View West



Photograph PP-71 - View North





Photograph PP-71 - View South



Photograph PP-72 - View North





Photograph PP-72 - View South



Photograph PP-73 - View South





Photograph PP-74 - View North



Photograph PP-74 - View South




Photograph PP-75 - View North



Photograph PP-75 - View South





Photograph PP-76 - View North



Photograph PP-76 - View South





Photograph PP-77 - View North



Photograph PP-77 - View South





Photograph PP-78 - View North



Photograph PP-78 - View South





Photograph PP-79 - View North



Photograph PP-79 - View South





Photograph PP-80 - View North



Photograph PP-80 - View South





Photograph PP-81 - View North



Photograph PP-81 - View South





Photograph PP-82 - View North



Photograph PP-82 - View South





Photograph PP-83 - View North



Photograph PP-83 - View South





Photograph PP-84 - View North



Photograph PP-84 - View South





Photograph PP-85 - View Southwest



Photograph PP-86 - View North





Photograph PP-86 - View South



Photograph PP-87 - View Southwest





Photograph PP-88 - View East



Photograph PP-88 - View North





Photograph PP-88 - View South



Photograph PP-89 - View East





Photograph PP-89 - View North



Photograph PP-89 - View South





Photograph PP-89 - View West



Photograph PP-90 - View North





Photograph PP-90 - View South



Photograph PP-91 - View North





Photograph PP-91 - View South



Photograph PP-92 - View North





Photograph PP-92 - View South



Photograph PP-93 - View North





Photograph PP-93 - View South



Photograph PP-94 - View North





Photograph PP-94 - View South



Photograph PP-95 - View East





Photograph PP-95 - View West



Photograph PP-96 - View North





Photograph PP-96 - View South



Photograph PP-97 - View North





Photograph PP-97 - View South



Photograph PP-98 - View North





Photograph PP-98 - View South



Photograph PP-99 - View North





Photograph PP-99 - View South



Photograph PP-100 - View East





Photograph PP-100 - View West



Photograph PP-101 - View East





Photograph PP-101 - View West



Photograph PP-102 - View East





Photograph PP-102 - View West



Photograph PP-103 - View East





Photograph PP-103 - View West



Photograph PP-104 - View East





Photograph PP-104 - View West



Photograph PP-105 - View East





Photograph PP-105 - View West



Photograph PP-106 - View East





Photograph PP-106 - View West



Photograph PP-107 - View North





Photograph PP-107 - View South



Photograph PP-107 - View West





Photograph PP-108 - View East



Photograph PP-108 - View West





Photograph PP-109 - View East



Photograph PP-109 - View North




Photograph PP-109 - View South



Photograph PP-109 - View West





Photograph PP-110 - View East



Photograph PP-110 - View West





Photograph PP-111 - View East



Photograph PP-111 - View West





Photograph PP-112 - View Northeast



Photograph PP-112 - View Southwest





Photograph PP-113 - View East



Photograph PP-113 - View North





Photograph PP-113 - View South



Photograph PP-113 - View West





Photograph PP-114 - View North



Photograph PP-114 - View Southwest





Photograph PP-115 - View North



Photograph PP-115 - View South





Photograph PP-116 - View South



Photograph S-02 - View North





Photograph S-02 - View South



Photograph S-02 - View West





Photograph S-03 - View East



Photograph S-03 - View North





Photograph S-03 - View West

Project No. J177001M18



CTH KR - CTH H to Old Green Bay Rd

# APPENDIX

# Wetland Delineation Forms

Project/Site:	CTH KR, CTH H to Old Gre	en Bay Road				City/County	: Kenosha Count	у	5	Sampling Date: 7/	17/2018
Applicant/Owner:	Wisconisn Dept. of Transpo	ortation				State	e: WI	Sampling Point	:	DP-30	
Investigator(s):	K. Carlson, E. Englund						Section, Townshi	p, Range: TWP 2N,	RNG 22E, SEC	1	
Landform (hillslope	e, terrace, etc.):	Shoulder					Loc	al relief (concave, co	ivex, none): <u>co</u>	nvex	
Slope (%):	5%	Lat:	42.668165			Long:		87.85522		Datum: NAD83	UTM16N
Soil Map Unit Nam	e: AtA - Ashkum silty clay loar	n, 0 to 2 percent slop	es						NWI classifica	ation: None	
Are climatic / hydro	ologic conditions on the site ty	pical for this time of y	ear?			Yes	X No	(If no, explain	in Remarks.)		
Are Vegetation	N , Soil	N	, or Hydrology	Ν	significantly dis	sturbed?	Are "Norma	al Circumstances" pre	sent?	Yes X No	o
Are Vegetation	N , Soil	N	, or Hydrology	Ν	naturally proble	ematic?	(If needed,	explain any answers	in Remarks.)		
SUMMARY OF	FINDINGS Attach si	te map showing	sampling point lo	cations, tra	ansects, imp	portant featur	es, etc.				
Hydrophytic Ve	getation Present?		Yes x	N	o	Is the	e Sampled Are	ea			
Hydric Soil Pres	sent?		Yes	N	0 X	withi	n a Wetland?		Yes	No <u>x</u>	_
Wetland Hydrol	logy Present?		Yes	N	0 <u>        X</u>	_					
Remarks: WETS analysis del	termined that the antecedent p	precipitation condition	s were normal. The poin	t is in a riparia	an upland forest	t that slopes to a s	small perennial st	ream.			
VEGETATION	Use scientific names	of plants.			Abaaluta	Dominant	Indiantar				
Tree Stratum (Plot	t size: 30' radius)				Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet.		
1. Ulmus america					10%	Yes	FACW	Dominance rest	forkSheet.		
2.							·	Number of Domina	nt Species		
3.						_		That Are OBL, FAG	-	4	(A)
4.						_					
5.							·	Total Number of D	ominant		
					10%	= Total Cover		Species Across Al	Strata:	5	(B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)							Percent of Domina	nt Species		
1. Rhamnus cath	artica				15%	Yes	FAC	That Are OBL, FAG	W, or FAC:	80%	(A/B)
2. Viburnum opul	us				15%	Yes	FAC				
3.											
4							·	Prevalence Index	worksheet:		
5.							·	_			
					30%	= Total Cover		Total % C That Are OBL, FAC		Multiply	/ by: A/B
Herb Stratum (Plot	t size: 5' radius)							OBL species	W, UI FAC.	x1 =	A/B
1. Hemerocallis fu			_		100%	Yes	UPL	FACW species	25%		0.5
2. Toxicodendron					5%	No	FAC	FAC species	35%		1.05
3.							·	FACU species		x4 =	
4.						_		UPL species	100%	x5 =	5
5.							·	Column Totals:	1.60	(A) 6	6.55 (B)
6.							·				
7.							·	Prevale	nce Index = B/A	A = 4.09	÷
8.											
9.											
10						<u> </u>	<u>.</u>	Hydrophytic Veg	atation Indicate	ors:	
11							. <u> </u>				
12.									est for Hydroph		
13.									nce Test is >50		
14							·		nce Index is ≤3.		
15										ons <sup>1</sup> (Provide supp	Sorting
16										separate sheet) Vegetation <sup>1</sup> (Expl	loin)
17							· · <u>· · · · · · · · · · · · · · · · · </u>			vegetation (Expi	airij
18								<sup>1</sup> Indicators of hydri	c soil and wetla	nd hydrology mus	•+
19 20.					• •			be present, unless			ι
20.					105%	= Total Cover		be present, unless	distuibed of pro	Joiematic.	
					10578						
Woody Vine Stratu	m (Plot size: 30' radius)							Hydrophytic			
1. Vitis riparia	<u> </u>				15%	Yes	FACW	Vegetation			
2.							·	Present?	Yes	X No	
					15%	= Total Cover	·				
						_					
Remarks: (Include	photo numbers here or on a	separate sheet.)						*			

	ription: (Describe to the	edepth needeo			firm the ab	sence of in	dicators.)	
Depth	Matrix			edox Features	<b>-</b>	. 2		5
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16"	10YR 3/3	100			С	M	Silt Loam	
16-28"	10YR 3/2	95	7.5YR 3/3	5	С	М	Silty Clay Loam	
		·						
<sup>1</sup> Type: C=C	Concentration, D=Depletio	n, RM=Reduce	d Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil I		_			_	Test In	dicators of Hydric	Soils:
Histoso				red Matrix (S4)				nese Masses (F12)
	pipedon (A2)		Sandy Redo					w Dark Surface (F22)
	Histic (A3)		Stripped Ma				Other (Expl	ain in Remarks)
	jen Sulfide (A4)		Dark Surfac	( )				
	ed Layers (A5)			ky Mineral (F1)				
	luck (A10) ad Balaw Dark Surface (A	4.4.\		yed Matrix (F2)				
	ed Below Dark Surface (A Dark Surface (A12)	11)	Depleted Ma	surface (F6)			<sup>3</sup> The hydric soil in	dicators have been updated to
	Mucky Mineral (S1)			ark Surface (F6)	7)			e Field Indicators of Hydric Soils
	lucky Peat or Peat (S3)			ressions (F8)				States, Version 8.0, 2016.
				000101.0 (				
	_ayer (if observed):							
Type: Depth (i	inchae).					Hydric S	oil Present?	Yes No X
Remarks:								
HYDROL								
-	drology Indicators:	to describe						
-	cators (minimum of one is e Water (A1)	required: check		ned Leaves (B9	<u>)</u>			tors (minimum of two required) il Cracks (B6)
	. ,				))			
	/ater Table (A2) tion (A3)		Aquatic Fau	una (B13) ic Plants (B14)				atterns (B10) n Water Table (C2)
	Marks (B1)		·	Sulfide Odor (C1	1)		Crayfish Bu	( ),
	ent Deposits (B2)			nizospheres on		e (C3)		/isible on Aerial Imagery (C9)
	eposits (B3)			f Reduced Iron	-	5 (00)		Stressed Plants (D1)
	lat or Crust (B4)			Reduction in T		26)		c Position (D2)
	eposits (B5)			Surface (C7)		•	X FAC-Neutra	
Inundat	tion Visible on Aerial Imag	ery (B7)	Gauge or W	Vell Data (D9)				
Sparse	ly Vegetated Concave Su	rface (B8)	Other (Expla	ain in Remarks)	;)			
Field Observ	vations:				Т			
Surface Wate		Yes No	X Depth (inches	es): N/A				
Water Table		Yes No						
Saturation Pr	resent?	Yes No	X Depth (inches	es): >18"	Wetlan	nd Hydrolog	gy Present?	Yes NoX
(includes cap	oillary fringe)							
Describe Re	ecorded Data (stream gau	ge, monitoring	well, aerial photos, pre	vious inspectio	ns), if availa	ble:		
-								
Remarks: No wetland hy	ydrology was observed.							
NO Would and any	ulology was obeen rea.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	Sampling Date: 7	7/17/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point		DP-31		
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 3N, I				
Landform (hillslope,						al relief (concave, cor				
Slope (%):	1% Lat:	42.668379		Long:		37.854278	····, ····, <u>···</u>	Datum: NAD83	3 UTM16N	
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slope						NWI classifica			
-	logic conditions on the site typical for this time of			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology	N significantly dist			al Circumstances" pre				
Are Vegetation	N , Soil N	, or Hydrology	N naturally proble			explain any answers		Yes X N		•
-	· · ·					explain any answers	in itemaixs.)			
	FINDINGS Attach site map showing									
Hydropnytic Veo Hydric Soil Pres	getation Present?	Yes x	No	-	Sampled Are	ea	Vee v	No		
Wetland Hydrol		Yes <u>x</u> Yes x	No No	- within			Yes <u>x</u>	No	_	
-				-						
Remarks: WETS analysis det	ermined that the antecedent precipitation conditio	ns were normal. The point	is in a roadside ditch.							
VEGETATION	Use scientific names of plants.									
			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	vorksheet:			
1				<u></u>						
2				<u></u>		Number of Dominar				
3						That Are OBL, FAC	W, or FAC:	4	(A)	
4.				·						
5						Total Number of Do			-	
				= Total Cover		Species Across All	Strata:	4	(B)	
Conling/Chruh Ctrot	tum (Plot size: 15' radius)					Devent of Develop				
		<u> </u>	50/	Vee	FACW	Percent of Dominar That Are OBL, FAC		100%	(A/D)	、 、
<ol> <li>Salix interior</li> <li>2.</li> </ol>			5%	Yes	FACW	That Are OBL, FAC	W, OF FAC.	100%	(A/B)	,
3.										
4.			,	<u></u>		Prevalence Index	vorkeheet.			
5.			·	·		i revalence maex i	for Roneet.			
0.			5%	= Total Cover		Total % Co	over of	Multip	lv hv	
			070	- 10101 00101		That Are OBL, FAC			A/B	•
Herb Stratum (Plot	size: 5' radius)					OBL species	10%	x1 =	0.1	-
1. Salix interior		_	20%	Yes	FACW	FACW species	40%	x2 =	0.8	•
2. Carex scoparia	1		15%	Yes	FACW	FAC species		x3 =		
3. Typha X glauca	a		10%	Yes	OBL	FACU species		x4 =		
4.						UPL species		x5 =		•
5.						Column Totals:	0.50	(A)	0.9	(B)
6.										
7.						Prevale	nce Index = B/A	A =1.8	30	_
8.				<u>.</u>						
9										
10.						Hydrophytic Vege	tation Indicate	ors:		
11.										
12.						X 1-Rapid Te	est for Hydroph	ytic Vegetation		
13.						X 2-Dominar				
14						X 3-Prevaler				
15				<u></u>			-	ons <sup>1</sup> (Provide sup		
16				·				separate sheet)		
17				·		Problema	ic Hydrophytic	Vegetation <sup>1</sup> (Exp	blain)	
18				·		1				
19						<sup>1</sup> Indicators of hydric			st	
20						be present, unless	disturbed or pro	oblematic.		
			45%	= Total Cover						
	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2				T-4 1 0		Present?	Yes	X No		
				= Total Cover						
	photo numbers here or on a separate sheet.) ad vegetation covers the ground.									

	ription: (Describe to th	e depth neede			firm the ab	sence of in	ndicators.)	
Depth	Matrix			dox Features	- 1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6"	10YR 3/2	95	7.5YR 4/6	5	С	M	Clay	
6-20"	2.5YR 7/1	60	10YR 6/6	40	С	M	Clay	
<sup>1</sup> Type: C=C	Concentration, D=Depletion	on, RM=Reduce	d Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=M	atrix.
Hydric Soil I	ndicators <sup>3</sup> :					Test Ir	ndicators of Hydric So	ils:
Histoso	ol (A1)		Sandy Gleye	d Matrix (S4)			Iron-Mangane	se Masses (F12)
Histic E	pipedon (A2)		Sandy Redo	x (S5)			Very Shallow	Dark Surface (F22)
Black H	listic (A3)		Stripped Ma	rix (S6)			Other (Explain	n in Remarks)
Hydrog	en Sulfide (A4)		Dark Surface	e (S7)				
Stratifie	ed Layers (A5)		Loamy Muck	y Mineral (F1)	)			
2 cm M	luck (A10)			ed Matrix (F2)				
X Deplete	ed Below Dark Surface (A	A11)	X Depleted Ma	. ,				
	ark Surface (A12)		X Redox Dark	. ,			<sup>3</sup> The hydric soil indic	ators have been updated to
	Mucky Mineral (S1)		·	rk Surface (F	7)		comply with the	Field Indicators of Hydric Soils
5 cm M	lucky Peat or Peat (S3)		X Redox Depr	essions (F8)			in the United Sta	ntes, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре:								
Depth (i	nches):					Hydric \$	Soil Present?	Yes <u>X</u> No
HYDROL Wetland Hyd	OGY drology Indicators:							
Primary Indic	cators (minimum of one is	s required: chec	k all that apply)				Secondary Indicator	s (minimum of two required)
Surface	e Water (A1)		Water-Stain	ed Leaves (BS	9)		Surface Soil 0	Cracks (B6)
High W	ater Table (A2)		Aquatic Fau	na (B13)			Drainage Pat	erns (B10)
Saturat	ion (A3)		True Aquatio	Plants (B14)			Dry-Season V	Vater Table (C2)
	Marks (B1)			ulfide Odor (C	-		Crayfish Burro	· · ·
	ent Deposits (B2)			zospheres on	0	s (C3)		sible on Aerial Imagery (C9)
	eposits (B3)			Reduced Iron				ressed Plants (D1)
	lat or Crust (B4)			Reduction in T	Tilled Soils (	C6)	X Geomorphic I	
	posits (B5)		Thin Muck S	. ,			X FAC-Neutral	Test (D5)
	ion Visible on Aerial Imag		Gauge or W		`			
Sparse	ly Vegetated Concave S	urface (B8)	Other (Expla	in in Remarks	5)			
Field Observ	vations:							
Surface Wat	er Present?	Yes No		s): N/A				
Water Table		Yes No	X Depth (inches	-				
Saturation P		Yes No	X Depth (inches	5): >18"	Wetlar	nd Hydrolo	gy Present?	Yes <u>X</u> No
(includes cap								
Describe Re	corded Data (stream ga	uge, monitoring	well, aerial photos, prev	rious inspectio	ons), if availa	able:		
Remarks:								
	ppears to hold surface w	ater during a po	rtion of the growing sea	son.				
		-	-					

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	ampling D	ate: 7/17/20	18
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point			-32	
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N,				
Landform (hillslope,						al relief (concave, cor				
Slope (%):	5% Lat:	42.668389		Long:		37.854304			AD83 UTM	16N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slop						NWI classifica		lone	
	logic conditions on the site typical for this time of			Yes	X No	(If no, explain i		<u> </u>		
Are Vegetation	N , Soil N	, or Hydrology	N significantly dis	-		al Circumstances" pre	-	Voc	Y No	
Are Vegetation	N , Soil N	, or Hydrology	N naturally proble			explain any answers		163	X_No	
-						explain any answers	in Remarks.)			
	FINDINGS Attach site map showin	• • • •								
	getation Present?	Yes <u>x</u>	No	-	Sampled Are	ea	Vee	No	V	
Hydric Soil Pres Wetland Hydrold		Yes Yes	No <u>x</u> No x		n a Wetland?		Yes	_ NO_	Х	
		100		_						
Remarks: WETS analysis det	ermined that the antecedent precipitation conditi	ons were normal. The point	s on the edge of a woodlot	between subdivisi	ons.					
VEGETATION	Use scientific names of plants.					1				
Tree Streture (Diet	eizer 20' rediue)		Absolute	Dominant	Indicator					
Tree Stratum (Plot			% Cover	Species?	Status	Dominance Test	vorksheet:			
1. Ulmus americar	na		30%	Yes	FACW	Number of Demine				
<ol> <li>Juglans nigra</li> <li>Quercus alba</li> </ol>			<u></u>	Yes No	FACU	Number of Dominal			3	(4)
			10%	No	FACU	That Are OBL, FAC	W, OF FAC.		3	(A)
<ol> <li>Tilia Americana</li> <li>5.</li> </ol>			10%	110	FACU	Total Number of Do	minont			
J			80%	= Total Cover		Species Across All			5	(B)
			0078			Opecies Across Air	Ollala.		5	(D)
Sanling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	nt Species			
1. Rhamnus catha			20%	Yes	FAC	That Are OBL, FAC		ŕ	60%	(A/B)
2.						mat no obe, i ne			0,0	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
3.										
4.						Prevalence Index	worksheet:			
5.										
			20%	= Total Cover		Total % C	over of:	,	Multiply by:	
				-		That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot	size: 5' radius)					OBL species		x1 =		
1. Gaultheria proc	umbens		20%	Yes	FACU	FACW species	30%	x2 =	0.6	
2. Poa pratensis			15%	Yes	FAC	FAC species	37%	x3 =	1.11	
3. Rosa multiflora			10%	No	FACU	FACU species	85%	x4 =	3.4	
4. Leucanthemum	vulgare		5%	No	UPL	UPL species	7%	x5 =	0.35	
5. Fragaria virginia	ana		5%	No	FACU	Column Totals:	1.59	(A)	5.46	(B)
6. Daucus carota			2%	No	UPL					
7. Rhamnus catha	artica		2%	No	FAC	Prevale	nce Index = B/A	· =	3.43	
8.										
9										
10						Hydrophytic Vege	tation Indicate	ors:		
11										
12.						1-Rapid T	est for Hydroph	ytic Vegeta	tion	
13.							nce Test is >50			
14.							ice Index is ≤3.			
15							ogical Adaptatio			9
16							emarks or on a			
17						Problema	tic Hydrophytic	Vegetation	' (Explain)	
18						1				
19						<sup>1</sup> Indicators of hydrid			jy must	
20						be present, unless	disturbed or pro	blematic.		
			59%	= Total Cover						
	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes	<u> </u>		
				= Total Cover						
Remarks: (Include The canopy is dens	photo numbers here or on a separate sheet.)									

Profile Desci Depth	Matrix		Red	dox Features			_		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-16"	10YR 5/4	100			С	М	Silty Clay Loam		
16-24"	10YR 5/4	98	10YR 6/8	2	С	М	Clay Loam		
				·					
				·					
				·					
				·			·		
	opcentration D-Depletion	n RM-Redu	ced Matrix, CS=Covered c	or Coated San	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix	
Hydric Soil I		1, 1111–116000			la Orains.		ndicators of Hydric		
Histoso			Sandy Gleye	d Matrix (S4)			-	nese Masses (F12)	
	pipedon (A2)		Sandy Redox					w Dark Surface (F22	)
Black H	listic (A3)		Stripped Mat					ain in Remarks)	
Hydrog	en Sulfide (A4)		Dark Surface	e (S7)					
Stratifie	d Layers (A5)		Loamy Muck	y Mineral (F1)					
2 cm M	uck (A10)		Loamy Gleye	ed Matrix (F2)					
Deplete	d Below Dark Surface (A	11)	Depleted Mat	trix (F3)					
Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been u	pdated to
	Mucky Mineral (S1)		Depleted Dar	rk Surface (F7	7)			e Field Indicators of	
5 cm M	ucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	States, Version 8.0, 2	2016.
Restrictive L	ayer (if observed):								
Type:									
Depth (ii Remarks: No hydric soils	nches):	d.	-			Hydric S	Soil Present?	Yes	NoX
Remarks: No hydric soils	indicators were observed	d.				Hydric S	Soil Present?	Yes	NoX
Remarks: No hydric soils HYDROL	s indicators were observed	d.				Hydric S	Soil Present?	Yes	NoX
Remarks: No hydric soils HYDROL( Wetland Hyd	s indicators were observed DGY Irology Indicators:					Hydric S			
Remarks: No hydric soils HYDROL Wetland Hyd Primary Indic	s indicators were observed			d Leaves (B9	)	Hydric S	Secondary Indica	Yes tors (minimum of two il Cracks (B6)	
Remarks: No hydric soils HYDROL( Wetland Hyd Primary Indic Surface	s indicators were observed DGY Irology Indicators: ators (minimum of one is			•	)	Hydric S	Secondary Indica Surface So	tors (minimum of two	
Remarks: No hydric soils HYDROL( Wetland Hyd Primary Indic Surface	orgy DGY Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2)		Water-Staine	a (B13)	)	Hydric S	Secondary Indica Surface So Drainage P	tors (minimum of two il Cracks (B6)	
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati	orgy DGY Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2)		Water-Staine Aquatic Faun True Aquatic	a (B13)		Hydric S	Secondary Indica Surface So Drainage P	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2)	
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M	DGY Tology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14)	1)		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W Saturati Water M Sedime	DGY Tology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C1	) Living Root		Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V	tors (minimum of two il Cracks (B6) atterns (B10) 1 Water Table (C2) rrows (C8)	required)
Remarks: No hydric soils HYDROL( Wetland Hyd Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M	on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14) Ifide Odor (C1 zospheres on Reduced Iron Reduction in Ti	I) Living Root (C4)	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROL( Wetland Hyd Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M	DGY Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of	a (B13) Plants (B14) Ifide Odor (C1 zospheres on Reduced Iron Reduction in Ti	I) Living Root (C4)	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M: Iron De Inundati	DGY Trology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Iffide Odor (C1 zospheres on l Reduced Iron Reduction in Tri urface (C7) ell Data (D9)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M: Iron De Inundati	DGY rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (C1 zospheres on Reduced Iron Reduced Iron Reduction in Ti urface (C7)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M: Iron De Inundati	DGY Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Iffide Odor (C1 zospheres on l Reduced Iron Reduction in Tri urface (C7) ell Data (D9)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M: Iron De Inundati Sparsel	DGY rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations:	required: che ery (B7) rface (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Iffide Odor (C1 zospheres on l Reduced Iron Reduction in Tri urface (C7) ell Data (D9) n in Remarks)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W Saturati Water M Sedime Drift De Algal M Iron De Inundati Sparsel Field Observ	S indicators were observed DGY Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations: er Present?	required: che ery (B7) rface (B8) Yes No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (C1 zospheres on l Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) ): <u>N/A</u>	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M: Iron De Inundati Sparsel Field Observ Surface Wate	DGY Trology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations: er Present?	required: che ery (B7) rface (B8) Yes No Yes No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (C1 zospheres on l Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) ): N/A ): N/A	) Living Root (C4) illed Soils ((	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or Geomorphi	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2)	required)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M. Iron De Inundati Sparsel Field Observ Surface Wate Saturation Pr (includes cap	DGY Trology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations: er Present? Present? illary fringe)	required: che ery (B7) rface (B8) Yes No Yes No Yes No	Water-Staine     Aquatic Faun     True Aquatic     Hydrogen Su     Oxidized Rhiz     Presence of     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     X     Depth (inches)     X     Depth (inches)     X	a (B13) Plants (B14) Iffide Odor (C1 zospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	required) Jery (C9)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M. Iron De Inundati Sparsel Field Observ Surface Wate Saturation Pr (includes cap	DGY Trology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations: er Present? Present? illary fringe)	required: che ery (B7) rface (B8) Yes No Yes No Yes No	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (C1 zospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	required) Jery (C9)
Remarks: No hydric soils HYDROLO Wetland Hyd Primary Indic Surface High W. Saturati Water M Sedime Drift De Algal M. Iron De Inundati Sparsel Field Observ Surface Wate Saturation Pr (includes cap	DGY Trology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations: er Present? Present? illary fringe)	required: che ery (B7) rface (B8) Yes No Yes No Yes No	Water-Staine     Aquatic Faun     True Aquatic     Hydrogen Su     Oxidized Rhiz     Presence of     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     X     Depth (inches)     X     Depth (inches)     X	a (B13) Plants (B14) Iffide Odor (C1 zospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	required) Jery (C9)
Remarks: No hydric soils No hydric soils Wetland Hyd Primary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundati Sparsel Field Observ Surface Wate Saturation Pr (includes cap Describe Red	DGY Trology Indicators: ators (minimum of one is Water (A1) ater Table (A2) ion (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Sur ations: er Present? Present? illary fringe)	required: che ery (B7) rface (B8) Yes No Yes No Yes No	Water-Staine     Aquatic Faun     True Aquatic     Hydrogen Su     Oxidized Rhiz     Presence of     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     X     Depth (inches)     X     Depth (inches)     X	a (B13) Plants (B14) Iffide Odor (C1 zospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indica Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	tors (minimum of two il Cracks (B6) atterns (B10) n Water Table (C2) rrows (C8) /isible on Aerial Imag Stressed Plants (D1) c Position (D2) al Test (D5)	required) Jery (C9)
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Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County	: Racine County		S	ampling Da	ate: 7/17/20	018
Applicant/Owner:	Wisconisn Dept. of Transportation				State		Sampling Point			-33	
Investigator(s):	K. Carlson, E. Englund						ip, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, cor				
Slope (%):	1% Lat:	42.668545			Long:		37.855373			IAD83 UTM	116N
	e: MzdC - Ozaukee silt loam, 6 to 12 percent slope							NWI classifica		3/W0H	
	logic conditions on the site typical for this time of				Vec	X No	(If no, explain i	-		5/11/011	
			N significa	فمناميطنم	-		al Circumstances" pre		Vee	V No	
Are Vegetation	<u> </u>	, or Hydrology	N naturally				explain any answers		165	X_No	—
Are Vegetation		, or Hydrology					explain any answers	III Kelliaiks.)			
	FINDINGS Attach site map showing			s, imp							
	getation Present?	Yes x	No		-	Sampled Are	ea	Mar M	N		
Hydric Soil Pres		Yes X	No		within	n a Wetland?		Yes x	No		
Wetland Hydrolo	bgy Flesent?	Yes <u>x</u>	No		-						
Remarks: WETS analysis det	ermined that the antecedent precipitation conditio	ns were normal. The featu	ure is a wooded swam	o followi	ng a small, peren	nial stream throu	igh a woodlot surroun	ded by subdivis	ions.		
VEGETATION ·	Use scientific names of plants.										
Tes a Obrahum (Diat				olute	Dominant	Indicator					
Tree Stratum (Plot				over	Species?	Status	Dominance Test	vorksheet:			
1. Ulmus americai				0%	Yes	FACW	Number of Demine				
2. Acer saccharing	um		3	0%	Yes	FACW	Number of Dominal	-		-	(4)
3							That Are OBL, FAC	W, of FAC:		5	(A)
4			·				Tatal Number of D				
5				0%	= Total Cover		Total Number of Do Species Across All			F	(P)
			0	J 76			Species Across Air	Strata.		5	(B)
Sanling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Dominar	t Species			
1. Rhamnus catha			F	%	Yes	FAC	That Are OBL, FAC	-	1(	00%	(A/B)
2. Fraxinus penns				%	Yes	FACW	marrie obe, rrie	, or 1710.		1070	-(/////
3. Lonicera tataric				%	No	FACU					
4.				,,,			Prevalence Index	vorksheet:			
5.			·								
			1	2%	= Total Cover		Total % C	over of:	Ν	Aultiply by:	
					-		That Are OBL, FAC				A/B
Herb Stratum (Plot	size: 5' radius)						OBL species	60%	x1 =	0.6	
1. Cicuta maculata	a	_	6	0%	Yes	OBL	FACW species	75%	x2 =	1.5	
2. Impatiens cape	nsis		1	0%	No	FACW	FAC species	7%	x3 =	0.21	
3. Toxicodendron	rydbergii		2	%	No	FAC	FACU species	2%	x4 =	0.08	
4.							UPL species		x5 =		
5.							Column Totals:	1.44	(A)	2.39	(B)
6.											
7.							Prevale	nce Index = B/A	٠ = <u> </u>	1.66	
8.											
9.											
10.							Hydrophytic Vege	tation Indicate	ors:		
11.											
12.							1-Rapid T	est for Hydroph	ytic Vegeta	tion	
13.								nce Test is >50			
14								ce Index is ≤3.			
15.							4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provid	e supportin	ıg
16.								emarks or on a	•	,	
17							Problema	ic Hydrophytic	Vegetation	(Explain)	
18											
19.							<sup>1</sup> Indicators of hydric	soil and wetla	nd hydrolog	y must	
20.							be present, unless	disturbed or pro	oblematic.		
			7	2%	= Total Cover						
	m (Plot size: 30' radius)						Hydrophytic				
1					·		Vegetation				
2							Present?	Yes	× No_		
					= Total Cover						
Remarks: (Include The herbaceous ve	photo numbers here or on a separate sheet.) getation is tall.										

Depth	Matrix		Ree	dox Features			_	
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6"	10YR 2/1	100			С	М	Loam	
6-24"	10YR 2/1	100			С	М	Clay Loam	
24-30"	10YR 4/1	90	7.5YR 4/6	10	С	M	Clay	
2.00								
				·				
						·		
						2		
	oncentration, D=Depletion	, RM=Reduc	ced Matrix, CS=Covered o	or Coated San	d Grains.		PL=Pore Lining, M=I	
Histoso	ndicators <sup>3</sup> :		Sandy Gleye	d Matrix (S4)		restin	ndicators of Hydric S	nese Masses (F12)
	pipedon (A2)		Sandy Gleye					w Dark Surface (F22)
	listic (A3)		Stripped Mat					ain in Remarks)
	en Sulfide (A4)		Dark Surface					
	d Layers (A5)			y Mineral (F1)				
	uck (A10)		Loamy Gleye					
	ed Below Dark Surface (A1	1)	Depleted Ma					
	ark Surface (A12)		Redox Dark				<sup>3</sup> The hydric soil inc	licators have been updated to
Sandy M	Mucky Mineral (S1)		Depleted Da	k Surface (F7	7)		comply with the	e Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Depre	ssions (F8)			in the United S	tates, Version 8.0, 2016.
strictive L	ayer (if observed):							
Type:								
JT -								
	nches):	ed under a da	ark surface.			Hydric \$	Soil Present?	Yes <u>X</u> No
marks: lepleted lay	ver with redox was observe	ed under a da	ark surface.			Hydric S	Soil Present?	Yes <u>X</u> No
marks: lepleted lay YDROL( etland Hyd	ver with redox was observe OGY Irology Indicators:					Hydric S		
marks: epleted lay (DROL) etland Hyd imary Indic	ver with redox was observe OGY frology Indicators: ators (minimum of one is r		eck all that apply)	d Leaves (B9	)	Hydric S	Secondary Indicat	ors (minimum of two required)
marks: epleted lay (DROL( etland Hyd imary Indic Surface	Per with redox was observe OGY Irology Indicators: eators (minimum of one is r Water (A1)		eck all that apply) Water-Staine	d Leaves (B9	)	Hydric S	Secondary Indicat	ors (minimum of two required) I Cracks (B6)
marks: epleted lay (DROLO etland Hyd imary Indic Surface High W	OGY Irology Indicators: Water (A1) ater Table (A2)		eck all that apply) Water-Staine Aquatic Faur	a (B13)	)	Hydric S	Secondary Indicat Surface Soi Drainage Pa	ors (minimum of two required)
Marks: epleted lay YDROLO etland Hyd imary Indic Surface High W. Saturati	Per with redox was observe OGY Prology Indicators: Pators (minimum of one is r Water (A1) ater Table (A2) ion (A3)		eck all that apply) Water-Staine Aquatic Faur True Aquatic	a (B13) Plants (B14)		Hydric S	Secondary Indicat Surface Soi Drainage Pa Dry-Season	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
marks: epleted lay YDROLO etland Hyd imary Indic Surface High W. Saturati Water M	Per with redox was observe OGY frology Indicators: ators (minimum of one is r water (A1) ater Table (A2) ion (A3) Warks (B1)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su	a (B13)	1)		Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
marks: lepleted lay YDROLO etland Hyd rimary Indic Surface High W Saturati Water N Sedime	Per with redox was observe OGY Prology Indicators: Pators (minimum of one is r Water (A1) ater Table (A2) ion (A3)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	a (B13) Plants (B14) Ifide Odor (C1	) Living Root		Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)
Marks: epleted lay (DROLO etland Hyd imary Indic Surface High W Saturati Water N Saturati Urift De	Per with redox was observe OGY Prology Indicators: ators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) ent Deposits (B2)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	a (B13) Plants (B14) lfide Odor (C1 cospheres on l	I) Living Root (C4)	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9)
marks: lepleted lay YDROL( etland Hyd imary Indic Surface High W Saturati Water N Sedime Drift De Algal M	Per with redox was observe OGY Irology Indicators: eators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) what Deposits (B2) upposits (B3)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	a (B13) Plants (B14) lfide Odor (C1 cospheres on Reduced Iron Reduction in Ti	I) Living Root (C4)	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bu Saturation V Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
Marks: lepleted lay YDROLO etland Hyd imary Indic Surface High W. Saturati Water N Sedime Drift De Algal M: Iron De	Per with redox was observe OGY Irology Indicators: sators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Marks (B1) wint Deposits (B2) sposits (B3) at or Crust (B4)	required: che	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14) lfide Odor (C1 cospheres on Reduced Iron Reduced Iron Reduction in Tri urface (C7)	I) Living Root (C4)	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
Marks: lepleted lay YDROLO etland Hyd imary Indic Surface High W. Saturati Water N Sedime Drift De Algal M: Iron Dej Inundati	Per with redox was observe OGY Irology Indicators: ators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) iposits (B3) at or Crust (B4) posits (B5)	required: che	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi: Presence of Recent Iron F Gauge or We	a (B13) Plants (B14) lfide Odor (C1 cospheres on Reduced Iron Reduced Iron Reduction in Tri urface (C7)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
Marks: lepleted lay YDROLO etland Hyd imary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundati Sparsel	Per with redox was observe OGY frology Indicators: eators (minimum of one is r e Water (A1) ater Table (A2) ion (A3) Marks (B1) mt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur	required: che	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi: Presence of Recent Iron F Gauge or We	a (B13) Plants (B14) Ifide Odor (C1 cospheres on Reduced Iron Reduced Iron Reduction in Tri urface (C7) ell Data (D9)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
Marks: lepleted lay YDROLO etland Hyd imary Indic Surface High W. Saturati Water N Sedime Drift De Algal M. Iron De Inundati Sparsel	Per with redox was observe OGY Irology Indicators: ators (minimum of one is r ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations:	required: che ery (B7) face (B8)	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhit Presence of Recent Iron F Thin Muck St Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Tri urface (C7) ell Data (D9) n in Remarks)	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
Marks: lepleted lay <b>YDROLO</b> etland Hyd imary Indic Surface High W. Saturati Water N Sedime Drift De Drift De Iron De Inundati Sparsel eld Observ urface Wate	Per with redox was observe OGY Irology Indicators: ators (minimum of one is r ater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Y	required: che ery (B7) face (B8)	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhit Presence of Recent Iron F Thin Muck St Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (C1 zospheres on l Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) ): <u>N/A</u>	I) Living Root (C4) illed Soils ((	s (C3)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
Marks: epleted lay <b>YDROLO</b> etland Hyd imary Indic Surface High W. Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Sparsel eld Observ arface Wate ater Table	Per with redox was observe OGY frology Indicators: ators (minimum of one is r ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) at or Crust (B4) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Y	required: che ery (B7) face (B8) 'es No 'es No	eck all that apply)         Water-Staine         Aquatic Faur         True Aquatic         Hydrogen Su         Oxidized Rhi:         Presence of         Recent Iron F         Thin Muck Si         Gauge or Wa         Other (Explain         X       Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on l Reduced Iron Reduction in Tri urface (C7) ell Data (D9) n in Remarks) ): N/A ): >18"	) Living Root (C4) illed Soils ((	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2)
marks: Jepleted lay etland Hyd rimary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundati Sparsel eld Observ urface Wate rater Table aturation Pr	Per with redox was observe OGY frology Indicators: ators (minimum of one is r ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) at or Crust (B4) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Y	required: che ery (B7) face (B8) 'es No 'es No	eck all that apply)         Water-Staine         Aquatic Faur         True Aquatic         Hydrogen Su         Oxidized Rhi         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inchess         X       Depth (inchess	a (B13) Plants (B14) Ifide Odor (C1 cospheres on l Reduced Iron Reduction in Tri urface (C7) ell Data (D9) n in Remarks) ): N/A ): >18"	) Living Root (C4) illed Soils ((	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bui Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Partial and a second s	Per with redox was observed Prology Indicators: ators (minimum of one is r ators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) Proposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur Present? Y resent? Y	required: che ery (B7) face (B8) /es No /es No /es No	Ack all that apply)         Water-Staine         Aquatic Faur         True Aquatic         Hydrogen Su         Oxidized Rhi:         Presence of         Recent Iron F         Thin Muck Su         Gauge or Wa         Other (Explain         X       Depth (inches)         X       Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bui Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
marks: Jepleted lay etland Hyd rimary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundati Sparsel eld Observ urface Wate fater Table aturation Pr ncludes cap	Per with redox was observed Prology Indicators: Pators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) Proposits (B2) Proposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur Present? Present? Y Present? Y Pillary fringe)	required: che ery (B7) face (B8) /es No /es No /es No	Ack all that apply)         Water-Staine         Aquatic Faur         True Aquatic         Hydrogen Su         Oxidized Rhi:         Presence of         Recent Iron F         Thin Muck Su         Gauge or Wa         Other (Explain         X       Depth (inches)         X       Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bui Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
marks: Jepleted lay etland Hyd rimary Indic Surface High W Saturati Water N Sedime Drift De Algal M Iron De Inundati Sparsel eld Observ urface Wate fater Table aturation Pr ncludes cap	Per with redox was observed Prology Indicators: Pators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) Proposits (B2) Proposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur Present? Present? Y Present? Y Pillary fringe)	required: che ery (B7) face (B8) /es No /es No /es No	Ack all that apply)         Water-Staine         Aquatic Faur         True Aquatic         Hydrogen Su         Oxidized Rhi:         Presence of         Recent Iron F         Thin Muck Su         Gauge or Wa         Other (Explain         X       Depth (inches)         X       Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bui Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
marks: lepleted lay <b>YDROLO</b> etland Hyd imary Indic Surface High W. Saturati Water N Sedime Drift De Algal M. Iron De Inundati Sparsel etld Observ urface Wate aturation Pr iccludes cap escribe Red	Per with redox was observed Prology Indicators: Eators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur Present? Present? Y Present? Y Present? Y Present? Y	required: che ery (B7) face (B8) fes No fes No fes No je, monitorin	eck all that apply)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on 1 Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bui Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
marks: Jepleted lay etland Hyd rimary Indic Surface High W. Saturati Water N Sedime Drift De Algal M. Iron Dej Inundati Sparsel eld Observ urface Wate 'ater Table aturation Pr ncludes cap escribe Red	Per with redox was observed Prology Indicators: Pators (minimum of one is r Water (A1) ater Table (A2) ion (A3) Warks (B1) Proposits (B2) Proposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur Present? Present? Y Present? Y Pillary fringe)	required: che ery (B7) face (B8) fes No fes No fes No je, monitorin	eck all that apply)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	I) Living Root (C4) illed Soils (( ) Wetlar	s (C3) C6)	Secondary Indicat Surface Soi Drainage Pa Dry-Season Crayfish Bui Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County	: Racine County		s	ampling Da	ate: 7/17/20	)18
Applicant/Owner:	Wisconisn Dept. of Transportation				State	-	Sampling Point			-34	
Investigator(s):	K. Carlson, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, cor				
Slope (%):	3% Lat:	42.668524			Long:		7.855314			IAD83 UTM	16N
	e: MzdC - Ozaukee silt loam, 6 to 12 percent slope							NWI classifica		lone	
-	logic conditions on the site typical for this time of y				Vec	X No	(If no, explain	-	<u></u>	ione	
-			N oir	mificantly diat	-				Vee	V No	
Are Vegetation	<u>N</u> , Soil <u>N</u> N, Soil N	, or Hydrology		gnificantly dist			al Circumstances" pre		165	X_No	
Are Vegetation		, or Hydrology		turally probler			explain any answers	III Kelliaiks.)			
	FINDINGS Attach site map showing										
	getation Present?	Yes	No_	Х		Sampled Are	ea				
Hydric Soil Pres		Yes	No_	X	within	n a Wetland?		Yes	No	X	
Wetland Hydrold	Jgy Flesent?	Yes	No_	Х							
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	as were normal. The point is	s in an upland	woodlot betwo	een subdivisions.						
VEGETATION -	- Use scientific names of plants.										
				Absolute	Dominant	Indicator					
Tree Stratum (Plot			-	% Cover	Species?	Status	Dominance Test	worksheet:			
1. Tilia americana				50%	Yes	FACU					
2. Acer saccharun				30%	Yes	FACU	Number of Domina				
3. Ulmus americar	na			5%	No	FACW	That Are OBL, FAC	CW, or FAC:		2	(A)
4					·	<u> </u>					
5							Total Number of Do				
				85%	= Total Cover		Species Across All	Strata:		6	(B)
-	um (Plot size: 15' radius)						Percent of Domina				
1. Rhamnus catha				30%	Yes	FAC	That Are OBL, FAC	CW, or FAC:	3	3%	(A/B)
2. Lonicera tataric	a			15%	Yes	FACU					
3						·					
4							Prevalence Index	worksheet:			
5.											
				45%	= Total Cover		Total % C		N	Aultiply by:	
							That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot		_					OBL species		x1 =		
1. Rhamnus catha				15%	Yes	FAC	FACW species	5%	x2 =	0.1	
2. Lonicera tatarica				10%	Yes	FACU	FAC species	47%	X3 =	1.41	
3. Toxicodendron	ryabergii			2%	No	FAC	FACU species	105%		4.2	
4					·	<u> </u>	UPL species	4.57	x5 =	5 74	(D)
5					·	<u> </u>	Column Totals:	1.57	(A)	5.71	(B)
6					·		Descrite	D/A		0.04	
7					·		Prevale	nce Index = B/A		3.64	
8					·						
9					·		Hedronked's Man				
10					·		Hydrophytic Vege	etation indicate	rs:		
11					·	<u> </u>	4 Deniel T			4 <sup>1</sup>	
12					·	<u> </u>		est for Hydrophy		tion	
13.					·	<u> </u>		nce Test is >509 nce Index is ≤3.0			
14					·			ogical Adaptatio		le sunnortin	a
15.					·						9
16					·	<u> </u>		emarks or on a tic Hydrophytic			
17					·	<u> </u>		lie Hydrophylie	vegetation	(Explain)	
18					·	<u> </u>	<sup>1</sup> Indicators of hydrid	coil and wotlar	ad hydrolog	n/ must	
19					·					jy musi	
20				070/	Tatal Gauss		be present, unless	disturbed or pro	biematic.		
				27%	= Total Cover						
Weedy Vine Stretur	m (Plot size: 30' radius)					<u> </u>	Used as a boot in				
							Hydrophytic				
1 2.					·		Vegetation Present?	Vee	N-	¥	
£					= Total Cover		readity	Yes	No	~	
			-								
Remarks: (Include) The herbaceous lay	photo numbers here or on a separate sheet.)						<u>+</u>				

	ription: (Describe to the	e depth needeo	I to document the inc	dicator or con	firm the ab	sence of in	dicators.)		
Depth	Matrix			dox Features	_ 1	2	-		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-18"	10YR 3/2	100			С	M	Silt Loam		<u> </u>
18-24"	10YR 3/3	70	10YR 4/6	30	С	М	Clay Loam		
		. <u> </u>							
		·							
<sup>1</sup> Type: C=C	oncentration, D=Depletio	n, RM=Reduced	d Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.	
Hydric Soil I		,	,				dicators of Hydric \$		
Histoso	l (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)	
Histic E	pipedon (A2)		Sandy Redo	ox (S5)			Very Shallo	w Dark Surface (F22)	
Black H	listic (A3)		Stripped Ma	trix (S6)			Other (Expl	ain in Remarks)	
Hydroge	en Sulfide (A4)		Dark Surfac	e (S7)					
Stratifie	d Layers (A5)		Loamy Mucl	ky Mineral (F1)					
	uck (A10)			ed Matrix (F2)					
	d Below Dark Surface (A	.11)	Depleted Ma				2		
	ark Surface (A12)			Surface (F6)	_		•	dicators have been up	
	Mucky Mineral (S1)			ark Surface (F7	7)			e Field Indicators of H	
5 cm M	ucky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United S	States, Version 8.0, 20	16.
Restrictive L	ayer (if observed):								
Туре:									
Depth (ii	nches):					Hydric S	Soil Present?	Yes	No <u>X</u>
HYDROL	OGY								
Wetland Hyd	Irology Indicators:								
Primary Indic	ators (minimum of one is	required: check	all that apply)				Secondary Indicat	ors (minimum of two r	equired)
Surface	Water (A1)		Water-Stain	ed Leaves (B9	9)		Surface Soi	l Cracks (B6)	
	ater Table (A2)		Aquatic Fau	na (B13)			Drainage Pa	atterns (B10)	
Saturati	on (A3)		True Aquation	c Plants (B14)			Dry-Seasor	Water Table (C2)	
	/larks (B1)			ulfide Odor (C	-		Crayfish Bu		
	nt Deposits (B2)			izospheres on	-	s (C3)		isible on Aerial Image	ry (C9)
	posits (B3)			Reduced Iron				Stressed Plants (D1)	
	at or Crust (B4)			Reduction in T	illed Soils (C	(6)	FAC-Neutra	C Position (D2)	
	posits (B5)	on (D7)	Thin Muck S					ii Test (D5)	
———	on Visible on Aerial Imag y Vegetated Concave Su	,		'ell Data (D9) ain in Remarks	)				
	y vegetated concave ou				)				
Field Observ									
Surface Wate		Yes No							
Water Table		Yes No					<b>D</b> (0)		
Saturation Pr		Yes No	X Depth (inches	s): >18"	Wetlan	id Hydrolog	gy Present?	Yes	No <u>X</u>
(includes cap	illary fringe) corded Data (stream gau	ae monitoring v	vell aerial photos pro	vious inspectio	ns) if availa	hle:			
Describe iter	colded Data (Stream gau	ge, morntoring v	ven, aenai priotos, pre	vious inspectio	ns), ii avalia				
Remarks:									
No wetland hy	drology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County	: Racine County		S	ampling Date	e: 7/17/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation				State	: WI	Sampling Poin		DP-3		
Investigator(s):	K. Carlson, E. Englund					Section, Townshi	ip, Range: TWP 3N,	RNG 22E, SEC	35		
Landform (hillslope	, terrace, etc.): Toeslope					Loc	al relief (concave, co	nvex, none): cor	ncave		
Slope (%):	2% Lat:	42.6685	96		Long:	-8	37.858666		Datum: NA	AD83 UTM1	6N
Soil Map Unit Name	e: BIA - Blount silt loam, 1 to 3 percent slopes							NWI classifica	ation: T3	к	
Are climatic / hydro	blogic conditions on the site typical for this time of	f year?			Yes	X No	(If no, explain	in Remarks.)			
Are Vegetation	N , Soil N	, or Hydrology	Ν	significantly dist	turbed?	Are "Norma	al Circumstances" pr	esent?	Yes >	K_No	
Are Vegetation	N , Soil N	, or Hydrology	Ν	naturally proble	matic?	(If needed,	explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showin	g sampling point I	ocations, tra	insects, imp	ortant feature	es, etc.					
Hydrophytic Ve	getation Present?	Yes x	No	2	Is the	Sampled Are	ea				
Hydric Soil Pres	sent?	Yes X	No	о	withir	n a Wetland?		Yes x	No		
Wetland Hydrol	ogy Present?	Yes X	No	2	-						
Remarks: WETS analysis det	termined that the antecedent precipitation conditi	ons were normal. The fe	ature is a woode	ed swamp in a w	oodlot between s	ubdivisions.					
VEGETATION	Use scientific names of plants.										
Tree Stratum (Plot	size: 30' radius)			Absolute % Cover	Dominant Species 2	Indicator	Dominance Test	werkeheet			
1. Quercus bicolo				30%	Species? Yes	Status FACW	Dominance Test	worksneet:			
2. Fraxinus penns				20%	Yes	FACW	Number of Domina	ant Species			
3. Tilia americana				20%	Yes	FACU	That Are OBL, FA		7	, ,	(A)
4. Populus deltoid	des			10%	No	FAC					
5.							Total Number of D	ominant			
				80%	= Total Cover		Species Across Al	l Strata:	8	3(	(B)
One line (Oher the Oters											
1. Rhamnus catha	tum (Plot size: 15' radius)			15%	Yes	FAC	Percent of Domina	-	88	0/	(A/D)
2. Fraxinus penns				5%	Yes	FAC	That Are OBL, FA	JW, OF FAC.	00	70 (	(A/B)
3. Viburnum opulu				2%	No	FAC					
4.				270			Prevalence Index	worksheet:			
5.											
				22%	= Total Cover		Total % C	over of:	M	ultiply by:	
					-		That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot	t size: 5' radius)						OBL species		x1 =		
1. Arisaema triphy				15%	Yes	FACW	FACW species	75%	x2 =	1.5	
2. Rhamnus catha				5%	Yes	FAC	FAC species	32%	x3 =	0.96	
3. Ribes americar	num			5%	Yes	FACW	FACU species	20%	x4 =	0.8	
4						. <u> </u>	UPL species	4.07	x5 =	0.00	(D)
5							Column Totals:	1.27	(A)	3.26	(B)
6 7							Provale	ence Index = B/A	_	2.57	
8.					· . <u></u>		1 levale	nice muex - D/A		2.01	
9.											
10.							Hydrophytic Veg	etation Indicato	ors:		
11.					·		, , , , , , , , , , , , , , , , , , , ,				
12.							1-Rapid T	est for Hydrophy	/tic Vegetati	on	
13.							X 2-Domina	ince Test is >50%	%		
14.							X 3-Prevale	nce Index is ≤3.0	) <sup>1</sup>		
15.							4-Morpho	logical Adaptatic	ns <sup>1</sup> (Provide	supporting	I.
16.							data in R	emarks or on a	separate she	eet)	
17.							Problema	atic Hydrophytic	Vegetation <sup>1</sup>	(Explain)	
18											
19							<sup>1</sup> Indicators of hydri	c soil and wetlar	id hydrology	must	
20.							be present, unless	disturbed or pro	blematic.		
				25%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.							Present?	Yes	No		
					= Total Cover			·		_	
					-						
Remarks: (Include	photo numbers here or on a separate sheet.)						-				
The herbaceous lav	ver is sparse.										

Profile Desc Depth	cription: (Describe to th Matrix	e depth need		<b>cator or con</b> lox Features	firm the ab	sence of ir	ndicators.)	
-		%		%	Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Domorko
(inches)	Color (moist)		Color (moist)	70				Remarks
0-3"	10YR 2/1	100			C	M	Silt Loam	
3-6"	10YR 2/1	95	7.5YR 4/6	5	С	M	Silt Loam	
6-18"	7.5YR 6/1	65	7.5YR 4/6	35	С	M	Clay	
<sup>1</sup> Type: C=0	Concentration, D=Depletic	n, RM=Reduc	ed Matrix, CS=Covered o	r Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil	Indicators <sup>3</sup> :					Test Ir	ndicators of Hydric	Soils:
Histose	ol (A1)		Sandy Gleyed					nese Masses (F12)
	Epipedon (A2)		Sandy Redox					w Dark Surface (F22)
	Histic (A3)		Stripped Matr				Other (Expl	ain in Remarks)
	gen Sulfide (A4)		Dark Surface					
	ed Layers (A5)		Loamy Mucky		)			
	Muck (A10)	(11)	Loamy Gleye					
	ed Below Dark Surface (A	(11)	X Depleted Mat				<sup>3</sup> The hudrie cellin	diasters have been undeted to
	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark S		7)		,	dicators have been updated to e <i>Field Indicators of Hydric Soils</i>
	Mucky Peat or Peat (S3)		X Redox Depre		()			States, Version 8.0, 2016.
				3310113 (1 0)			in the onited c	
	Layer (if observed):							
Type:	(					11.1.1.1.1	- '' D	
Deptil (	(inches):					Hyunc a	Soil Present?	Yes <u>X</u> No
HYDROL	.OGY							
Wetland Hy	drology Indicators:							
	cators (minimum of one is	required: che						tors (minimum of two required)
	e Water (A1)		X Water-Staine		9)			il Cracks (B6)
·	Vater Table (A2)		Aquatic Faun					atterns (B10)
	tion (A3)		True Aquatic				,	Water Table (C2)
	Marks (B1)		Hydrogen Su	•	,	(00)	X Crayfish Bu	
	ent Deposits (B2) eposits (B3)		Oxidized Rhiz Presence of F		0	s (C3)		/isible on Aerial Imagery (C9) Stressed Plants (D1)
	Mat or Crust (B4)		Recent Iron F			26)		c Position (D2)
×	eposits (B5)		Thin Muck Su			.0)	X FAC-Neutra	
	tion Visible on Aerial Imag	erv (B7)	Gauge or We					
	ely Vegetated Concave Su		Other (Explain		.)			
		( ),	、		, T			
Field Obser		Vee Ne	V Depth (inches)	. NI/A				
Water Table		Yes <u>No</u> Yes No	X Depth (inches) X Depth (inches)					
Saturation P			X Depth (inches)		Wetlan	d Hydrolo	gy Present?	Yes X No
	pillary fringe)			. 210	Wettan		gyrresenti	
	ecorded Data (stream gau	uae. monitorina	well, aerial photos, previ	ous inspectio	ns), if availa	ble:		
	<b>.</b>	5-,	, , ,		-,,			
Remarks:								
Lower portion	ns of the feature held surfa	ace water at tir	ne of survey.					

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County	: Racine County		S	ampling Da	ate: 7/17/20	018
Applicant/Owner:	Wisconisn Dept. of Transportation				State	-	Sampling Point			P-36	
Investigator(s):	K. Carlson, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, co				
Slope (%):	5% Lat:	42.668597			Long:		7.858726			AD83 UTM	116N
	e: BIA - Blount silt loam, 1 to 3 percent slopes	12.000001						NWI classifica		None	
	logic conditions on the site typical for this time of y	ioar?			Vec	X No	(If no, explain	-		lone	
-	N , Soil N		N sig	gnificantly dist	-		I Circumstances" pre		Vaa	V No	
Are Vegetation	<u> </u>	, or Hydrology							165	X_No	—
Are Vegetation		, or Hydrology		aturally proble			explain any answers	in Remarks.)			
	FINDINGS Attach site map showing										
	getation Present?	Yes	No_	X	-	Sampled Are	a	N/	N		
Hydric Soil Pres		Yes	No_	X	within	n a Wetland?		Yes		х	
Wetland Hydrold	ogy Flesent?	Yes	No_	Х	-						
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	ns were normal. The point	is in an upland	woodlot betw	een subdivisions.						
VEGETATION -	- Use scientific names of plants.										
T 0				Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		_	% Cover	Species?	Status	Dominance Test	worksheet:			
1. Quercus rubra				40%	Yes	FACU					
2. Fraxinus penns	•			10%	No	FACW	Number of Domina			_	(
3. Tilia americana				10%	No	FACU	That Are OBL, FAC	CW, or FAC:		3	(A)
4					·						
5							Total Number of De				(=)
				60%	= Total Cover		Species Across All	Strata:		6	(B)
	tum (Plot size: 15' radius)			000/		540	Percent of Domina				(4.15)
1. Rhamnus catha				20%	Yes	FAC	That Are OBL, FAC	SW, or FAC:	5	50%	(A/B)
2. Lonicera tataric			·	10%	Yes	FACU					
3. Fraxinus penns	sylvanica		·	2%	No	FACW	Description of the description				
4			·				Prevalence Index	worksneet:			
5.				32%	Total Causer	·	Total % C	aver of		Autoba	
				32%	= Total Cover		Total % C That Are OBL, FAC			Multiply by:	A/B
Herb Stratum (Plot	size: 5' radius)						OBL species	,	x1 =		
1. Rhamnus catha		_		5%	Yes	FAC	FACW species	12%		0.24	
2. Anemone quinq				2%	Yes	FAC	FAC species	27%	x3 =	0.81	
3. Trillium grandifle				2%	Yes	UPL	FACU species	60%	x4 =	2.4	
4.							UPL species	2%	x5 =	0.1	
5.						·	Column Totals:	1.01	(A)	3.55	(B)
6.									-`		( )
7.						·	Prevale	nce Index = B/A	۹ =	3.51	
8.						·					
9.						·					
10.						·	Hydrophytic Vege	etation Indicate	ors:		
11.						·					
12.							1-Rapid T	est for Hydroph	ytic Vegeta	tion	
13.						·	2-Domina	nce Test is >50	%		
14.						·	3-Prevale	nce Index is ≤3.	0 <sup>1</sup>		
15.						·	4-Morpho	ogical Adaptatio	ons <sup>1</sup> (Provid	le supportir	ıg
16.							data in R	emarks or on a	separate s	heet)	
17.							Problema	tic Hydrophytic	Vegetation	<sup>1</sup> (Explain)	
18.											
19.							<sup>1</sup> Indicators of hydri	c soil and wetla	nd hydrolog	y must	
20.							be present, unless	disturbed or pro	oblematic.		
				9%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.							Present?	Yes	No	х	
					= Total Cover						
					-						
Remarks: (Include The herbaceous lay	photo numbers here or on a separate sheet.) yer is sparse.										

Profile Desc	ription: (Describe to the	e depth neede	d to document the inc	licator or con	firm the ab	sence of in	dicators.)		
Depth	Matrix			dox Features	- 1		-		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-14"	10YR 5/3	100			С	М	Silt Loam		
14-20"	10YR 5/3	95	10YR 4/4	5	С	М	Loam		
							- <u> </u>		
							·		
<sup>1</sup> Type: C=C	oncentration, D=Depletion	n. RM=Reduce	d Matrix. CS=Covered	or Coated Sar	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.	
Hydric Soil I		,					dicators of Hydric		
Histoso	I (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)	
Histic E	pipedon (A2)		Sandy Redo	ox (S5)			Very Shallo	w Dark Surface (F22	)
Black H	listic (A3)		Stripped Ma	trix (S6)			Other (Expl	ain in Remarks)	
Hydrog	en Sulfide (A4)		Dark Surface	e (S7)					
Stratifie	d Layers (A5)		Loamy Much	ky Mineral (F1)					
2 cm M	uck (A10)		Loamy Gley	ed Matrix (F2)					
Deplete	d Below Dark Surface (A	11)	Depleted Ma	atrix (F3)			_		
	ark Surface (A12)			Surface (F6)			-	dicators have been u	
	Mucky Mineral (S1)			ark Surface (F7	7)			e Field Indicators of	-
5 cm M	ucky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United S	States, Version 8.0, 2	016.
Restrictive L	ayer (if observed):								
Туре:									
Depth (i	nches):					Hydric S	oil Present?	Yes	No X
HYDROL	OGY								
Wetland Hyd	Irology Indicators:						_		
Primary Indic	ators (minimum of one is	required: chec	< all that apply)					tors (minimum of two	required)
Surface	Water (A1)			ed Leaves (B9	)		Surface So	il Cracks (B6)	
High W	ater Table (A2)		Aquatic Fau	na (B13)			Drainage P	atterns (B10)	
	ion (A3)		·	Plants (B14)			`	water Table (C2)	
	Marks (B1)			ulfide Odor (C1			Crayfish Bu		
	nt Deposits (B2)			izospheres on	0	s (C3)		/isible on Aerial Imag	ery (C9)
	posits (B3)			Reduced Iron				Stressed Plants (D1)	
	at or Crust (B4)			Reduction in T	illed Soils (C	6)		c Position (D2)	
	posits (B5)	(53)	Thin Muck S				FAC-Neutra	al lest (D5)	
	ion Visible on Aerial Imag			ell Data (D9)	\ \				
Sparse	y Vegetated Concave Su	nace (B8)	Other (Expla	ain in Remarks	)				
Field Observ	ations:								
Surface Wate	er Present?	/es No	X Depth (inches	s): N/A					
Water Table	Present?	/es No	X Depth (inches	s): <u>&gt;18"</u>					
Saturation Pr		/es No	X Depth (inches	s): <u>&gt;18"</u>	Wetlan	d Hydrolog	y Present?	Yes	No X
(includes cap									
Describe Re	corded Data (stream gau	ge, monitoring	well, aerial photos, prev	vious inspectio	ns), if availal	ble:			
Remarks:									
	drology was observed.								
,									

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		S	ampling Da	ate: 7/17/201	18
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point			P-37	
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N,				
Landform (hillslope,						al relief (concave, cor				
Slope (%):	1% Lat:	42.668519		Long:		37.862026	· · · · · · · · · · · · · · · · · · ·		AD83 UTM1	16N
	e: AtA - Ashkum silty clay loam, 0 to 2 percent slop			- J			NWI classifica		lone	
	logic conditions on the site typical for this time of y			Yes	X No	(If no, explain i	-	<u> </u>		
Are Vegetation	N , Soil Y	, or Hydrology N	significantly distu	-		al Circumstances" pre		Yes	No X	x
Are Vegetation	N , Soil N	, or Hydrology N				explain any answers				<u> </u>
-	FINDINGS Attach site map showing	,	/:			ospiair any anonoro				
	getation Present?		No		Sampled Are					
Hydric Soil Pres		Yes <u>x</u> Yes x	No		a Wetland?	za	Yes x	No		
Wetland Hydrol		Yes X	No							
Remarks: WETS analysis det	termined that the antecedent precipitation condition	ns were normal. The feature is	a roadside ditch overgrov	vn with sandbar	willow.					
VEGETATION	Use scientific names of plants.					-				
			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	vorksheet:			
1										
2						Number of Dominal				(
3						That Are OBL, FAC	W, or FAC:		3	(A)
4						T				
5				= Total Cover		Total Number of Do			3	(D)
				= Total Cover		Species Across All	Sirala.		3	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	t Species			
1. Salix interior	(10(0)20110 (0000)		95%	Yes	FACW	That Are OBL, FAC		1(	00%	(A/B)
2. Acer Negundo			5%	No	FAC	marrie obe, rrie				(,,,,,)
3.										
4.						Prevalence Index	vorksheet:			
5.										
			100%	= Total Cover		Total % C	over of:	Ν	Aultiply by:	
						That Are OBL, FAC				A/B
Herb Stratum (Plot	size: 5' radius)					OBL species		x1 =		
1. Salix interior			5%	Yes	FACW	FACW species	102%	x2 =	2.04	
2. Impatiens cape	ensis		2%	Yes	FACW	FAC species	5%	x3 =	0.15	
3.						FACU species		x4 =		
4.						UPL species		x5 =		
5.						Column Totals:	1.07	(A)	2.19	(B)
6										
7						Prevale	nce Index = B/A	. =	2.05	
8										
9										
10						Hydrophytic Vege	tation Indicato	ors:		
11										
12							est for Hydrophy		tion	
13.							ice Test is >50%			
14							ce Index is ≤3.0		la aunantia.	~
15							ogical Adaptatio			1
16							marks or on a ic Hydrophytic	-		
17						1105ie11a	ic riyulopriyuc	vegetation	(Explain)	
18						<sup>1</sup> Indicators of hydrid	soil and wetlar	ad bydroloc	w must	
19									y musi	
20			7%	= Total Cover		be present, unless	disturbed of pro	ibiematic.		
			170	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic				
1.						Hydrophytic Vegetation				
2.						-	Vac	/ No		
£				= Total Cover		Present?	165 /	<u>No</u>	—	
	photo numbers here or on a separate sheet.) ed out the herbaceous layer.					<u>ļ</u>				

	ription: (Describe to th	e depth needed			firm the abs	sence of in	dicators.)	
Depth	Matrix			dox Features	<b>-</b>	. 2	<b>T</b> (	<b>D</b>
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5"	10YR 3/1	100			С	М	Loam	Gravel, unable to sample past 5"
	oncentration, D=Depletion	on, RM=Reduced	Matrix, CS=Covered	or Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M	=Matrix.
Hydric Soil I	ndicators <sup>3</sup> :					Test Inc	dicators of Hydric	: Soils:
Histoso	l (A1)		Sandy Gleye	d Matrix (S4)			Iron-Mang	anese Masses (F12)
Histic E	pipedon (A2)		Sandy Redo	x (S5)			Very Shall	ow Dark Surface (F22)
Black H	listic (A3)		Stripped Mat	rix (S6)			X Other (Exp	olain in Remarks)
Hydrog	en Sulfide (A4)		Dark Surface	e (S7)				
Stratifie	ed Layers (A5)		Loamy Muck	y Mineral (F1)				
2 cm M	luck (A10)		Loamy Gleye	ed Matrix (F2)				
Deplete	ed Below Dark Surface (A	A11)	Depleted Ma	trix (F3)				
Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil i	ndicators have been updated to
Sandy	Mucky Mineral (S1)		Depleted Da	rk Surface (F7	<b>'</b> )		comply with t	he Field Indicators of Hydric Soils
5 cm M	lucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United	States, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре: о								
Depth (i		5				Hydric S	oil Present?	Yes X No
Remarks:						-		
HYDROL	OGY							
Wetland Hyd	rology Indicators:						_	
Primary Indic	ators (minimum of one is	s required: check	all that apply)				Secondary Indic	ators (minimum of two required)
Surface	e Water (A1)		Water-Staine	ed Leaves (B9	)		Surface S	oil Cracks (B6)
High W	ater Table (A2)		Aquatic Faur	na (B13)			Drainage	Patterns (B10)
Saturat	ion (A3)		True Aquatic	Plants (B14)			Dry-Seaso	on Water Table (C2)
Water I	Marks (B1)		Hydrogen Su	Ilfide Odor (C1	)		Crayfish B	Surrows (C8)
Sedime	ent Deposits (B2)		Oxidized Rhi	zospheres on	Living Roots	(C3)	Saturation	Visible on Aerial Imagery (C9)
Drift De	eposits (B3)		Presence of	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Iron I	Reduction in Ti	illed Soils (C	6)	X Geomorph	nic Position (D2)
	posits (B5)		Thin Muck S			,		ral Test (D5)
Inundat	ion Visible on Aerial Imag	aerv (B7)	Gauge or We	ell Data (D9)				
	ly Vegetated Concave S			in in Remarks)				
·				,	T			
Field Observ								
Surface Wat		Yes No						
Water Table		Yes No					<b>D</b> (0)	
Saturation P		Yes No	X Depth (inches	): >18"	Wetland	d Hydrolog	y Present?	Yes X No
(includes cap			and a substant at a s					
Describe Re	corded Data (stream ga	uge, monitoring v	veii, aeriai photos, prev	ious inspectioi	ns), ir availat	DIE:		
Remarks:								
	a hydric soil unit.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		Sampling Date: 7/17/2018
Applicant/Owner:	Wisconisn Dept. of Transportation				e: WI	Sampling Point:	DP-38
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N, RNG 22E, SEC	
Landform (hillslope,						al relief (concave, convex, none): c	
Slope (%):	1% Lat:	42.668533		Long:	•	37.861999	Datum: NAD83 UTM16N
	: AtA - Ashkum silty clay loam, 0 to 2 percent slopes			· J	-	NWI classifie	
	ogic conditions on the site typical for this time of yea			Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	N , Soil Y	, or Hydrology N	significantly distu			al Circumstances" present?	Yes <u>No X</u>
Are Vegetation	N , Soil N	, or Hydrology N	naturally problen			explain any answers in Remarks.)	
	FINDINGS Attach site map showing s		-			explain any answers in itematics.)	
Hydropnytic Veg	getation Present?	Yes X N Yes N			e Sampled Are n a Wetland?		No x
Wetland Hydrold				within		Yes	NoX
	sy reserce	103 <u> </u>					
Remarks: WETS analysis dete	ermined that the antecedent precipitation conditions	were normal. The point is between	a roadside ditch a	ind a woodlot.			
VEGETATION -	- Use scientific names of plants.						
			Absolute	Dominant	Indicator		
Tree Stratum (Plot s	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1					·		
2					·	Number of Dominant Species	
3.					·	That Are OBL, FACW, or FAC:	3 (A)
4							
5					·	Total Number of Dominant	
				= Total Cover		Species Across All Strata:	3 (B)
-	um (Plot size: 15' radius)					Percent of Dominant Species	
1. Salix interior			5%	Yes	FACW	That Are OBL, FACW, or FAC:	100% (A/B)
2					·		
3.					·		
4					·	Prevalence Index worksheet:	
5.							
			5%	= Total Cover		Total % Cover of: That Are OBL, FACW, or FAC:	Multiply by: A/B
Herb Stratum (Plot :	size: 5' radius)					OBL species	x1 =
1. Poa pratensis			40%	Yes	FAC	FACW species 5%	$x_{1} = 0.1$
2. Apocynum cann	ashinum		15%	Yes	FAC	FAC species 55%	$x_2 = 0.1$ $x_3 = 1.65$
3. Hypericum perfo			10%	No	FACU	FACU species 25%	x4 = 1
4. Solidago canade			5%	No	FACU	UPL species 2%	x5 = 0.1
5. Taraxacum offic			5%	No	FACU	Column Totals: 0.87	(A) 2.85 (B)
6. Daucus carota			2%	No	UPL		(1)
7. Cirsium arvense	3		2%	No	FACU	Prevalence Index = B/	/A = 3.28
8. Asclepias vertic			2%	No	FACU		
9. Erigeron strigos			1%	No	FACU		
10.						Hydrophytic Vegetation Indica	tors:
11.					·		
12.					·	1-Rapid Test for Hydrop	hytic Vegetation
13.					·	X 2-Dominance Test is >50	
14.					·	3-Prevalence Index is ≤3	
15.					·	4-Morphological Adaptat	tions <sup>1</sup> (Provide supporting
16.					·	data in Remarks or on a	a separate sheet)
17.						Problematic Hydrophytic	c Vegetation <sup>1</sup> (Explain)
18.							
19.						<sup>1</sup> Indicators of hydric soil and wetla	and hydrology must
20.						be present, unless disturbed or p	roblematic.
			82%	= Total Cover			
-							
Woody Vine Stratum	n (Plot size: 30' radius)					Hydrophytic	
1.						Vegetation	
2.						Present? Yes	X No
				= Total Cover		_	
	photo numbers here or on a separate sheet.) dominates throughout.						

Profile Desc Depth	ription: (Describe to th Matrix	e depth needed		icator or con dox Features	firm the ab	sence of in	dicators.)		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rei	narks
<u> </u>		·		/0	C				
0-5"	10YR 3/1	100			U	M	Loam	Gravel, unable	to sample past 5"
				·					
				·		·			
<sup>1</sup> Type: C=C	Concentration, D=Depletic	n, RM=Reduced	Matrix, CS=Covered	or Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, N	I=Matrix.	
Hydric Soil I		,	,				dicators of Hydrid		
Histoso	bl (A1)		Sandy Gleye	d Matrix (S4)			Iron-Mang	anese Masses (F12	)
Histic E	Epipedon (A2)		Sandy Redo	x (S5)			Very Shal	low Dark Surface (F	22)
Black H	Histic (A3)		Stripped Mat				Other (Ex	plain in Remarks)	
Hydrog	jen Sulfide (A4)		Dark Surface						
Stratifie	ed Layers (A5)		Loamy Muck	y Mineral (F1)					
	luck (A10)		Loamy Gleye	ed Matrix (F2)					
	ed Below Dark Surface (A	(11)	Depleted Ma						
	Dark Surface (A12)		Redox Dark				<sup>3</sup> The hydric soil	indicators have been	updated to
Sandy	Mucky Mineral (S1)		Depleted Da	rk Surface (F7	7)			he Field Indicators of	
5 cm N	lucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United	States, Version 8.0	, 2016.
Restrictive I	_ayer (if observed):								
Type:									
Depth (						Hydric S	oil Present?	Yes	No X
HYDROL	OGY								
Wetland Hyd	drology Indicators:								
	cators (minimum of one is	required: check						ators (minimum of ty	vo required)
Surface	e Water (A1)		Water-Staine	ed Leaves (B9	)		Surface S	oil Cracks (B6)	
High W	ater Table (A2)		Aquatic Faur	na (B13)			Drainage	Patterns (B10)	
Saturat	tion (A3)		·	Plants (B14)				on Water Table (C2)	
Water	Marks (B1)			ulfide Odor (C1	,			Burrows (C8)	
	ent Deposits (B2)			zospheres on	0	s (C3)		Visible on Aerial Im	
Drift De	eposits (B3)			Reduced Iron			Stunted o	r Stressed Plants (D	1)
	lat or Crust (B4)			Reduction in T	illed Soils (0	C6)		hic Position (D2)	
Iron De	eposits (B5)		Thin Muck S	. ,			X FAC-Neu	ral Test (D5)	
	tion Visible on Aerial Imaç		Gauge or W						
Sparse	ly Vegetated Concave So	urface (B8)	Other (Expla	in in Remarks)	)				
Field Observ	vations:								
Surface Wat	er Present?	Yes No X	Depth (inches	): N/A					
Water Table	Present?	Yes No X	Depth (inches	): >18"					
Saturation P	resent?	Yes No X	Depth (inches	5): >18"	Wetlan	d Hydrolog	y Present?	Yes	No X
(includes cap	oillary fringe)								
Describe Re	corded Data (stream gau	ige, monitoring w	ell, aerial photos, prev	vious inspectio	ns), if availa	ble:			
Remarks:	drology was shoen s								
No wetland ng	ydrology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Count	ty	Sampling Date: 7/17/2018
Applicant/Owner:	Wisconisn Dept. of Transportation				: WI	Sampling Point:	DP-39
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	ip, Range: TWP 2N, RNG 22E, SE	:C 2
Landform (hillslope,	terrace, etc.): Toeslope				Loc	al relief (concave, convex, none):	concave
Slope (%):	0% Lat:	42.663827		Long:	-8	87.866978	Datum: NAD83 UTM16N
Soil Map Unit Name	: MzdB2 - Ozaukee silt loam, 2 to 6 percent slopes	, eroded				NWI classif	ication: None
Are climatic / hydrol	logic conditions on the site typical for this time of ye	⊧ar?		Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norma	al Circumstances" present?	Yes X No
Are Vegetation	N , Soil N	, or Hydrology N	naturally probler	natic?	(If needed,	, explain any answers in Remarks.)	
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations	s, transects, impo	ortant featur	es, etc.		
Hydrophytic Veg	getation Present?	Yes x	No	Is the	Sampled Are	ea	
Hydric Soil Pres		Yes x	No	withi	n a Wetland?	Yes x	No
Wetland Hydrold	ogy Present?	Yes <u>x</u>	No				
Remarks: WETS analysis dete	ermined that the antecedent precipitation conditions	were normal. The feature is a ro	oadside ditch of cattai	ls.			
VEGETATION -	Use scientific names of plants.						
Trans Otractions (Dist			Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1					·	Number of Deminent Oracian	
2. 3.					·	Number of Dominant Species That Are OBL, FACW, or FAC:	1 (A)
4.					· <u> </u>		(//)
5.					·	Total Number of Dominant	
				= Total Cover	·	Species Across All Strata:	1 (B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species	
1.						That Are OBL, FACW, or FAC:	100% (A/B)
2.							
3							
4.						Prevalence Index worksheet:	
5.							
·				= Total Cover		Total % Cover of:	Multiply by:
Herb Stratum (Plot	cize: E' rediue)					That Are OBL, FACW, or FAC:	A/B
			80%	Yes	OBL	OBL species 80%	x1 = 0.8 x2 =
<ol> <li>Typha X glauca</li> <li>2.</li> </ol>	2		0078	163		FAC species	X3 =
3.					·	FACU species	x4 =
4.					·	UPL species	x5 =
5.				-	·	Column Totals: 0.80	(A) 0.8 (B)
6.							
7.						Prevalence Index = E	B/A = 1.00
8.							
9							
10						Hydrophytic Vegetation Indica	ators:
11					·		
12					·	X 1-Rapid Test for Hydrop	
13.						X 2-Dominance Test is >8 x 3-Prevalence Index is ≤	
14					·		ations <sup>1</sup> (Provide supporting
15 16.					·	data in Remarks or on	
17.					·		tic Vegetation <sup>1</sup> (Explain)
18.					· <u> </u>		
19.					·	<sup>1</sup> Indicators of hydric soil and wet	land hydrology must
20.					·	be present, unless disturbed or	
			80%	= Total Cover	·		
<b>-</b>							
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic	
1		<b>_</b>				Vegetation	
2.						Present? Yes	X No
				= Total Cover			
						<u> </u>	
Remarks: (Include Vegetation is similar	photo numbers here or on a separate sheet.) r throughout.						

		depth needed	to document the indi			Sence of I	ndicators.)	
Depth	Matrix			dox Features	_ 1	2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3"	10YR 3/1	70	10YR 5/1	25	D	М	Clay Loam	
			7.5YR 4/6	5	С	М	Clay Loam	
3-12"	10YR 4/1	90	10YR 4/6	10	С	М	Clay Loam	
12-24"	10YR 4/2	75	10YR 4/6	25	С	М	Clay	
						_		
<sup>1</sup> Type: C=C	Concentration, D=Depletion,	RM=Reduced	Matrix, CS=Covered o	or Coated Sar	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=N	latrix.
Hydric Soil I	Indicators <sup>3</sup> :					Test Ir	ndicators of Hydric Se	oils:
Histoso	ol (A1)		Sandy Gleyed	d Matrix (S4)			Iron-Mangane	ese Masses (F12)
Histic E	Epipedon (A2)		Sandy Redox				Very Shallow	Dark Surface (F22)
	Histic (A3)		Stripped Matr				Other (Explai	n in Remarks)
	gen Sulfide (A4)		Dark Surface	. ,				
	ed Layers (A5)		Loamy Mucky					
	luck (A10)		Loamy Gleye					
	ed Below Dark Surface (A11	1)	X Depleted Mat	. ,			3	
	Dark Surface (A12)		X Redox Dark S				•	cators have been updated to
	Mucky Mineral (S1)		Depleted Dar	-	()			Field Indicators of Hydric Soils
	lucky Peat or Peat (S3)		X Redox Depre	SSIONS (FO)			in the United Sta	ates, Version 8.0, 2016.
	_ayer (if observed):							
Type:	·							<b>.</b>
Depth (i	Inches):					Hydric	Soil Present?	Yes <u>X</u> No
HYDROL	067							
Wetland Hyd	001							
	drology Indicators:							
Primary Indic		equired: check a	all that apply)				Secondary Indicato	rs (minimum of two required)
	drology Indicators:	equired: check a	all that apply) Water-Staine	d Leaves (B9	)		Secondary Indicato	
Surface	drology Indicators: cators (minimum of one is re	equired: check a		`	)			Cracks (B6)
Surface High W	drology Indicators: cators (minimum of one is re e Water (A1)	equired: check a	Water-Staine	a (B13)	)		Surface Soil Drainage Pat	Cracks (B6)
Surface High W Saturat	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2)	equired: check a	Water-Staine	a (B13) Plants (B14)			Surface Soil Drainage Pat	Cracks (B6) terns (B10) Water Table (C2)
Surface High W Saturat Water I Sedime	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	equired: check a	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C <sup>2</sup> cospheres on	) Living Root	s (C3)	Surface Soil U Drainage Pat Dry-Season V Crayfish Burr Saturation Vi	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9)
Surface High W Saturat Water I Sedime	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	equired: check a	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14) Ifide Odor (C <sup>2</sup> cospheres on	) Living Root	s (C3)	Surface Soil U Drainage Pat Dry-Season V Crayfish Burr Saturation Vi	Cracks (B6) terns (B10) Water Table (C2) ows (C8)
Surface High W Saturat Water I Sedime Drift De Algal M	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4)	equired: check i	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Resent Iron F	a (B13) Plants (B14) Ifide Odor (C <sup>2</sup> cospheres on Reduced Iron Reduction in T	) Living Root (C4)		Surface Soil / Drainage Pat Dry-Season \ Crayfish Burr Saturation Vi Stunted or St X Geomorphic	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7)	) Living Root (C4)		Surface Soil I Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager	y (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	) Living Root (C4) illed Soils (		Surface Soil / Drainage Pat Dry-Season \ Crayfish Burr Saturation Vi Stunted or St X Geomorphic	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)	y (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	) Living Root (C4) illed Soils (		Surface Soil / Drainage Pat Dry-Season \ Crayfish Burr Saturation Vi Stunted or St X Geomorphic	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) tion Visible on Aerial Imager	y (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	) Living Root (C4) illed Soils (		Surface Soil / Drainage Pat Dry-Season \ Crayfish Burr Saturation Vi Stunted or St X Geomorphic	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse	drology Indicators: cators (minimum of one is re e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa	y (B7) ace (B8) es NoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (C cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks	) Living Root (C4) illed Soils (		Surface Soil / Drainage Pat Dry-Season \ Crayfish Burr Saturation Vi Stunted or St X Geomorphic	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Water Water Table	drology Indicators: cators (minimum of one is re- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye	y (B7) ace (B8) esNoX esNoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) Ifide Odor (C <sup>2</sup> cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): <u>N/A</u> ): <u>N/A</u>	) Living Root (C4) illed Soils ((	C6)	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr	drology Indicators: cators (minimum of one is re- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye resent? Ye	y (B7) ace (B8) es NoX es NoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) Ifide Odor (C <sup>2</sup> cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): <u>N/A</u> ): <u>N/A</u>	) Living Root (C4) illed Soils ((	C6)	Surface Soil / Drainage Pat Dry-Season \ Crayfish Burr Saturation Vi Stunted or St X Geomorphic	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	drology Indicators: cators (minimum of one is re- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye- resent? Ye- pillary fringe)	y (B7) ace (B8) es NoX es NoX es NoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18"	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	drology Indicators: cators (minimum of one is re- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye resent? Ye	y (B7) ace (B8) es NoX es NoX es NoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18"	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Re	drology Indicators: cators (minimum of one is re- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye- resent? Ye- pillary fringe)	y (B7) ace (B8) es NoX es NoX es NoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18"	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Saturation Pr (includes cap Describe Re	drology Indicators: cators (minimum of one is received water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye resent? Ye poillary fringe) ecorded Data (stream gauge	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring we	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18" ious inspectio	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Saturation Pr (includes cap Describe Re	drology Indicators: cators (minimum of one is re- e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye- resent? Ye- pillary fringe)	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring we	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18" ious inspectio	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Saturation Pr (includes cap Describe Re	drology Indicators: cators (minimum of one is received water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye resent? Ye poillary fringe) ecorded Data (stream gauge	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring we	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18" ious inspectio	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)
Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ Surface Wate Saturation Pr (includes cap Describe Re	drology Indicators: cators (minimum of one is received water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imager ely Vegetated Concave Surfa vations: ter Present? Ye resent? Ye poillary fringe) ecorded Data (stream gauge	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring we	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C- cospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) n in Remarks ): N/A ): >18" ious inspectio	I) Living Root (C4) illed Soils ( <sup>1</sup> ) ) Wetlar	C6) nd Hydrolo	Surface Soil Drainage Pat Dry-Season V Crayfish Burr Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) terns (B10) Water Table (C2) ows (C8) sible on Aerial Imagery (C9) ressed Plants (D1) Position (D2) Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County:	: Kenosha Count	у	Sampling Date: 7/17/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			State:	: WI	Sampling Point:	DP-40
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	p, Range: TWP 2N, RNG 22E, S	EC 2
Landform (hillslope,	, terrace, etc.): Shoulder				Loca	al relief (concave, convex, none):	convex
Slope (%):	3% Lat:	42.663827		Long:	-8	37.866978	Datum: NAD83 UTM16N
Soil Map Unit Name	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slopes,	eroded				NWI class	ification: None
Are climatic / hydrol	logic conditions on the site typical for this time of year	ar?		Yes	X No	(If no, explain in Remarks.)	)
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norma	al Circumstances" present?	Yes X No
Are Vegetation	N, Soil N	, or Hydrology N	naturally probler	natic?	(If needed,	explain any answers in Remarks.	.)
SUMMARY OF	FINDINGS Attach site map showing s	ampling point locations,	transects, imp	ortant feature	es, etc.		
Hydrophytic Veg	getation Present?	Yes	No <u>x</u>	Is the	Sampled Are	≱a	
Hydric Soil Pres		Yes	No <u>x</u>	within	n a Wetland?	Yes	<u>No x</u>
Wetland Hydrold	ogy Present?	Yes	No <u>x</u>				
Remarks: WETS analysis dete	termined that the antecedent precipitation conditions	were normal. The point is in mov	ved lawn.				
VEGETATION -	Use scientific names of plants.					<u></u>	
Tree Stratum (Plot	cizo: 20' rodiuo)		Absolute	Dominant	Indicator		
1.	size. 30 facius)		% Cover	Species?	Status	Dominance Test worksheet:	
2.						Number of Dominant Species	
3.						That Are OBL, FACW, or FAC:	0 (A)
4.						, ,	(1)
5.						Total Number of Dominant	
				= Total Cover		Species Across All Strata:	1 (B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Species	
1.						That Are OBL, FACW, or FAC:	0% (A/B)
2.							
3.							
4.						Prevalence Index worksheet:	
5.							
				= Total Cover		Total % Cover of: That Are OBL, FACW, or FAC:	Multiply by: A/B
Herb Stratum (Plot	eize: 5' radiue)						x1 =
1. Schedonorus al			65%	Yes	FACU	OBL species	x2 =
2. Cirsium arvense			10%	No	FACU	FAC species 10%	x3 = 0.3
3. Poa pratensis			10%	No	FAC	FACU species 80%	x4 = 3.2
4. Dipsacus lacinia	iatus		5%	No	UPL	UPL species 5%	x5 = 0.25
5. Taraxacum offic	cinale		5%	No	FACU	Column Totals: 0.95	(A) 3.75 (B)
6.							
7.						Prevalence Index =	B/A = 3.95
8							
9							
10						Hydrophytic Vegetation Indic	cators:
11.				<u> </u>			
12.						1-Rapid Test for Hydro	
13 14.						2-Dominance Test is > 3-Prevalence Index is	
15.							tations <sup>1</sup> (Provide supporting
16.				<u> </u>		data in Remarks or or	
17.							/tic Vegetation <sup>1</sup> (Explain)
18.							
19.						<sup>1</sup> Indicators of hydric soil and we	atland hydrology must
20.						be present, unless disturbed or	problematic.
			95%	= Total Cover			
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic	
1						Vegetation	
2						Present? Yes	No X
				= Total Cover			
						ļ	
	photo numbers here or on a separate sheet.) s to Kentucky bluegrass upslope.						

Profile Desc	ription: (Describe to th	e depth needeo	d to document the ind	dicator or con	firm the ab	sence of in	dicators.)		
Depth	Matrix			edox Features	1		-		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rer	narks
0-8"	10YR 3/2	100			С	M	Loam		
8-20"	10YR 4/3	100			С	М	Clay Loam		
<sup>1</sup> Type: C=C	Concentration, D=Depletic	on. RM=Reduced	d Matrix. CS=Covered	or Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.	
Hydric Soil I				er etalea ean			dicators of Hydric S		
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)	1
Histic E	pipedon (A2)		Sandy Redo	ox (S5)			Very Shallo	w Dark Surface (F2	22)
Black H	listic (A3)		Stripped Ma	ıtrix (S6)			Other (Expla	ain in Remarks)	
Hydrog	en Sulfide (A4)		Dark Surfac	e (S7)					
Stratifie	ed Layers (A5)		Loamy Muc	ky Mineral (F1)					
2 cm M	luck (A10)		Loamy Gley	red Matrix (F2)					
Deplete	ed Below Dark Surface (A	A11)	Depleted Ma	atrix (F3)					
Thick D	oark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil inc	dicators have been	updated to
	Mucky Mineral (S1)			ark Surface (F7	7)			e Field Indicators o	-
5 cm M	lucky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United S	States, Version 8.0,	2016.
Restrictive L	ayer (if observed):								
Туре:									
Depth (i	nches):					Hydric S	oil Present?	Yes	<u>No X</u>
HYDROL	OGY								
Wetland Hyd	drology Indicators:								
Primary Indic	ators (minimum of one is	s required: check	c all that apply)				Secondary Indicat	ors (minimum of tw	<i>v</i> o required)
Surface	e Water (A1)		Water-Stain	ed Leaves (B9	)		Surface Soi	l Cracks (B6)	
High W	ater Table (A2)		Aquatic Fau	na (B13)			Drainage Pa	atterns (B10)	
Saturat	ion (A3)		True Aquation	c Plants (B14)			Dry-Season	Water Table (C2)	
Water I	Marks (B1)		Hydrogen S	ulfide Odor (C1	)		Crayfish Bu	rrows (C8)	
	ent Deposits (B2)			izospheres on	0	s (C3)		/isible on Aerial Ima	
	eposits (B3)			Reduced Iron				Stressed Plants (D	1)
	lat or Crust (B4) posits (B5)			Reduction in T Surface (C7)	illed Soils (C	26)	Geomorphic	c Position (D2)	
	ion Visible on Aerial Imag	nerv (B7)		/ell Data (D9)				1001 (20)	
	ly Vegetated Concave Si			ain in Remarks	)				
		( )							
Field Observ			V Danth (inches	-). NI/A					
Surface Wat Water Table		Yes No Yes No		-					
Saturation Pr		Yes No		·	Wotlan	d Hydrolog	y Present?	Yes	No X
(includes cap				5). >10	wettan	α πγαι σιοξ	y Flesent:	163	
-	corded Data (stream gau	uae. monitorina v	well, aerial photos, pre	vious inspectio	ns). if availa	ble:			
	<b>J</b>	3, , , , , , , , , , , , , , , , , , ,	,,,		-,,				
Remarks:									
No wetland hy	/drology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Count	y	Sampling Date: 7/17/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State	: WI	Sampling Point:	DP-41	
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	ip, Range: TWP 2N, RNG 22	2E, SEC 2	
Landform (hillslope,	e, terrace, etc.): Toeslope				Loc	al relief (concave, convex, no	one): concave	
Slope (%):	2% Lat:	42.662514		Long:	-	87.86899	Datum: NAD83 UTM16N	
Soil Map Unit Name	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slopes	s, eroded				NWI	classification: None	
Are climatic / hydro	plogic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in Rem	arks.)	
Are Vegetation	N, Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norma	al Circumstances" present?	Yes X No	
Are Vegetation	N, Soil N	, or Hydrology N	naturally probler	natic?	(If needed,	explain any answers in Rem	narks.)	
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations	, transects, imp	ortant feature	es, etc.			
Hydrophytic Ve	getation Present?	Yes x	No	Is the	Sampled Are	ea		
Hydric Soil Pres	sent?	Yes x	No	withir	n a Wetland?	Yes	s <u>x</u> No	
Wetland Hydrol	ogy Present?	Yes x	No					
Remarks: WETS analysis det	termined that the antecedent precipitation condition	is were normal. WETS analysis de	etermined that the an	tecedent precipit	ation conditions v	vere normal.		
VEGETATION	Use scientific names of plants.					<del></del>		
Tree Stratum (Plot	teize: 30' radius)		Absolute	Dominant	Indicator	Deminente Testurelet	h	
1.	size. 30 Taulus)		% Cover	Species?	Status	Dominance Test worksh	ieet:	
2.						Number of Dominant Spec	cies	
3.						That Are OBL, FACW, or		
4.							()	
5.						Total Number of Dominant	ıt	
				= Total Cover		Species Across All Strata:	и: 1 (В)	
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant Spec	cies	
1.						That Are OBL, FACW, or	FAC: 100% (A/B)	
2.								
3.								
4						Prevalence Index worksh	heet:	
5.								
[				= Total Cover		Total % Cover of:		
Herb Stratum (Plot	t cito: E' radius)					That Are OBL, FACW, or F		
1. Euthamia gram		-	65%	Yes	FACW	OBL species	x1 = 75% x2 = 1.5	
2. Phalaris arundi			10%	No	FACW		$\frac{100}{100}$	
3. Rumex crispus			1%	No	FAC	FACU species	x4 =	
4.						UPL species	x5 =	
5.							0.76 (A) 1.53 (B)	
6.								
7.						Prevalence Inc	dex = B/A = 2.01	
8.								
9								
10						Hydrophytic Vegetation	Indicators:	
11								
12							Hydrophytic Vegetation	
13.						X 2-Dominance Tes X 3-Prevalence Ind		
14.							Adaptations <sup>1</sup> (Provide supporting	
15.								
16 17.							s or on a separate sheet) drophytic Vegetation <sup>1</sup> (Explain)	
18.								
19.						<sup>1</sup> Indicators of hydric soil a	ind wetland hydrology must	
20.						be present, unless disturb		
			76%	= Total Cover				
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic		
1						Vegetation		
2.						Present?	Yes <u>X</u> No	
				= Total Cover			_	
						<u> </u>		
	e photo numbers here or on a separate sheet.) s extends outside the wetland.							
Depth	Matrix		Re	dox Features				
---	--	---	--	--	--	------------------	--	---
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12"	10Yr 2/2	80	2.5YR 6/1	20	D	М	Clay Loam	Gravel inclusions
12-20"	10YR 5/2	95	7.5YR 5/8	5	С	М	Clay	
·								
·								
						2		
	oncentration, D=Depleti ndicators <sup>3</sup> :	on, RM=Reduc	ed Matrix, CS=Covered	or Coated Sar	nd Grains.		PL=Pore Lining, M=I	
Histosol			Sandy Gleve	ed Matrix (S4)		1631 1	-	nese Masses (F12)
_	pipedon (A2)		Sandy Redo					w Dark Surface (F22)
	listic (A3)		Stripped Ma					ain in Remarks)
	en Sulfide (A4)		Dark Surfac				0 and (2.4)	
	d Layers (A5)			ky Mineral (F1)	)			
_	uck (A10)			ed Matrix (F2)				
	ed Below Dark Surface (	A11)	Depleted Ma					
	ark Surface (A12)		·	Surface (F6)			<sup>3</sup> The hydric soil inc	licators have been updated to
Sandy N	Mucky Mineral (S1)		X Depleted Da	ark Surface (F7	7)		comply with the	Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United S	tates, Version 8.0, 2016.
estrictive L	ayer (if observed):							
	.,,							
Type:								
Depth (ir marks:	nches):					Hydric \$	Soil Present?	Yes <u>X</u> No
Depth (ir emarks: hallow deplet	tions were observed.					Hydric \$	Soil Present?	Yes <u>X</u> No
Depth (ir emarks: hallow deplet	tions were observed. OGY Irology Indicators:					Hydric \$		
Depth (ir emarks: hallow deplet YDROL( retland Hyd rimary Indic	tions were observed. OGY Irology Indicators: ators (minimum of one i	s required: che				Hydric \$	Secondary Indicat	ors (minimum of two required)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indic: Surface	tions were observed. OGY Irology Indicators: eators (minimum of one i	s required: che	Water-Stain	ed Leaves (B9	)	Hydric \$	Secondary Indicat	ors (minimum of two required) I Cracks (B6)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indic Surface High Wa	tions were observed. OGY frology Indicators: ators (minimum of one i water (A1) ater Table (A2)	s required: che	Water-Stain Aquatic Fau	na (B13)	))	Hydric \$	Secondary Indicat Surface Soil Drainage Pa	ors (minimum of two required) I Cracks (B6) atterns (B10)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indica Surface High Wa Saturati	tions were observed. OGY frology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3)	s required: che	Water-Stain Aquatic Fau True Aquatic	na (B13) : Plants (B14)		Hydric \$	Secondary Indicat Surface Soi Drainage Pa Dry-Season	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water N	tions were observed. OGY trology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1)	s required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen St	na (B13) Plants (B14) ulfide Odor (C <sup>2</sup>	1)		Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)
Depth (ir marks: allow deplet YDROL( etland Hyd mary Indic Surface High Wa Saturati Water N Sedime	tions were observed. OGY trology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)	s required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) Plants (B14) ulfide Odor (C <sup>2</sup> izospheres on	1) Living Roots		Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial Imagery (C9)
YDROL( etland Hyd imary Indic Surface High Wa Saturati Water N Sedime Drift De	tions were observed. OGY Irology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ont Deposits (B2) oposits (B3)	s required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron	1) Living Roots (C4)	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Pepth (ir marks: allow deplet YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift Dej Algal Ma	tions were observed. OGY Irology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4)	s required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T	1) Living Roots (C4)	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep	tions were observed. OGY frology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ent Deposits (B2) sposits (B3) at or Crust (B4) posits (B5)		Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7)	1) Living Roots (C4)	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Depth (ir marks: allow deplet yDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift Dep Algal Ma Iron Dep Inundati	tions were observed. OGY frology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima	gery (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	1) Living Roots (C4) ïlled Soils (C6	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Depth (ir marks: allow deplet YDROL( /etland Hyd rimary Indic: Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel	tions were observed. OGY Irology Indicators: eators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S	gery (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7)	1) Living Roots (C4) ïlled Soils (C6	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Pepth (ir emarks: hallow deplet YDROL( Yetland Hyd rimary Indica Surface High Wa Saturati Water M Sedime Drift Dep Algal Ma Iron Dep Inundati Sparset	tions were observed. OGY frology Indicators: ators (minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S rations:	gery (B7) urface (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	1) Living Roots (C4) ïlled Soils (C6	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indica Surface High Wa Saturati Water N Sedime Drift Dep Algal Ma Iron Dep Inundati Sparsel eld Observ urface Wate	tions were observed. OGY frology Indicators: ators (minimum of one i ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S vations: er Present?	gery (B7) urface (B8) Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen St         Oxidized Rhi         Presence of         Recent Iron         Thin Muck S         Other (Expland)         X       Depth (inchest)	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	1) Living Roots (C4) ïlled Soils (C6	(C3)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indica Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron Dep Inundati Sparsel eld Observ vater Table	tions were observed. OGY frology Indicators: ators (minimum of one i ators (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) at or Crust (B4) posits (B5) ion Visible on Aerial Ima ly Vegetated Concave S vations: er Present? Present?	gery (B7) urface (B8) Yes No Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen Si         Oxidized Rhi         Presence of         Recent Iron         Thin Muck Si         Gauge or W         Other (Explain         X       Depth (inchest         X       Depth (inchest	ha (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Roots (C4) ïilled Soils (C(	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Depth (ir marks: allow deplet YDROL( etland Hyd rimary Indica Surface High Wa Saturati Water N Sedime Drift Dep Algal Ma Iron Dep Inundati Sparsel eld Observ urface Water /ater Table aturation Pr	tions were observed. OGY frology Indicators: ators (minimum of one i ators (minimum of one i ator Table (A2) ion (A3) Marks (B1) ent Deposits (B2) eposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S vations: er Present? Present?	gery (B7) urface (B8) Yes No Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen St         Oxidized Rhi         Presence of         Recent Iron         Thin Muck S         Other (Expland)         X       Depth (inchest)	ha (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Roots (C4) ïilled Soils (C(	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But Saturation V Stunted or S X Geomorphic	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Depth (ir Depth (ir emarks: hallow deplet YDROLO retland Hyd rimary Indica Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron Deg Inundati Sparsel ield Observ vater Table aturation Princludes cap	tions were observed. OGY trology Indicators: ators (minimum of one i ators (Minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S rations: er Present? Present? resent? iillary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen Si         Oxidized Rhi         Presence of         Recent Iron         Thin Muck Si         Gauge or W         Other (Explain         X       Depth (inchestion         X       Depth (inchestion)	ha (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): >18" s): >18"	1) Living Roots (C4) ïilled Soils (Cf ) Wetlanc	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Pepth (ir Pemarks: hallow deplet YDROLO /etland Hyd rrimary Indica Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel ield Observ Surface Wate Vater Table Gaturation Pr ncludes cap	tions were observed. OGY trology Indicators: ators (minimum of one i ators (Minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S rations: er Present? Present? resent? iillary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen Si         Oxidized Rhi         Presence of         Recent Iron         Thin Muck Si         Gauge or W         Other (Explain         X       Depth (inchesting         X       Depth (inchesting)	ha (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): >18" S): >18"	1) Living Roots (C4) ïilled Soils (Cf ) Wetlanc	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Depth (ir marks: allow deplet <b>YDROLO</b> <b>etland Hyd</b> rimary Indica Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron Deg Inundati Sparsel <b>eld Observ</b> urface Wate /ater Table aturation Princludes cap	tions were observed. OGY trology Indicators: ators (minimum of one i ators (Minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S rations: er Present? Present? resent? iillary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen Si         Oxidized Rhi         Presence of         Recent Iron         Thin Muck Si         Gauge or W         Other (Explain         X       Depth (inchestion         X       Depth (inchestion)	ha (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): >18" S): >18"	1) Living Roots (C4) ïilled Soils (Cf ) Wetlanc	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Depth (ir marks: allow deplet YDROL( Yetland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron Dep Inundati Sparsel eld Observ urface Wate /ater Table aturation Princludes cap	tions were observed. OGY trology Indicators: ators (minimum of one i ators (Minimum of one i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S rations: er Present? Present? resent? iillary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen Si         Oxidized Rhi         Presence of         Recent Iron         Thin Muck Si         Gauge or W         Other (Explain         X       Depth (inchestion         X       Depth (inchestion)	ha (B13) Plants (B14) Ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): >18" S): >18"	1) Living Roots (C4) ïilled Soils (Cf ) Wetlanc	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Pepth (ir emarks: hallow deplet YDROL( /etland Hyd /rimary Indic: Surface High Wa Saturati Water N Sedime Drift De Algal Ma Iron Deg Inundati Sparsel ield Observ Surface Wate Vater Table Gaturation Princludes cap Describe Rec	tions were observed. OGY Irology Indicators: ators (minimum of one i ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Ima by Vegetated Concave S rations: er Present? Present? resent? iillary fringe) corded Data (stream ga	gery (B7) urface (B8) Yes No Yes No Yes No uge, monitoring	Water-Stain         Aquatic Faul         True Aquatic         Hydrogen Si         Oxidized Rhi         Presence of         Recent Iron         Thin Muck Si         Gauge or W         Other (Explain         X       Depth (inchestion         X       Depth (inchestion)	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): >18" vious inspectio	1) Living Roots (C4) ïilled Soils (Cf ) Wetlanc	(C3) 5)	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Count	v	S	Sampling Date: 7	7/17/2018	5
Applicant/Owner:	Wisconisn Dept. of Transportation				e: WI	Sampling Point		DP-42		
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 2N,				
Landform (hillslope,		10 000505			•	al relief (concave, con	ivex, none): col			
Slope (%):	5% Lat:	42.662525		Long:	-8	7.869039		Datum: NAD8		N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slope						NWI classifica	ation: None		
Are climatic / hydro	logic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain	n Remarks.)			
Are Vegetation	N , Soil Y	, or Hydrology N	significantly dist	urbed?	Are "Norma	I Circumstances" pre	sent?	Yes 1	No <u>X</u>	
Are Vegetation	N , Soil N	, or Hydrology N	naturally problen	natic?	(If needed,	explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations	s, transects, impo	ortant featur	es, etc.					
	getation Present?	Yes x	No		Sampled Are	a				
Hydric Soil Pres		Yes	No X		n a Wetland?		Yes	No <u>x</u>		
Wetland Hydrold		Yes	No x						—	
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	is were normal. The point is along	g a road shoulder.							
VEGETATION	Use scientific names of plants.					1				
Tree Streture (Diet	cize: 20' rediue)		Absolute	Dominant	Indicator					
Tree Stratum (Plot	size. So fadius)		% Cover	Species?	Status	Dominance Test	worksheet:			
1					·					
2					·	Number of Domina				
3					·	That Are OBL, FAC	W, or FAC:	1	(A)	()
4										
5.				-	·	Total Number of De	ominant			
				= Total Cover		Species Across All	Strata:	1	(B)	3)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	nt Species			
1						That Are OBL, FAG	W, or FAC:	100%	(A/	/B)
2.										
3.										
4.						Prevalence Index	worksheet:			
5.										
				= Total Cover		Total % C	over of:	Multip	oly by:	
						That Are OBL, FAC	W, or FAC:		A/I	'B
Herb Stratum (Plot	size: 5' radius)					OBL species	-	x1 =		
1. Poa pratensis		-	60%	Yes	FAC	FACW species		x2 =		
2. Cirsium arvense	e		15%	No	FACU	FAC species	62%	x3 =	1.86	
3. Taraxacum offic	cinale		5%	No	FACU	FACU species	31%	x4 =	1.24	
4. Lotus cornicula			5%	No	FACU	UPL species	6%	x5 =	0.3	
5. Sonchus arvens			5%	No	FACU	Column Totals:	0.99	(A)	3.4	(B)
6. Daucus carota			2%	No	UPL	oolamin rotalo.	0.00			_(3)
7. Plantago major			2%	No	FAC	Prevale	nce Index = B/A	A = 3.4	13	
8. Convolvulus an			2%	No	UPL	Trevale	nce muex - D/F		+0	
			2%	No	UPL					
9. Leucanthemum										
10. Erigeron strigos	sus		1%	No	FACU	Hydrophytic Vege	tation Indicato	ors:		
11					·					
12					·		est for Hydroph			
13.							nce Test is >50			
14					·		nce Index is ≤3.			
15.					·	4-Morpho	ogical Adaptatio	ons <sup>1</sup> (Provide su	pporting	
16.								separate sheet)		
17.						Problema	tic Hydrophytic	Vegetation <sup>1</sup> (Exp	plain)	
18.										
19.						<sup>1</sup> Indicators of hydri	soil and wetlar	nd hydrology mu	Jst	
20.					·	be present, unless	disturbed or pr/	oblematic.		
			99%	= Total Cover	·					
Woody Vine Stratur	m (Plot size: 30' radius)				<u> </u>	Hydrophytic				
1.						Vegetation				
2.					·	Present?	Vac	X No		
۷				Total O:	·	Fresent?	res	XNo		
				= Total Cover						
						L				
	photo numbers here or on a separate sheet.) imilar along the road.									

Profile Desc	ription: (Describe to th	e depth needed t	o document the ind	licator or con	firm the ab	sence of inc	dicators.)				
Depth	Matrix			dox Features	1						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks		
0-9"	10YR 3/3	100					Silt Loam	Gravel inclusions at 9"	prevented furthe	r sampling.	
		·		•		•					
						•					
<sup>1</sup> Turno: C-C	Concentration, D=Depletic	- PM-Poduced I	Matrix CS-Covered	- Coatod Sar		<sup>2</sup> Lecation:	PL=Pore Lining, M	Motrix			
Hydric Soil I				Ji Coaleu Sail	iu Grains.		dicators of Hydrid				
Histoso			Sandy Gleve	ed Matrix (S4)			-	anese Masses (F12	2)		
	Epipedon (A2)		Sandy Redox					low Dark Surface (F	-		
	Histic (A3)		Stripped Mat					plain in Remarks)	*		
Hydrog	gen Sulfide (A4)		Dark Surface	e (S7)							
Stratifie	ed Layers (A5)		Loamy Muck	ky Mineral (F1)	)						
2 cm M	luck (A10)		Loamy Gleye	ed Matrix (F2)							
Deplete	ed Below Dark Surface (A	411)	Depleted Ma	ıtrix (F3)							
	Dark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil i	indicators have beer	n updated to		
	Mucky Mineral (S1)			ark Surface (F7	7)	comply with the Field Indicators of Hydric Soils					
5 cm M	lucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United	States, Version 8.0	), 2016.		
Restrictive L	_ayer (if observed):										
Туре: (											
Depth (i	inches): 9	,				Hydric So	oil Present?	Yes	No	Х	
	<u> </u>										
-	drology Indicators: cators (minimum of one is	required: check a	that annly)				Secondary Indic	ators (minimum of tw	wo required)		
	e Water (A1)	Bequiled. Chook a	11.27	ed Leaves (B9	9)			oil Cracks (B6)	NO requirea,		
	/ater Table (A2)		Aquatic Faun		7			Patterns (B10)			
Ŭ	tion (A3)			Plants (B14)				on Water Table (C2)	)		
	Marks (B1)			ulfide Odor (C1	1)			Burrows (C8)			
	ent Deposits (B2)			izospheres on	-	s (C3)		Visible on Aerial Im	agery (C9)		
Drift De	eposits (B3)		Presence of	Reduced Iron	(C4)		Stunted or	r Stressed Plants (D	1)		
Algal M	lat or Crust (B4)		Recent Iron F	Reduction in T	illed Soils (	26)	Geomorph	hic Position (D2)			
Iron De	eposits (B5)		Thin Muck St	urface (C7)			FAC-Neut	ral Test (D5)			
	tion Visible on Aerial Imag		Gauge or We	ell Data (D9)							
Sparse	ely Vegetated Concave Su	urface (B8)	Other (Explai	in in Remarks	)						
Field Observ	vations:				Τ						
Surface Wat	er Present?	Yes No X	Depth (inches	s): N/A							
Water Table	Present?	Yes No X	Depth (inches	s): >18"							
Saturation Pr	resent?	Yes No X	Depth (inches	s): <u>&gt;18</u> "	Wetlar	nd Hydrology	y Present?	Yes	No	Х	
(includes cap											
Describe Re	ecorded Data (stream gau	.ge, monitoring we	ill, aerial photos, prev	ious inspection	ns), if availa	able:					
Remarks:											
	ydrology was observed.										

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County	ę	Sampling Date: 7/17/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point:	DP-43
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	p, Range: TWP 3N, RNG 22E, SEC	35
Landform (hillslope,	, terrace, etc.): Toeslope				Loc	al relief (concave, convex, none): co	ncave
Slope (%):	1% Lat:	42.670288		Long:	-8	37.863021	Datum: NAD83 UTM16N
Soil Map Unit Name	e: AtA - Ashkum silty clay loam, 0 to 2 percent slope	es.				NWI classific	ation: None
Are climatic / hydro	logic conditions on the site typical for this time of ye	er?		Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	N, Soil N	, or Hydrology N	significantly dist	urbed?	Are "Norma	al Circumstances" present?	Yes X No
Are Vegetation	N , Soil N	, or Hydrology N	naturally probler	natic?	(If needed,	explain any answers in Remarks.)	
SUMMARY OF	FINDINGS Attach site map showing	sampling point locations	, transects, impo	ortant feature	es, etc.		
Hydrophytic Veg	getation Present?	Yes x	No	Is the	Sampled Are	∋a	
Hydric Soil Pres	sent?	Yes X	No	withir	n a Wetland?	Yes x	No
Wetland Hydrold	ogy Present?	Yes X	No				
	termined that the antecedent precipitation conditions	s were normal. The feature is a sh	hrub-carr extending to	the roadway.			
VEGETATION	Use scientific names of plants.		Abaaluta	Dominant	Indicator	T	
Tree Stratum (Plot	size: 30' radius)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1.							
2.						Number of Dominant Species	
3.						That Are OBL, FACW, or FAC:	4 (A)
4.							
5.						Total Number of Dominant	
				= Total Cover		Species Across All Strata:	4 (B)
-	tum (Plot size: 15' radius)		500/	X	51014	Percent of Dominant Species	1000/ (1/D)
Salix interior     Cornus racemo			20%	Yes	FACW	That Are OBL, FACW, or FAC:	100% (A/B)
3. Ribes hirtellum			10%	No	FAC		
4.			10%		171011	Prevalence Index worksheet:	
5.							
			80%	= Total Cover		Total % Cover of:	Multiply by:
						That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	size: 5' radius)	_				OBL species	x1 =
1. Solidago gigant	tea		40%	Yes	FACW	FACW species 125%	x2 = 2.5
2. Phalaris arundir			10%	No	FACW	FAC species 21%	x3 = 0.63
3. Apocynum cani	nabinum		1%	No	FAC	FACU species	x4 =
4.						UPL species	x5 =
5						Column Totals: 1.46	(A) 3.13 (B)
6 7.						Prevalence Index = B/A	0.14
8.						Flevalence muex = D/A	A = 2.14
9.							
10.						Hydrophytic Vegetation Indicate	ors:
11.							
12.						1-Rapid Test for Hydroph	vytic Vegetation
13.						X 2-Dominance Test is >50	%
14.						X 3-Prevalence Index is ≤3.	
15.						4-Morphological Adaptati	ons <sup>1</sup> (Provide supporting
16						data in Remarks or on a	
17						Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
18						1	
19						<sup>1</sup> Indicators of hydric soil and wetla	
20				Total Causer		be present, unless disturbed or pre-	oblematic.
			51%	= Total Cover			
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic	
1. Vitis riparia			15%	Yes	FACW	Vegetation	
2.						Present? Yes	X No
			15%	= Total Cover			
Remarks: (Include The shrub layer is c	photo numbers here or on a separate sheet.) dense.						

Profile Desc	ription: (Describe to the	e depth needed t	to document the ind	icator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix			dox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8"	10YR 3/1	100					Silty Clay Loam	
8-24"	10YR 5/2	90	10YR 7/6	10	С	М	Clay Loam	
							· · _	
		<u> </u>					·	
<sup>1</sup> Type: C=C	oncentration, D=Depletio	- PM-Poducod I	Matrix CS-Covorod	or Costod San	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix
Hydric Soil I		I, INIEINEduced I		Ji Cualeu Sali	u Grains.		dicators of Hydric S	
Histoso			Sandv Gleve	d Matrix (S4)			-	nese Masses (F12)
	pipedon (A2)		Sandy Redo					w Dark Surface (F22)
	listic (A3)		Stripped Mat					ain in Remarks)
Hydrog	en Sulfide (A4)		Dark Surface					
Stratifie	d Layers (A5)		Loamy Muck	y Mineral (F1)				
2 cm M	uck (A10)		Loamy Gleye	ed Matrix (F2)				
X Deplete	ed Below Dark Surface (A	11)	X Depleted Ma	trix (F3)				
Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil inc	licators have been updated to
Sandy	Mucky Mineral (S1)		Depleted Da	rk Surface (F7	')		comply with the	e Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	tates, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре:	,							
Depth (i	nches):					Hydric S	oil Present?	Yes X No
Remarks:		· · · · · · · · · · · · · · · · · · ·						
HYDROL	OGY							
Wetland Hyd	Irology Indicators:							
Primary Indic	ators (minimum of one is	required: check a	all that apply)				Secondary Indicat	ors (minimum of two required)
Surface	e Water (A1)		Water-Staine	ed Leaves (B9	)		Surface Soi	l Cracks (B6)
	ater Table (A2)		Aquatic Faur	na (B13)			Drainage Pa	atterns (B10)
Saturat	ion (A3)		True Aquatic	Plants (B14)			Dry-Season	Water Table (C2)
Water I	Marks (B1)		Hydrogen Su	ulfide Odor (C1	)		Crayfish Bu	
	ent Deposits (B2)			zospheres on	-	s (C3)		isible on Aerial Imagery (C9)
	posits (B3)			Reduced Iron				Stressed Plants (D1)
	at or Crust (B4)			Reduction in T	illed Soils (C	26)	·	Position (D2)
	posits (B5)	(==)	Thin Muck S	. ,			X FAC-Neutra	i Test (D5)
	ion Visible on Aerial Imag	,	Gauge or W	. ,				
Sparse	ly Vegetated Concave Su	пасе (В8)	Other (Expla	in in Remarks)				
Field Observ	vations:							
Surface Wat	er Present?	res No X	Depth (inches	): <u>N/A</u>				
Water Table	Present?	Yes No X	Depth (inches	5): >18"				
Saturation P		Yes No X	Depth (inches	5): >18"	Wetlan	d Hydrolog	y Present?	Yes X No
(includes cap								
Describe Re	corded Data (stream gau	ge, monitoring we	ell, aerial photos, prev	vious inspection	ns), if availa	ble:		
Remarks:								
	s of the feature may conta	ain standing wate	r.					
2	state is a large may conta							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/Count	y: Racine County	,	Sampling Date: 7/17/2018
Applicant/Owner:	Wisconisn Dept. of Transportation				e: WI	Sampling Point:	DP-44
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 3N, RNG 22E, SEC	
Landform (hillslope,						al relief (concave, convex, none): co	
Slope (%):	4% Lat:	42.670273		Long:	-	37.863063	Datum: NAD83 UTM16N
	: AtA - Ashkum silty clay loam, 0 to 2 percent slope			· · · ·		NWI classific	
	logic conditions on the site typical for this time of ye			Yes	X No	(If no, explain in Remarks.)	
Are Vegetation	Y , Soil N	, or Hydrology N	significantly distu			al Circumstances" present?	Yes No X
Are Vegetation	N , Soil N	, or Hydrology N	naturally problem			explain any answers in Remarks.)	
-	FINDINGS Attach site map showing s		-			explain any answers in itemarks.	
	1 0		<i>'</i> 1		,		
Hydropnytic Veg Hydric Soil Pres	getation Present?		lo lo		e Sampled Are n a Wetland?		No v
Wetland Hydrold			10 <u> </u>	WILIII		Yes	No <u></u> _
-	Sy reserve						
Remarks: WETS analysis dete	ermined that the antecedent precipitation conditions	were normal. Data point was taken	in a recently mow	ed road right-of	-way.		
VEGETATION -	<ul> <li>Use scientific names of plants.</li> </ul>						
			Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test worksheet:	
1							
2						Number of Dominant Species	
3						That Are OBL, FACW, or FAC:	2 (A)
4							
5						Total Number of Dominant	
				= Total Cover		Species Across All Strata:	3 (B)
Qualizat/Ohash Otast							
-	um (Plot size: 15' radius)					Percent of Dominant Species	070/ (A/D)
1. 2.						That Are OBL, FACW, or FAC:	(A/B)
-							
3 4						Prevalence Index worksheet:	
4 5.						Prevalence index worksheet:	
5.				= Total Cover		Total % Cover of:	Multiply by:
				= Total Cover		That Are OBL, FACW, or FAC:	A/B
Herb Stratum (Plot	size: 5' radius)					OBL species	x1 =
1. Poa pratensis			65%	Yes	FAC	FACW species 15%	x2 = 0.3
2. Schedonorus ar	rundinaceus		20%	Yes	FACU	FAC species 70%	x3 = 2.1
3. Apocynum cann			5%	No	FAC	FACU species 22%	x4 = 0.88
4. Securigera varia			2%	No	UPL	UPL species 2%	x5 = 0.1
5. Taraxacum offic	cinale		2%	No	FACU	Column Totals: 1.09	(A) 3.38 (B)
6.					- <u> </u>		
7.						Prevalence Index = B/	A = 3.10
8.							
9.							
10.						Hydrophytic Vegetation Indicat	ors:
11.							
12.						1-Rapid Test for Hydroph	nytic Vegetation
13.						X 2-Dominance Test is >50	)%
14.						3-Prevalence Index is ≤3	.0 <sup>1</sup>
15.						4-Morphological Adaptati	ions <sup>1</sup> (Provide supporting
16.						data in Remarks or on a	a separate sheet)
17.						Problematic Hydrophytic	vegetation <sup>1</sup> (Explain)
18							
19						<sup>1</sup> Indicators of hydric soil and wetla	and hydrology must
20.						be present, unless disturbed or pr	roblematic.
			94%	= Total Cover			
<b>-</b>							
Woody Vine Stratur	n (Plot size: 30' radius)					Hydrophytic	
1. Vitis riparia			15%	Yes	FACW	Vegetation	
2						Present? Yes	X No
			15%	= Total Cover			
						<u> </u>	
	photo numbers here or on a separate sheet.) able to be identified despite mowing.						

Profile Desc	ription: (Describe to the	depth needed	to document the ind	licator or con	firm the ab	sence of inc	dicators.)	
Depth	Matrix			edox Features	1			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16"	10YR 3/3	100					Silt Loam	
16-24"	10YR 4/2	95	10YR 6/4	5	С	M	Silty Clay Loam	
<sup>1</sup> Type: C=C	Concentration, D=Depletion	n. RM=Reduced	Matrix, CS=Covered	or Coated San	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil I		<u>,                                    </u>					dicators of Hydric \$	
Histoso	ol (A1)			ed Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic E	pipedon (A2)		Sandy Redo				Very Shallo	w Dark Surface (F22)
	Histic (A3)		Stripped Mat	. ,			Other (Expl	ain in Remarks)
	en Sulfide (A4)		Dark Surface	. ,				
	ed Layers (A5)			ky Mineral (F1)				
	luck (A10) ad Balaw Dark Surface (A			ed Matrix (F2)				
	ed Below Dark Surface (A Dark Surface (A12)	11)	Depleted Ma	atrix (F3) Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been updated to
	Mucky Mineral (S1)			ark Surface (F6)	7)			e Field Indicators of Hydric Soils
	lucky Peat or Peat (S3)		Redox Depre	-	)			States, Version 8.0, 2016.
								,
	.ayer (if observed):							
Type: Depth (ii	inchae).					Hydric S	oil Present?	Yes No X
Remarks:							Ultresent	
	s indicators were observe							
HYDROL	OGY							
r	drology Indicators:							
-	cators (minimum of one is	required: check	all that apply)				Secondary Indicat	ors (minimum of two required)
	e Water (A1)	<u>.</u>		ed Leaves (B9	)			l Cracks (B6)
High W	ater Table (A2)		Aquatic Faur	na (B13)			Drainage Pa	atterns (B10)
Saturat	tion (A3)		True Aquatic	c Plants (B14)			Dry-Seasor	Water Table (C2)
	Marks (B1)		Hydrogen St	ulfide Odor (C1	1)		Crayfish Bu	
	ent Deposits (B2)			izospheres on	0	3 (C3)		/isible on Aerial Imagery (C9)
	eposits (B3)			Reduced Iron				Stressed Plants (D1)
	lat or Crust (B4)			Reduction in Ti	illed Soils (C	;6)		c Position (D2)
	posits (B5)	(~~)	Thin Muck S	. ,			FAC-Neutra	al Test (D5)
	tion Visible on Aerial Imag ly Vegetated Concave Su			'ell Data (D9) vin in Romarks)	<b>`</b>			
	ly Végetated Concave Su	пасе (во)		ain in Remarks)	)			
Field Observ	ations:							
Surface Wate		Yes No X		·				
Water Table		Yes No X		·				
Saturation Pr		Yes No X	X Depth (inches	s): >18"	Wetlan	d Hydrolog	y Present?	Yes NoX
(includes cap	corded Data (stream gau	ao monitorina y	und serial photos prev	vious inspectio	ne) if availa	hla		
Describe re-	Colueu Dala (Sileani yuu	Je, mornoring n		/IOus inspection	115), 11 avana	DIE.		
Remarks:								
	/drology was observed.							

Project/Site:	CTH KR, CTH H to Old Green	Bay Road					City/County	Racine County		s	Sampling Date:	7/17/2018	
Applicant/Owner:	Wisconisn Dept. of Transporta	tion					State	e: WI	Sampling Point	:	DP-45		
Investigator(s):	K. Carlson, E. Englund							Section, Townsh	ip, Range: TWP 3N,	RNG 22E, SEC	35		
Landform (hillslope	, terrace, etc.):	Toeslope						Loc	al relief (concave, con	ivex, none): <u>co</u>	ncave		
Slope (%):	1% Lat	:		42.672279			Long:	-	87.862727		Datum: NAD	83 UTM16N	
Soil Map Unit Nam	e: MzdB2 - Ozaukee silt loam, 2 t	o 6 percent slopes	, eroded							NWI classifica	ation: None	)	
Are climatic / hydro	ologic conditions on the site typica	al for this time of ye	ear?				Yes	X No	(If no, explain	in Remarks.)			
Are Vegetation	N , Soil	N	, or Hydro	logy	N significar	ntly dis	turbed?	Are "Norm	al Circumstances" pre	sent?	Yes X	No	
Are Vegetation	N , Soil	N	, or Hydro	logy	N naturally	proble	ematic?	(If needed	, explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site	map showing	sampling	point locat	ions, transects	, imp	ortant featur	es, etc.					
	getation Present?		Yes	Х	No			Sampled Ar					
Hydric Soil Pres			Yes	Х	No		within	n a Wetland?		Yes x	No		
Wetland Hydrol	logy Present?		Yes	Х	No		-						
Remarks: WETS analysis der	termined that the antecedent prec	ipitation conditions	s were norma	I. The feature	is a wooded swamp	betwe	een a subdivision	and agricultural la	and.				
VEGETATION	Use scientific names of	f plants.							Г				
Tree Stratum (Plot	size: 30' radius)				Abs % C		Dominant Species?	Indicator Status	Dominance Test	workshoot			
1. Populus deltoid					20		Yes	FAC	Dominance rest	NOTKSHEEL.			
2. Salix nigra					20		Yes	OBL	Number of Domina	nt Species			
3.									That Are OBL, FAG	-	7	(A)	
4.							_						
5.									Total Number of De	ominant			
					40	1%	= Total Cover		Species Across All	Strata:	7	(B)	
	tum (Plot size: 15' radius)								Percent of Domina				
1. Cornus racemo	osa				10		Yes	FAC	That Are OBL, FAC	W, or FAC:	100%	(A/B)	
2. Salix interior					5	%	Yes	FACW					
3					·			· <u> </u>	Brovelen es Index	warkahaat			
4 5.								·	Prevalence Index	Norksheet:			
0.					15	%	= Total Cover		Total % C	over of:	Multi	ply by:	
							-		That Are OBL, FAC			A/B	
Herb Stratum (Plot	t size: 5' radius)								OBL species	60%	x1 =	0.6	
1. Typha X glauca	a				40	1%	Yes	OBL	FACW species	45%	x2 =	0.9	
2. Phalaris arundi	inacea				25	%	Yes	FACW	FAC species	30%	x3 =	0.9	
3.									FACU species		x4 =		
4								·	UPL species		x5 =		
5									Column Totals:	1.35	(A)	2.4	(B)
6								· <u> </u>					
7									Prevale	nce Index = B/A	A =	.78	
o					·			· <u> </u>	-				
3 10.								· <u> </u>	Hydrophytic Vege	atation Indicate	ors.		
11.					· ·			·	nya opnyao rogi	in in in a loan			
12.								· <u> </u>	1-Rapid T	est for Hydroph	vtic Vegetation		
13.										nce Test is >50			
14.							_		x 3-Prevaler	nce Index is ≤3.	0 <sup>1</sup>		
15.									4-Morpho	logical Adaptatio	ons <sup>1</sup> (Provide si	upporting	
16.									data in R	emarks or on a	separate sheet	t)	
17.									Problema	tic Hydrophytic	Vegetation <sup>1</sup> (E	xplain)	
18													
19									<sup>1</sup> Indicators of hydri	soil and wetlar	nd hydrology m	lust	
20									be present, unless	disturbed or pro	oblematic.		
					65	%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)								Hydrophytic				
1. Vitis riparia					15	%	Yes	FACW	Hydrophytic Vegetation				
2.									Present?	Yes	X No		
·					15	%	= Total Cover	·	1		•		
-	photo numbers here or on a sep opy allows for emergent vegetativ												

Depth	Matrix		o document the indi	dox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5"	10YR 3/2	100			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Sandy Loam	Romano
			10VD 5/6	10	С			
5-11"	10YR 6/2	90	10YR 5/6	10		<u>M</u>	Clay Loam	
11-24"	10YR 3/2	95	10YR 5/6	5	С	M	Clay	
				·				
				·				
	Concentration, D=Depletion	, RM=Reduced N	/latrix, CS=Covered o	or Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=N	Natrix.
Hydric Soil I						Test In	ndicators of Hydric S	
Histoso			Sandy Gleyed					ese Masses (F12)
	Epipedon (A2)		Sandy Redox					v Dark Surface (F22)
	Histic (A3)		Stripped Matr				Other (Expla	in in Remarks)
	jen Sulfide (A4)		Dark Surface					
	ed Layers (A5)		Loamy Mucky					
	luck (A10) ed Below Dark Surface (A1	14)	Loamy Gleye	. ,				
·		1)	X Depleted Mat Redox Dark S				<sup>3</sup> The hydric ceil ind	instars have been undeted to
	Dark Surface (A12) Mucky Mineral (S1)			Surface (F6) k Surface (F7	<b>`</b>		-	icators have been updated to Field Indicators of Hydric Soils
	fucky Peat or Peat (S3)		Redox Depre	-	)		tates, Version 8.0, 2016.	
				3310113 (1 0)			in the onited of	
	_ayer (if observed):							
Type:	· · · · · · · ·							No. V No.
Depth (i	inches):					Hydric S	Soil Present?	Yes <u>X</u> No
	<u> </u>							
HYDROL								
•	drology Indicators:							
	cators (minimum of one is r e Water (A1)	equired: check a	If the set is set of A					
				d Laguag (DO)	A			ors (minimum of two required)
High W	(aton Table (AO)		Water-Staine	d Leaves (B9)	)		Surface Soil	Cracks (B6)
	/ater Table (A2)		Water-Staine Aquatic Faun	a (B13)	)		Surface Soil Drainage Pa	Cracks (B6) tterns (B10)
Saturat	tion (A3)		Water-Staine Aquatic Fauna True Aquatic	a (B13) Plants (B14)			Surface Soil Drainage Pa Dry-Season	Cracks (B6) tterns (B10) Water Table (C2)
Saturat Water I	tion (A3) Marks (B1)		Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul	a (B13) Plants (B14) Ifide Odor (C1	)	o (C2)	Surface Soil Drainage Pa Dry-Season Crayfish Bur	Cracks (B6) tterns (B10) Water Table (C2) rows (C8)
Saturat Water I Sedime	tion (A3) Marks (B1) ent Deposits (B2)		Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I	) Living Root	s (C3)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Saturat Water I Sedime Drift De	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B14) Ifide Odor (C1 zospheres on I Reduced Iron	) Living Root (C4)		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1)
Saturat Water I Sedime Drift De X Algal M	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R	a (B13) Plants (B14) lfide Odor (C1 cospheres on l Reduced Iron Reduction in Ti	) Living Root (C4)		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5)	ry (B7)	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su	a (B13) Plants (B14) lfide Odor (C1 cospheres on l Reduced Iron Reduction in Ti urface (C7)	) Living Root (C4)		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) lfide Odor (C1 cospheres on l Reduced Iron Reduction in Ti urface (C7)	) Living Root (C4) Iled Soils ((		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image		Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9)	) Living Root (C4) Iled Soils ((		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ely Vegetated Concave Sur vations:	face (B8)	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) Ifide Odor (C1 zospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks)	) Living Root (C4) Iled Soils ((		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ely Vegetated Concave Sur vations: ter Present? Y	face (B8) /es No <u>_X</u>	Water-Staine Aquatic Fauna True Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 zospheres on I Reduced Iron Reduction in Ti Irface (C7) ell Data (D9) n in Remarks) ): <u>N/A</u>	) Living Root (C4) Iled Soils ((		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Water Water Table	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: vations: Present? Y	face (B8) /esNoX /esNoX	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) : <u>N/A</u> ): <u>N/A</u>	) Living Root (C4) Iled Soils ((	C6)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: ter Present? Y Present? Y	face (B8) /es No <u>_X</u>	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) : <u>N/A</u> ): <u>N/A</u>	) Living Root (C4) Iled Soils ((	C6)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: ter Present? Y Present? Y resent? Y billary fringe)	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: ter Present? Y Present? Y	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: ter Present? Y Present? Y resent? Y billary fringe)	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: ter Present? Y Present? Y resent? Y billary fringe)	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u>	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Re	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image ly Vegetated Concave Sur vations: ter Present? Y Present? Y resent? Y billary fringe)	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u> ye, monitoring we	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Re	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image by Vegetated Concave Sur vations: ver Present? Y Present? Y resent? Y ecorded Data (stream gauge	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u> ye, monitoring we	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Saturat Water I Sedime Drift De X Algal M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Re	tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Image by Vegetated Concave Sur vations: ver Present? Y Present? Y resent? Y ecorded Data (stream gauge	face (B8) Yes <u>No X</u> Yes <u>No X</u> Yes <u>No X</u> ye, monitoring we	Water-Staine Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) Ifide Odor (C1 cospheres on I Reduced Iron Reduction in Ti urface (C7) ell Data (D9) n in Remarks) 	) Living Root (C4) Iled Soils ((	C6) nd Hydrolog	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/Count	ty: Racine County		S	ampling Date: 7/	17/2018
Applicant/Owner:	Wisconisn Dept. of Transportation				te: WI	Sampling Point		DP-46	
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	p, Range: TWP 3N,	RNG 22E, SEC	35	
Landform (hillslope,						al relief (concave, co			
Slope (%):	5% Lat:	42.672254		Long:	-	37.862744	· · · -	Datum: NAD83	UTM16N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slopes	s, eroded					NWI classifica	ation: None	
	logic conditions on the site typical for this time of y			Yes	s X No	(If no, explain	_		
Are Vegetation	N , Soil N	, or Hydrology N	significantly dis			al Circumstances" pre		Yes X No	c
Are Vegetation	N , Soil N	, or Hydrology N	naturally proble		(If needed,	explain any answers	in Remarks.)		
SUMMARY OF	FINDINGS Attach site map showing	sampling point location	ns, transects, imp	ortant featu	res, etc.				
	getation Present?	Yes	No x		e Sampled Are	a			
Hydric Soil Pres	5	Yes	No X	-	in a Wetland?		Yes	No x	
Wetland Hydrold	ogy Present?	Yes	No X	_					-
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	is were normal. The point is alo	ng a road.						
VEGETATION -	Use scientific names of plants.								
F 0: 1 (0) 1			Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30 radius)		% Cover	Species?	Status	Dominance Test	worksheet:		
1. Juglans nigra			15%	Yes	FACU	Number of Design			
2. 3.						Number of Domina That Are OBL, FA		3	(4)
4.						That Are OBL, FAG	JW, OFFAC.	3	(A)
4 5.						Total Number of D	ominant		
··			15%	= Total Cover		Species Across Al		6	(B)
			1070	- Total Cotor		openie nerece na	onata		(2)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	Int Species		
1. Rhamnus catha	artica		10%	Yes	FAC	That Are OBL, FAG		50%	(A/B)
2.									
3.									
4.						Prevalence Index	worksheet:		
5.									
			10%	= Total Cover		Total % C		Multiply	
						That Are OBL, FAC	W, or FAC:		A/B
Herb Stratum (Plot	size: 5' radius)	_				OBL species		x1 =	
<ol> <li>Poa pratensis</li> <li>Phleum pratens</li> </ol>			25%	Yes Yes	FAC FACU	FACW species	15% 35%	_	0.3
3. Cirsium arvense			10%	Yes	FACU	FAC species FACU species	35%		1.4
4. Euthamia grami			5%	No	FACW	UPL species	5%		0.25
5. Daucus carota			5%	No	UPL	Column Totals:	0.90	(A)	3 (B)
6.									()
7.						Prevale	ence Index = B/A	A = 3.33	3
8.									
9.									
10				<u> </u>		Hydrophytic Veg	etation Indicato	ors:	
11									
12.						1-Rapid T	est for Hydrophy	tic Vegetation	
13							ince Test is >50%		
14							nce Index is ≤3.0		
15								ons <sup>1</sup> (Provide supp	oorting
16.							emarks or on a s	separate sheet) Vegetation <sup>1</sup> (Expl	loin)
17						F10bleIIIa		vegetation (Expi	airij
18 19.						<sup>1</sup> Indicators of hydri	c soil and wetlar	nd bydrology mus	<b>.</b> t
20.						be present, unless			,
20.			55%	= Total Cover		be present, unless	distuibed of pro	biematic.	
			0070						
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic			
1. Vitis riparia			10%	Yes	FACW	Vegetation			
2.						Present?	Yes	No X	
			10%	= Total Cover					
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) milar throughout.								

	iption: (Describe to the	e depth neede			firm the ab	sence of ir	ndicators.)		
Depth	Matrix			edox Features	<b>T</b>	. 2		-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks
0-6"	10YR 5/4	100				·	Loam		
6-14"	10YR 6/4	100					Clay Loam		
14-20"	10YR 6/4	92	2.5YR 5/1	6	D	М	Clay		
			7.5YR 5/6	2	С	М	Clay		
		·							
<sup>1</sup> Type: C=C	oncentration, D=Depletio	n, RM=Reduce	ed Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.	
Hydric Soil I			· · · ·				dicators of Hydric \$		
Histoso	l (A1)		Sandy Gley	ed Matrix (S4)			Iron-Manga	nese Masses (F12)	
Histic E	pipedon (A2)		Sandy Redo	ox (S5)			Very Shallo	w Dark Surface (F22	2)
Black H	istic (A3)		Stripped Ma	atrix (S6)			Other (Expl	ain in Remarks)	
Hydrog	en Sulfide (A4)		Dark Surfac	ce (S7)					
Stratifie	d Layers (A5)		Loamy Muc	ky Mineral (F1)					
2 cm M	uck (A10)		Loamy Gley	/ed Matrix (F2)					
Deplete	d Below Dark Surface (A	.11)	Depleted M	atrix (F3)					
Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil inc	dicators have been u	updated to
Sandy M	/lucky Mineral (S1)		Depleted Da	ark Surface (F7	7)		comply with the	e Field Indicators of	Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Depi	ressions (F8)			in the United S	States, Version 8.0,	2016.
Restrictive L	ayer (if observed):								
Туре:	, ,								
Depth (ii	nches):					Hydric S	Soil Present?	Yes	No X
HYDROL	OGY								
Wetland Hyd	rology Indicators:								
	ators (minimum of one is	required: chec	k all that apply)					ors (minimum of two	o required)
Surface	Water (A1)		Water-Stair	ned Leaves (B9	))		Surface Soi	l Cracks (B6)	
High W	ater Table (A2)		Aquatic Fau	ına (B13)			Drainage Pa	atterns (B10)	
Saturati	on (A3)		True Aquati	c Plants (B14)			Dry-Seasor	Water Table (C2)	
Water M	/arks (B1)		Hydrogen S	Sulfide Odor (C	1)		Crayfish Bu	rrows (C8)	
	nt Deposits (B2)			nizospheres on	0	s (C3)		isible on Aerial Ima	
Drift De	posits (B3)		Presence of	f Reduced Iron	(C4)		Stunted or S	Stressed Plants (D1)	)
	at or Crust (B4)			Reduction in T	illed Soils (0	26)		c Position (D2)	
	posits (B5)			Surface (C7)			FAC-Neutra	al Test (D5)	
	on Visible on Aerial Imag			/ell Data (D9)	<b>、</b>				
Sparsel	y Vegetated Concave Su	rface (B8)	Other (Expla	ain in Remarks	)				
Field Observ	ations:								
Surface Wate	er Present?	Yes No	X Depth (inche	s): N/A					
Water Table	Present?	Yes No	X Depth (inche	s): >18"					
Saturation Pr	esent?	Yes No	X Depth (inche	s): >18"	Wetlan	d Hydrolog	gy Present?	Yes	<u>No X</u>
(includes cap	illary fringe)								
Describe Re	corded Data (stream gau	ge, monitoring	well, aerial photos, pre	vious inspectio	ns), if availa	ble:			
Remarks:									
No wetland hy	drology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County:	Racine County		S	ampling Date: 7/18	8/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point		DP-47	
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N,			
Landform (hillslope,						al relief (concave, cor			
Slope (%):	1% Lat:	42.674282		Long:		87.86458	vex, none). <u>-001</u>	Datum: NAD83 U	TM16N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slop			Long.		01.00400	NWI classifica		
-	logic conditions on the site typical for this time of			Yes	X No	(If no, explain	-		
	5 N	•		-				Vee V Ne	
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist			al Circumstances" pre		Yes X No	
Are Vegetation	N, Soil N	, or Hydrology N	naturally problem			explain any answers	in Remarks.)		
	FINDINGS Attach site map showin	g sampling point locations							
, , , ,	getation Present?	Yes X	No		Sampled Are	ea			
Hydric Soil Pres		Yes x	No	within	a Wetland?		Yes x	No	
Wetland Hydrold	ogy Present?	Yes <u>x</u>	No						
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	ons were normal. The feature is a r	roadside ditch.						
VEGETATION ·	Use scientific names of plants.					1			
Tree Stratum (Plot	size: 30' radius)		Absolute	Dominant Species 2	Indicator	Dominance Test	verkeheet		
1.	size. So radiusy		% Cover	Species?	Status	Dominance Test	vorksneet:		
2.						Number of Domina	nt Species		
3.						That Are OBL, FAC		1	(A)
4						marrie obe, rra	w, or 17.0.		
5.						Total Number of Do	minant		
J				= Total Cover		Species Across All		1	(B)
							onala.	·	(2)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	nt Species		
1.						That Are OBL, FAC		100%	(A/B)
2.									
3.									
4.						Prevalence Index	worksheet:		
5.									
-				= Total Cover		Total % C	over of:	Multiply b	ov:
						That Are OBL, FAC			A/B
Herb Stratum (Plot	size: 5' radius)					OBL species	5%	x1 = 0.0	)5
1. Phalaris arundii	nacea	_	75%	Yes	FACW	FACW species	75%	x2 = 1.5	5
2. Rumex crispus			10%	No	FAC	FAC species	12%	x3 = 0.3	36
3. Calamagrostis	canadensis		5%	No	OBL	FACU species		x4 =	
4. Poa pratensis			2%	No	FAC	UPL species		x5 =	
5.						Column Totals:	0.92	(A) 1.9	91 (B)
6.									
7.						Prevale	nce Index = B/A	. = 2.08	
8.									
9.									
10.						Hydrophytic Vege	tation Indicato	vrs:	
11.									
12.						X 1-Rapid T	est for Hydrophy	tic Vegetation	
13.						X 2-Domina	nce Test is >50%	%	
14.						X 3-Prevaler	nce Index is ≤3.0	) <sup>1</sup>	
15.						4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provide suppo	rting
16.						data in R	emarks or on a s	separate sheet)	
17.						Problema	ic Hydrophytic	Vegetation <sup>1</sup> (Explain	n)
18.									
19.						<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrology must	
20.						be present, unless	disturbed or pro	blematic.	
			92%	= Total Cover					
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic			
1						Vegetation			
2						Present?	Yes X	<	
				= Total Cover		1			
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.								

Depth (inches)			Ro	dox Features				
· · · · · · ·	Matrix Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	_ Texture	Remarks
0.00"			· · ·					Itelliaiks
0-20"	10YR 3/1	93	5YR 4/6	5	<u> </u>	M	Clay Loam	
•	· ·		10YR 5/8	2	С	M	Clay Loam	
20-26"	10YR 6/2	90	10YR 5/8	10	С	M	Clay	
	oncentration, D=Depletion,	RM=Reduced	Matrix, CS=Covered	or Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Ma	atrix.
Hydric Soil In						Test li	ndicators of Hydric So	
Histosol				ed Matrix (S4)				se Masses (F12)
	pipedon (A2)		Sandy Redo					Dark Surface (F22)
Black Hi			Stripped Ma				Other (Explain	in Remarks)
	en Sulfide (A4)		Dark Surface					
	d Layers (A5)			ky Mineral (F1)				
	ick (A10)			ed Matrix (F2)				
	d Below Dark Surface (A11	1)	Depleted Ma				3 <b>The Local States of the State</b>	atom have have so det at
	ark Surface (A12)			Surface (F6)	7)			ators have been updated to
	lucky Mineral (S1)			ark Surface (F7	()			Field Indicators of Hydric Soils
	icky Peat or Peat (S3)		X Redox Depr	essions (F8)			In the United Sta	tes, Version 8.0, 2016.
	ayer (if observed):							
Type: Depth (in							Soil Present?	Yes X No
	-							
HYDROLC	DGY							
Wetland Hyd	rology Indicators:	aquired: check	all that apoly)				Secondary Indicator	s (minimum of two required)
Wetland Hydi Primary Indica	rology Indicators: ators (minimum of one is re	equired: check		ed Leaves (B9	)			s (minimum of two required) Cracks (B6)
Primary Indica Surface	rology Indicators: ators (minimum of one is re Water (A1)	equired: check	Water-Stain	,	)		Surface Soil C	Cracks (B6)
Wetland Hydr Primary Indica Surface High Wa	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2)	equired: check	Water-Stain	na (B13)	)		Surface Soil C	cracks (B6) erns (B10)
Wetland Hydr Primary Indica Surface High Wa Saturatic	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3)	equired: check	Water-Stain Aquatic Fau True Aquatic	na (B13) c Plants (B14)			Surface Soil C Drainage Patt Dry-Season W	cracks (B6) erns (B10) /ater Table (C2)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) farks (B1)	equired: check	Water-Stain Aquatic Faur True Aquatic Hydrogen St	na (B13)	)	s (C3)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro	Cracks (B6) erns (B10) /ater Table (C2) wws (C8)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3)	equired: check	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi	na (B13) c Plants (B14) ulfide Odor (C1	) Living Root	s (C3)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis	cracks (B6) erns (B10) /ater Table (C2)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3)	equired: check	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on	) Living Root (C4)		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	equired: check	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi	na (B13) Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T	) Living Root (C4)		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	na (B13) Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T	) Living Root (C4)		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	γ (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T surface (C7)	) Living Root (C4) illed Soils ((		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) boosits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager / Vegetated Concave Surfa	γ (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T curface (C7) fell Data (D9)	) Living Root (C4) illed Soils ((		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) ht Deposits (B2) boosits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager v Vegetated Concave Surfa	γ (B7) ace (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks)	) Living Root (C4) illed Soils ((		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) ht Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager / Vegetated Concave Surfa ations: r Present? Ye	y (B7) ace (B8) es NoX	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u>	) Living Root (C4) illed Soils ((		Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) tarks (B1) nt Deposits (B2) bosits (B3) at or Crust (B4) bosits (B5) on Visible on Aerial Imager / Vegetated Concave Surfa ations: r Present? Ye	y (B7) ace (B8) ≥sNoX	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u>	) Living Root (C4) illed Soils ((	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) att or Crust (B4) posits (B5) on Visible on Aerial Imager v Vegetated Concave Surfa ations: r Present? Ye essent? Ye	y (B7) ace (B8) es NoX	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u>	) Living Root (C4) illed Soils ((	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) att or Crust (B4) posits (B5) on Visible on Aerial Imager v Vegetated Concave Surfa ations: r Present? Ye essent? Ye	y (B7) ace (B8) 25 No 25 No 25 No	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager / Vegetated Concave Surfa ations: r Present? Ye Present? Ye essent? Ye llary fringe)	y (B7) ace (B8) 25 No 25 No 25 No	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager / Vegetated Concave Surfa ations: r Present? Ye Present? Ye essent? Ye llary fringe)	y (B7) ace (B8) 25 No 25 No 25 No	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) atter Table (A2) on (A3) Marks (B1) Int Deposits (B2) boosits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager v Vegetated Concave Surfa attions: r Present? Ye Present? Ye essent? Ye llary fringe) borded Data (stream gauge	y (B7) ace (B8) ≥sNoX ≥sNoX ≥sNoX	Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager / Vegetated Concave Surfa ations: r Present? Ye Present? Ye essent? Ye llary fringe)	y (B7) ace (B8) ≥sNoX ≥sNoX ≥sNoX	Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) atter Table (A2) on (A3) Marks (B1) Int Deposits (B2) boosits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager v Vegetated Concave Surfa attions: r Present? Ye Present? Ye essent? Ye llary fringe) borded Data (stream gauge	y (B7) ace (B8) ≥sNoX ≥sNoX ≥sNoX	Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) atter Table (A2) on (A3) Marks (B1) Int Deposits (B2) boosits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager v Vegetated Concave Surfa attions: r Present? Ye Present? Ye essent? Ye llary fringe) borded Data (stream gauge	y (B7) ace (B8) ≥sNoX ≥sNoX ≥sNoX	Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T Gurface (C7) 'ell Data (D9) ain in Remarks) s): <u>N/A</u> s): <u>N/A</u> s): <u>&gt;18"</u>	I) Living Root (C4) illed Soils (( ) Wetlar	C6)	Surface Soil C Drainage Patt Dry-Season W Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral T	Cracks (B6) erns (B10) /ater Table (C2) wws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) Fest (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		Si	ampling Dat	e: 7/18/20	18
Applicant/Owner:	Wisconisn Dept. of Transportation				e: WI	Sampling Point		DP-	_	
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	p, Range: TWP 3N,	RNG 22E, SEC	35		
Landform (hillslope,	terrace, etc.): Footslope				Loca	al relief (concave, cor	ivex, none): cor	ivex		
Slope (%):	10% Lat:	42.674276		Long:	-	7.864646		Datum: NA	AD83 UTM	16N
Soil Map Unit Name	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slopes,	eroded					NWI classifica	ition: No	one	
Are climatic / hydrol	logic conditions on the site typical for this time of year	ır?		Yes	X No	(If no, explain i	n Remarks.)			
Are Vegetation	N , Soil N	, or Hydrology N	significantly distu	irbed?	Are "Norma	al Circumstances" pre	sent?	Yes >	K_No	
Are Vegetation	N , Soil N	, or Hydrology N	naturally problem	natic?	(If needed,	explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing s	ampling point locations,	transects, impo	ortant featur	es, etc.					
Hydrophytic Veg	getation Present?	Yes	No x	Is the	e Sampled Are	a				
Hydric Soil Pres	sent?	Yes	No X	withi	n a Wetland?		Yes	No	х	
Wetland Hydrold	ogy Present?	Yes	No X							
Remarks: WETS analysis dete	ermined that the antecedent precipitation conditions	were normal. The point is on a li	near berm along a hig	ghway.						
VEGETATION -	Use scientific names of plants.					Г				
Tree Stratum (Plot s	size: 30' radius)		Absolute % Cover	Dominant Species 2	Indicator Status	Dominance Test	workshoot:			
1.			78 COVer	Species?	Status	Dominance rest	WOIKSHEEL.			
2.					·	Number of Domina	nt Species			
3.					·	That Are OBL, FAC	-	C	)	(A)
4.					·					( )
5.						Total Number of Do	ominant			
				= Total Cover	·	Species Across All	Strata:	2	1	(B)
<u>.</u>										
Sapling/Shrub Strate	tum (Plot size: 15' radius)					Percent of Dominar	nt Species			
1.						That Are OBL, FAC	W, or FAC:	09	%	(A/B)
2.					<u> </u>					
3.										
4.						Prevalence Index	worksheet:			
5.										
· · · · · · · · · · · · · · · · · · ·				= Total Cover		Total % C		M	ultiply by:	
Harb Stratum (Dist.	cize: 5' rediue)					That Are OBL, FAC	W, or FAC:	—		A/B
Herb Stratum (Plot			05%	N	FACU	OBL species		x1 =	0.4	
Cirsium arvense     Daucus carota	9		25%	Yes Yes	FACU UPL	FACW species FAC species	5% 5%	x2 = x3 =	0.1	
3. Sonchus arvens	sis		15%	Yes	FACU	FACU species	65%		2.6	
4. Melilotus officina			15%	Yes	FACU	UPL species	20%	x5 =	1	
5. Arctium minus			10%	No	FACU	Column Totals:	0.95	(A)	3.85	(B)
6. Poa pratensis			5%	No	FAC					
7. Phalaris arundin	nacea		5%	No	FACW	Prevale	nce Index = B/A	. =	4.05	
8.					·					
9.										
10.						Hydrophytic Vege	tation Indicato	rs:		
11.										
12.						1-Rapid Te	est for Hydrophy	tic Vegetati	on	
13.							nce Test is >50%			
14							ice Index is ≤3.0			
15							ogical Adaptatio			g
16					·		emarks or on a s			
17.					·		tic Hydrophytic '	regetation	(Explain)	
18					·	<sup>1</sup> Indicators of hydrid		d budrolog		
19									must	
20				Total Cover	·	be present, unless	disturbed or pro	blematic.		
			95%	= Total Cover	<u> </u>					
Woody Vine Stratun	m (Plot size: 30' radius)					Hydrophytic				
1.						Vegetation				
2.					·	Present?	Yes	No >	K	
				= Total Cover	·				-	
			·							
Remarks: (Include ) The vegetation is sir	photo numbers here or on a separate sheet.) imilar throughout.					•				

Depth         Marx         Redor Features           order         1007 R-33         100		ription: (Describe to th	e depth needed t			firm the ab	sence of in	dicators.)		
0-6*       100/R 4/3       100	-		0/			Turne <sup>1</sup>	12	Terture	Dem	
6-24"       10/R 3/4       100			·	Color (moist)	%	Туре	LOC		Reff	arks
Type:       CsConcentration. D=Dupleton. RM=Reduced Matrix. CS=Covered or Couted Stand Grains.       *Location. PL=Fore Lining. M=Matrix.         Hydric Soli Indicators?:       Test Indicators of Hydric Soli:       Test Indicators of Hydric Soli:         Histoc Epicedon (A2)       Sandy Gleyed Matrix (S4)       Uvery Shallow Dark Surface (F2)         Bisck Histo: (A3)       Singly Gleyed Matrix (S5)       Other (Explain in Remarks)         Hydrogon Sulids (A4)       Dark Surface (F7)       Other (Explain in Remarks)         Bisck Histo: (A3)       Dipted Dark Surface (F7)       Other (Explain in Remarks)         Bisck Histo: (A3)       Dark Surface (F7)       The hydric soli Indicators have been updated in Carry Mickly Merral (F1)         Depicted Bark Merral (S1)       Depicted Dark Surface (F7)       The hydric soli Indicators have been updated in Carry Mickly Merral (F3)         Basch Histo: Lawr (H1)       Depicted Dark Surface (F7)       The hydric Soli Indicators in we been updated in Carry Mickly Merral (F3)         Basch Histo: Carls:       Redox Depressions (F8)       The hydric Soli Indicators (minimum of one is required. Check all that apply)       Secondary Indicators (minimum of two required)         Type:       Durk Mark (F1)       Water-Stained Leaves (B1)       Dornage Patters (B1)         Surface Water (A1)       Hydric Soli Indicators (minimum of one is required. Check all that apply)       Secondary Indicators (minimum of two required)	0-6"	10YR 4/3	100					Loam		
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes	6-24"	10YR 3/4	100					Clay Loam		
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes										
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes										
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes										
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes										
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes								·		
Hydric Soll indicators:         Test Indicators of Hydric Solis:           Histore (A)         Sandy Glayed Matrix (S4)         IncoManganese Masses (F2)           Hatic Epipedon (A2)         Sandy Glayed Matrix (S6)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           Hydriges Sulfiel (A4)         Dark States (S7)         Other (E-plain in Remarks)           2 cm Mark (A10)         Dark States (F3)         Commy Marky Mineral (F1)           2 cm Mark (A10)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Matrix (F2)         Redox Dark Surface (F7)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on Marky Mineral (S1)           Sandy Marky Mineral (S1)         Depleted Dark Surface (F7)         on me United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Trype:         Hydric Soil Present?         Yes	1				·		2	·		
Histop (A)       Sandy Gleyed Matrix (S4)       Incom.Manganese Masses (F12)         Histop (A2)       Sandy Rodox (S5)       Vary Shallow Dark Surface (F2)         Black Histic (A3)       Dark Surface (S7)       Other (Explain in Remarks)         Hydrogen Sulfide (A4)       Dark Surface (S7)       Other (Explain in Remarks)         Stratified Layers (A5)       Loamy Mucky Mineral (F1)       Depleted Matrix (F2)         Depleted Balew Dark Surface (A11)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Solis         S of Mucky Mineral (S1)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Solis         S of Mucky Mineral (S1)       Depleted Dark Surface (F7)       comply with the Field Indicators 0 Hydric Solis         Type:	71	, 1	n, RM=Reduced I	Matrix, CS=Covered	or Coated Sar	d Grains.				
Histic Epipedon (A2)       Sandy Rodox (S5)       Very Shallow Dark Surface (F22)         Black Histic (A3)       Bitripped Matrix (S5)       Other (Explain in Remarks)         Hydrogen Sulfide (A4)       Learny Marky Mineral (F1)       Other (Explain in Remarks)         2 cm Muck (A10)       Learny Marky Mineral (F1)       Depleted Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)       Prepheted Below Dark Surface (F1)         Standy Muck (Mineral (S1)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Soli         5 cm Mucky Peat or Peat (S3)       Redox Dark Surface (F7)       orny with the Field Indicators are been updated to comply with the Field Indicators of Hydric Solis         Type:	-			Sandy Clave	d Motrix (SA)		resting	-		
Bitck Hatic (A3)       Bitipped Matrix (S3)       Other (Explain in Remarks)         Hydrogen Sulfide (A4)       Dark Surface (S7)       Dark Surface (S7)         2 or Muck (A10)       Loamy Gkeyed Matrix (F2)         Depleted Bokov Dark Surface (A11)       Depleted Dark Surface (F6)       *The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils in the United States, Version 8.0, 2016.         Restrictive Layer (If observed):       Type:										2)
Hydrogen Sulide (A)       Dark Surface (37)       The hydric soli indicators have been updated to comply with the Field Indicators have been updated to comply with the Field Indicators of Hydric Solis         Stratified Layers (A0)       Depleted Bdark (F2)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F6)         Stratified Layers (A10)       Depleted Dark Surface (F7)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         So m Mucky Peat or Peat (S3)       Redox Depressions (F8)         in the United States, Version 8.0, 2016.         Restrictive Layer (If observed):       Type:         Type:       Depleted Bark (F3)         Renarka:       No         No hydric solis indicators were observed.         HYDROLOGY         Watter (A1)       Watter-Stained Lawes (89)         Surface Water (A1)       Water-Stained Lawes (89)         Surface Water (A1)       Updage Sufface Orace (81)         Sufface Barce (B2)       Oxidized Phans (B13)         Sufface Barce (B2)       Oxidized Phans (B13)         Birdinace Repost										2)
Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)         5 cm Mucky Mineral (S1)       Depleted Matrix (F2)         S cm Mucky Mineral (S1)       Depleted Matrix (F2)         S cm Mucky Peat or Peat (S3)       Redox Dark Surface (F7)         Type:		· · /			. ,			Other (Exp	iain in Remarks)	
2 cm Muck (A10)       Learny Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F2)         Standy Mucky Mineral (S1)       Depleted Dark Surface (F7)       **The hydric soil indicators in hydric Soils in the United States, Version 8.0, 2016.         Restrictive Layer (if observed):       Type:					. ,					
Depleted Below Dark Surface (A11)       Depleted Mark (F3)         Thick Dark Surface (A12)       Redox Dark Surface (F6)       "The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soils</i> in the United States, Version 8.0, 2016.         Restrictive Layer (if observed):       Type:										
Image: Dark Surface (A12)       Redox Dark Surface (F6)       The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils in the United States, Version 8.0, 2016.         Restrictive Layer (if observed):       Type:		. ,								
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Soils in the United States, Version 8.0, 2016.         Restrictive Layer (If observed):       Type:			(11)					2		
is cm Mucky Peat or Peat (S3)										
Restrictive Layer (if observed):       Type:		•		·		7)				-
Type:	5 cm M	ucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United	States, Version 8.0,	2016.
Depth (inches):	Restrictive L	ayer (if observed):								
Remarks:         No hydric soils indicators were observed.         HyDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of two required)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         High Water Table (A2)       Aquatic Plants (B14)       Dry-Season Water (B10)         Saturation (A3)       True Aquatic Plants (B14)       Dry-Season Water (B10)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Saturation Visible on Aerial Imagery (C9)         Ino Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Inon Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Invadation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)         Surface Water Present?       Yes       No       X       Depth (Inches): <u>&gt; 18'</u> Water Table Present?       Yes       No       X       Depth (Inches): <u>&gt; 18'</u> Surface Water Present?       Yes       No       X       Depth (Inches): <u>&gt; 18'</u> Water Table Present?	Туре:									
No hydric soils indicators were observed.         Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       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)         Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Agal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Invadation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Fleid Observations:       Surface Water Present?       Yes       No       X         Sutaration Present?       Yes       No       X       Depth (inches): <u>&gt;18"</u> Wetland Hydrology Present?       Yes       No       X <td>Depth (i</td> <td>nches):</td> <td></td> <td></td> <td></td> <td></td> <td>Hydric S</td> <td>oil Present?</td> <td>Yes</td> <td>No X</td>	Depth (i	nches):					Hydric S	oil Present?	Yes	No X
Wetland Hydrology Indicators:       Primary Indicators (minimum of one is required: check all that apply)       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)         Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inon Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)         Surface Water Present?       Yes       No       X       Depth (inches):										
Primary Indicators (minimum of one is required: check all that apply)       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)         Saturation (A3)       True Aquatic Plants (B14)       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 or 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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       No       X         Sutration Present?       Yes       No         Yes       No       X         Depth (inches):       >18''         Viater Table Present?       Yes       No         Mater Table Present?       Yes       No <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (B10)         Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Adjal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       Geomorphic Position (D2)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       FAC-Neutral Test (D5)         Surface Water Present?       Yes       No       X         Water Table Present?       Yes       No       X         Mater Table Present?       Yes       No       X         Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         Deptrible Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:								L.		
High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (B10)         Saturation (A3)       True Aquatic Plants (B14)       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 or 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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)         Other (Explain in Remarks)       Other (Explain in Remarks)       Ves		,	required: check a	11 27					-	o required)
Saturation (A3)       True Aquatic Plants (B14)       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 or 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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)         Sutrace Water Present?       Yes       No       X         Water Table Present?       Yes       No       X         Mater Table Present?       Yes       No       X         Mater Table Present?       Yes       No       X         Includes capillary fringe)       Depth (inches): <a>18"</a> Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:					,	)				
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 or 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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X         Water Table Present?       Yes       No       X       Depth (inches):       >18"         Wetland Hydrology Present?       Yes       No       X       Mo       X         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Yes       No       X         Remarks:       Emarks:       Structure of Stream gauge, monitoring well, aerial photos, previous inspections), if available:       Stream gauge, monitoring well, aerial photos, previous inspections), if available:	High W	ater Table (A2)								
Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or 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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       No       X         Surface Water Present?       Yes       No         Yes       No       X         Depth (inches):       >18"         Water Table Present?       Yes       No         Yes       No       X         Depth (inches):       >18"         Water Table Present?       Yes       No         Saturation Present?       Yes       No         Depth (inches):       >18"         Water Table Present?       Yes       No         Saturation Present?       Yes       No         Depth (inches):       >18"       Wetland Hydrology Present?       Yes         No       X       Mo       X	Saturat	ion (A3)								
Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or 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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Ves				, , ,		,		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)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       FAC-Neutral Test (D5)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Field Observations:         Surface Water Present?       Yes       No       X         Water Table Present?       Yes       No       X         Saturation Present?       Yes       No       X         Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         Includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:					-	-	s (C3)			
Iron Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes         Sutrace Water Present?       Yes       No       X         Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       >18"         Gauge or Well Data (D9)       Wetland Hydrology Present?       Yes       No       X         Cincludes capillary fringe)       Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Drift De	posits (B3)		Presence of	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1	)
Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X         Water Table Present?       Yes       No       X       Depth (inches):       >18"         Water Table Present?       Yes       No       X       Depth (inches):       >18"         Saturation Present?       Yes       No       X       Depth (inches):       >18"         Generation Present?       Yes       No       X       Depth (inches):       >18"         Vetland Hydrology Present?       Yes       No       X       X         (includes capillary fringe)       Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:       X	Algal M	at or Crust (B4)		Recent Iron	Reduction in T	illed Soils (C	6)	Geomorph	ic Position (D2)	
Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X         Surface Water Present?       Yes       No       X       Depth (inches):       >18"         Water Table Present?       Yes       No       X       Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         Saturation Present?       Yes       No       X       Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Depth (inches), previous inspections), if available:       Remarks:       Remarks:	Iron De	posits (B5)		Thin Muck S	urface (C7)			FAC-Neutr	al Test (D5)	
Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Water Table Present?       Yes       No       X       Depth (inches):       >18"         Saturation Present?       Yes       No       X       Depth (inches):       >18"         Vincludes capillary fringe)       Ves       No       X       Depth (inches):       >18"         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Inundat	ion Visible on Aerial Ima	jery (B7)	Gauge or W	ell Data (D9)					
Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Water Table Present?       Yes       No       X       Depth (inches):       >18"         Saturation Present?       Yes       No       X       Depth (inches):       >18"         Saturation Present?       Yes       No       X       Depth (inches):       >18"         (includes capillary fringe)       Depth (inches):       >18"       Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Femarks:       Ves       Ves       Ves       Ves	Sparse	ly Vegetated Concave Se	urface (B8)	Other (Expla	in in Remarks	)				
Water Table Present?       Yes       No       X       Depth (inches):       >18"         Saturation Present?       Yes       No       X       Depth (inches):       >18"         (includes capillary fringe)       Ves       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Field Observ	vations:								
Water Table Present?       Yes       No       X       Depth (inches):       >18"         Saturation Present?       Yes       No       X       Depth (inches):       >18"         (includes capillary fringe)       Ves       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:	Surface Wat	er Present?	Yes No X	Depth (inches	): N/A					
Saturation Present?       Yes       No       X       Depth (inches): >18"       Wetland Hydrology Present?       Yes       No       X         (includes capillary fringe)       Depth (inches): >18"       Wetland Hydrology Present?       Yes       No       X         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:										
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:				_		Wetlan	d Hvdroloa	v Present?	Yes	No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:				Boptin (interior		Wollan	a riyarolog	y rocontr		X
Remarks:			iae monitorina we	ell aerial photos prev	ious inspectio	ns) if availal	nle:			
	December to	condou Data (choann ga	.go,	, denai prietee, pret						
No wetland hydrology was observed.	Remarks:									
	No wetland hy	drology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		S	ampling Dat	e: 7/18/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point		DP-	-	
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N,				
Landform (hillslope,						al relief (concave, cor				
Slope (%):	2% Lat:	42.671203		Long:		37.867524	1000, 1101107. 001		AD83 UTM1	6N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slope			Long.		51.001024	NWI classifica	-	one	
	logic conditions on the site typical for this time of			Voc	X No	(If no, explain	-	11011. 110	THE .	
			N	-					<	
Are Vegetation	N, Soil N	, or Hydrology	N significantly dist			al Circumstances" pre		Yes )	K_No	
Are Vegetation	N, Soil N	, or Hydrology	N naturally problem			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing	g sampling point locat	tions, transects, imp	ortant feature	es, etc.					
	getation Present?	Yes x	No		Sampled Are	ea				
Hydric Soil Pres		Yes x	No	within	n a Wetland?		Yes x	No		
Wetland Hydrold	bgy Present?	Yes <u>x</u>	No							
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	ns were normal. The feature	is a roadside ditch of catta	ils.						
VEGETATION	Use scientific names of plants.					1				
Tree Stratum (Plot	cizo: 20' rodius)		Absolute	Dominant	Indicator					
	size. 30 radius)		% Cover	Species?	Status	Dominance Test	worksheet:			
1						Number of Densing				
2				·		Number of Domina That Are OBL, FAC	-			( • )
3				·		That Are OBL, FAC	W, OF FAC.		(	(A)
4						Total Number of D				
5				= Total Cover		Total Number of Do Species Across All				
				= Total Cover		Species Across Air	Strata.		(	(B)
Sanling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominal	t Species			
1.						That Are OBL, FAC		10	<u>1%</u>	(A/B)
2.						mat Are OBL, FAC	W, OF FAG.	100	////	(A/B)
3.										
4.				·		Prevalence Index	vorkchoot			
4 5.						Frevalence index	WOIKSHEEL.			
5.				= Total Cover		Total % C	war of		ultiply by	
[				= Total Cover		Total % C That Are OBL, FAC			ultiply by:	A/B
Herb Stratum (Plot	size: 5' radius)					OBL species	95%	x1 =	0.95	
1. Typha X glauca			95%	Yes	OBL	FACW species	4%	x2 =	0.08	
2. Phalaris arundii			4%	No	FACW	FAC species	1%	x3 =	0.03	
3. Poa pratensis			1%	No	FAC	FACU species		x4 =		
4.						UPL species		x5 =		
5.				·		Column Totals:	1.00	(A)	1.06	(B)
6.				·				-``		
7.				·		Prevale	nce Index = B/A	. =	1.06	
8.				·						
9.				·						
10.						Hydrophytic Vege	tation Indicate	ors:		
11.						, , , , , , , , , , , , , , , , , , , ,				
12.				·		X 1-Rapid T	est for Hydrophy	tic Vegetati	on	
13.				·			nce Test is >50%			
14.				·			ice Index is ≤3.0			
15.				·		4-Morphol	ogical Adaptatic	ons¹ (Provid∉	supporting	I
16.				·		data in R	emarks or on a	separate sh	eet)	
17.				·			tic Hydrophytic			
18.										
19.						<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrolog	/ must	
20.						be present, unless	disturbed or pro	blematic.		
			100%	= Total Cover			•			
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic				
1.	— · · · · · · · · · · · · · · · · · · ·					Vegetation				
2.				·		Present?	Yes >	No		
				= Total Cover					-	
Remarks: (Include	photo numbers here or on a separate sheet.)					•				
The vegetation is si	milar throughout.									

	cription: (Describe to the	e depth needed to	o document the ind	licator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix			edox Features	1			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12"	10YR 2/1	100					Silt Loam	
12-20"	10YR 6/1	95	10YR 6/6	5	С	M	Silt Loam	
<b></b>				<b></b>				
							· ·	
		· · · · · · · · · · · · · · · · · · ·					· ·	
								_
<sup>1</sup> Tvpe: C=0	Concentration, D=Depletion	n. RM=Reduced N	Matrix. CS=Covered	or Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil		,	· · ·				dicators of Hydric	
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic E	Epipedon (A2)		Sandy Redo	ox (S5)			Very Shallo	w Dark Surface (F22)
	Histic (A3)		Stripped Mat	trix (S6)			Other (Expl	ain in Remarks)
	gen Sulfide (A4)		Dark Surface					
	ed Layers (A5)			ky Mineral (F1)				
	Nuck (A10)			ed Matrix (F2)				
·	ed Below Dark Surface (A	11)	Depleted Ma				a	
	Dark Surface (A12)			Surface (F6)			•	dicators have been updated to
	Mucky Mineral (S1)		·	ark Surface (F7	)			e Field Indicators of Hydric Soils
	/lucky Peat or Peat (S3)		Redox Depre	essions (Fo)			In the United S	States, Version 8.0, 2016.
	Layer (if observed):							
Type:						the data C		
Depth (	inches):					Hyaric S	ioil Present?	Yes <u>X</u> No
HYDROL	.OGY							
-	drology Indicators:							
-	cators (minimum of one is	required: check a						tors (minimum of two required)
	e Water (A1)			ed Leaves (B9	)			il Cracks (B6)
	Vater Table (A2)		Aquatic Faur					atterns (B10)
	tion (A3)			c Plants (B14)				Water Table (C2)
	Marks (B1)			ulfide Odor (C1		- (00)	Crayfish Bu	
	ent Deposits (B2) eposits (B3)			izospheres on Reduced Iron	-	3 (03)		√isible on Aerial Imagery (C9) Stressed Plants (D1)
	Mat or Crust (B4)			Reduction in Ti		191	X Geomorphi	
	eposits (B5)		Thin Muck S			,0,	X FAC-Neutra	
Inunda	tion Visible on Aerial Imag	ery (B7)	Gauge or W	ell Data (D9)				
	ely Vegetated Concave Su			ain in Remarks)	)			
Field Observ	vations:				T			
Surface Wat		Yes No X	Depth (inches	s): N/A				
Water Table		Yes X No X	Depth (inches	·				
Saturation P		Yes X No	Depth (inches	·	Wetlan	d Hydrolog	y Present?	Yes X No
(includes cap								
	ecorded Data (stream gau	ge, monitoring we	II, aerial photos, prev	vious inspection	ns), if availa	ble:		
Remarks:	and the bald outfood du	the second state						
The feature a	ppears to hold surface du	ing a portion of th	e growing season.					

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County:	Racine County		s	ampling Da	ate: 7/18/20	18
Applicant/Owner:	Wisconisn Dept. of Transportation				State	-	Sampling Point			P-50	
Investigator(s):	K. Carlson, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, cor	vex, none): col			
Slope (%):	3% Lat:	42.671211			Long:		87.86761			AD83 UTM1	16N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 perce							NWI classifica	ation: N	lone	
Are climatic / hydro	logic conditions on the site typical for this	time of year?			Yes	X No	(If no, explain i	n Remarks.)			
Are Vegetation	N , Soil	N , or Hydrology	N signific	antly distu	urbed?	Are "Norma	al Circumstances" pre	sent?	Yes	X No	
Are Vegetation	N , Soil	N , or Hydrology	N natura	lly problen	natic?	(If needed,	explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map sh	owing sampling point loc	ations, transec	ts, impo	ortant feature	es, etc.					
	getation Present?	Yes	No	Х		Sampled Are	a				
Hydric Soil Pres		Yes	No	X		a Wetland?		Yes	No	х	
Wetland Hydrol		Yes	No	x							
Remarks: WETS analysis det	termined that the antecedent precipitation of	conditions were normal. The point	is on the backside o	of a road s	houlder.						
VEGETATION	Use scientific names of plants										
Tree Streture (Diet	aizer 20' redive)			osolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		%	Cover	Species?	Status	Dominance Test	vorksheet:			
1			·								
2							Number of Domina	nt Species			
3.			·				That Are OBL, FAC	W, or FAC:		2	(A)
4.											
5.							Total Number of Do	minant			
					= Total Cover		Species Across All	Strata:		4	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Dominar	nt Species			
1.							That Are OBL, FAC		5	50%	(A/B)
2.			· · · · · · · · · · · · · · · · · · ·				,,	,			()
3.			·								
							Denvelop of the denve				
4.							Prevalence Index	vorksheet:			
5.											
					= Total Cover		Total % C		N	Aultiply by:	
							That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot	size: 5' radius)						OBL species		x1 =		
1. Cirsium arvens	e			20%	Yes	FACU	FACW species	10%	x2 =	0.2	
2. Vicia americana	а			20%	Yes	FACU	FAC species	30%	x3 =	0.9	
3. Ambrosia trifida	а			15%	Yes	FAC	FACU species	55%	x4 =	2.2	
4. Poa pratensis				15%	Yes	FAC	UPL species		x5 =		
5. Phalaris arundi	inacea			10%	No	FACW	Column Totals:	0.95	(A)	3.3	(B)
6. Arctium minus				10%	No	FACU					
7. Sonchus arven	sis			5%	No	FACU	Prevale	nce Index = B/A	A =	3.47	
8.											
<u> </u>											
3							Hydrophytic Vege	tation Indiants			
10							Hydrophytic vege	tation indicate	ns:		
11.											
12								est for Hydroph		tion	
13								nce Test is >50°			
14.								ce Index is ≤3.			
15.							4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provid	le supporting	g
16.							data in Re	emarks or on a	separate sl	neet)	
17.							Problema	ic Hydrophytic	Vegetation	<sup>1</sup> (Explain)	
18.											
19.							<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrolog	y must	
20.			· · · · · · · · · · · · · · · · · · ·				be present, unless	disturbed or pro	oblematic		
				95%	= Total Cover		bo procent, amooo		, biomatio.		
				9376	= Total Cover						
	m (Plot size: 30' radius)						Hydrophytic				
1			·				Vegetation				
2							Present?	Yes	No	X	
					= Total Cover						
	photo numbers here or on a separate she nowed in areas nearby.	et.)									

	ription: (Describe to the	e depth needeo			firm the ab	sence of in	dicators.)		
Depth	Matrix			dox Features	<b>T</b>	1 2	- -	Davis	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	narks
0-13"	10YR 4/3	100					Loam		
13-24"	10YR 5/3	93	10YR 6/1	5	C	M	Clay Loam		
			10YR 7/8	2	С	М	Clay Loam		
<sup>1</sup> Type: C=C	concentration, D=Depletion	n, RM=Reduced	d Matrix, CS=Covered	or Coated Sar	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.	
Hydric Soil I		,	, , , , , , , , , , , , , , , , , , ,				dicators of Hydric \$		
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)	
Histic E	pipedon (A2)		Sandy Redo	x (S5)			Very Shallo	w Dark Surface (F2	2)
Black H	listic (A3)		Stripped Mat	trix (S6)			Other (Expl	ain in Remarks)	
Hydrog	en Sulfide (A4)		Dark Surface	e (S7)					
Stratifie	ed Layers (A5)		Loamy Muck	y Mineral (F1)	1				
2 cm N	luck (A10)		Loamy Gleye	ed Matrix (F2)					
Deplete	ed Below Dark Surface (A	11)	Depleted Ma	atrix (F3)					
Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil ind	dicators have been u	updated to
Sandy	Mucky Mineral (S1)		Depleted Da	rk Surface (F7	7)		comply with the	e Field Indicators of	Hydric Soils
5 cm N	lucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	States, Version 8.0,	2016.
Restrictive L	ayer (if observed):								
Type:									
Depth (i	nches):					Hydric S	oil Present?	Yes	No X
HYDROL	OGY								
Wetland Hyd	drology Indicators:						<u>.</u>		
Primary Indic	ators (minimum of one is	required: check	call that apply)				Secondary Indicat	ors (minimum of two	o required)
Surface	e Water (A1)		Water-Staine	ed Leaves (B9	))		Surface Soi	l Cracks (B6)	
High W	ater Table (A2)		Aquatic Faur	na (B13)			Drainage Pa	atterns (B10)	
Saturat	ion (A3)		True Aquatic	Plants (B14)			Dry-Seasor	Water Table (C2)	
Water	Marks (B1)		Hydrogen Su	ulfide Odor (C	1)		Crayfish Bu	rrows (C8)	
Sedime	ent Deposits (B2)		Oxidized Rhi	zospheres on	Living Root	s (C3)	Saturation \	isible on Aerial Ima/	gery (C9)
Drift De	eposits (B3)		Presence of	Reduced Iron	(C4)		Stunted or S	Stressed Plants (D1)	)
Algal M	at or Crust (B4)		Recent Iron	Reduction in T	illed Soils (C	C6)	Geomorphi	c Position (D2)	
Iron De	posits (B5)		Thin Muck S	urface (C7)			FAC-Neutra	al Test (D5)	
Inundat	ion Visible on Aerial Imag	ery (B7)	Gauge or W	ell Data (D9)					
Sparse	ly Vegetated Concave Su	rface (B8)	Other (Expla	in in Remarks	)				
Field Observ	vations:								
Surface Wat	er Present?	res No	X Depth (inches	s): N/A					
Water Table	Present?	/es No	X Depth (inches	s): 10"					
Saturation P	resent?	res No	X Depth (inches	s): 8"	Wetlan	d Hydrolog	gy Present?	Yes	No X
(includes cap	oillary fringe)								
Describe Re	corded Data (stream gau	ge, monitoring	well, aerial photos, prev	ious inspectio	ns), if availa	ble:			
Remarks:									
No wetland hy	/drology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	ampling Date:	7/18/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point:		. 0 DP-51		
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N, F				
Landform (hillslope,						al relief (concave, con				
Slope (%):	2% Lat:	42.670229		Long:		7.867715	wex, none). 00	Datum: NAD	83 LITM16N	N
	e: SzB - Symerton loam, 2 to 6 percent slopes	42.010223		Long.			NWI classifica			<u>.</u>
	blogic conditions on the site typical for this time of y	(00r <sup>2</sup>		Yes	X No	(If no, explain i	-		-	
-			N	-			-		N- V	
Are Vegetation	N , Soil Y		N significantly distu			al Circumstances" pre		Yes	No X	_
Are Vegetation	N, Soil N		N naturally problem			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing	i sampling point locati	ons, transects, impo	rtant feature	es, etc.					
	getation Present?	Yes x	No		Sampled Are	a				
Hydric Soil Pres		Yes x	No	withir	n a Wetland?		Yes x	No		
Wetland Hydrole	ogy Present?	Yes x	No							
Remarks: WETS analysis det	termined that the antecedent precipitation condition	ns were normal. The feature is	s a roadside ditch of cattail	S.						
VEGETATION	Use scientific names of plants.									
			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test v	vorksheet:			
1										
2						Number of Dominar				
3.						That Are OBL, FAC	W, or FAC:	3	(A)	)
4										
5						Total Number of Do				
			:	= Total Cover		Species Across All	Strata:	3	(B)	)
-	tum (Plot size: 15' radius)					Percent of Dominar				
1. Salix interior			10%	Yes	FACW	That Are OBL, FAC	W, or FAC:	100%	(A/	/B)
2										
3.										
4.						Prevalence Index v	vorksheet:			
5.										
			10%	= Total Cover		Total % Co		Multi	iply by:	
						That Are OBL, FAC			A/E	3
Herb Stratum (Plot		_				OBL species	42%	x1 =	0.42	_
1. Phalaris arundi			50%	Yes	FACW	FACW species	65%	x2 =	1.3	_
2. Typha X glauca			40%	Yes	OBL	FAC species		x3 =		
3. Impatiens cape			5%	No	FACW	FACU species		x4 =		
4. Cicuta maculat	a		2%	No	OBL	UPL species	4.07	x5 =	4.70	(D)
5						Column Totals:	1.07	(A)	1.72	(B)
6			·			Describe	D/A		<b>64</b>	
7						Prevaler	nce Index = B/A	.=	.61	—
8					<u> </u>					
9					<u> </u>					
10					<u> </u>	Hydrophytic Vege	tation indicate	ors:		
11						Y ( Desid T				
12.						X 1-Rapid Te				
13.					<u> </u>	X 2-Dominar	ice Test is >50° ice Index is ≤3.0			
14					<u> </u>		ogical Adaptatio		upporting	
15.										
16.							emarks or on a ic Hydrophytic			
17					<u> </u>		lio riyulopriyilo	vegetation (E	spiairi)	
18.					<u> </u>	<sup>1</sup> Indicators of hydric	coil and wotla	d hydrology m	u ot	
19			·			-			usi	
20				Total Caura		be present, unless	uisturbed or pro	bolematic.		
			97% :	= Total Cover						
Weether Merel Other										
	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation	¥ `	/ N-		
2				Total Course		Present?	res	( <u>No</u>		
				= Total Cover						
Romarka: (Indust-	photo numbers here or on a concrete sheret )					Į				
The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.									

Depth <u>Matrix</u> inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup> Texture					
		LOC TEXLUIE	Remarks				
		· · · _					
Trace C. Consecutive D. Desleting DM Deduce			4-1				
Type: C=Concentration, D=Depletion, RM=Reduce ydric Soil Indicators <sup>3</sup> :	d Matrix, CS=Covered or Coated Sand Grains.	Location: PL=Pore Lining, M=I Test Indicators of Hydric S					
Histosol (A1)	Sandy Gleyed Matrix (S4)		nese Masses (F12)				
Histic Epipedon (A2)	Sandy Redox (S5)		v Dark Surface (F22)				
Black Histic (A3)	Stripped Matrix (S6)		ain in Remarks)				
Hydrogen Sulfide (A4)	Dark Surface (S7)	、	,				
Stratified Layers (A5)	Loamy Mucky Mineral (F1)						
2 cm Muck (A10)	Loamy Gleyed Matrix (F2)						
Depleted Below Dark Surface (A11)	Depleted Matrix (F3)						
Thick Dark Surface (A12)	Redox Dark Surface (F6)	<sup>3</sup> The hydric soil inc	licators have been updated to				
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	comply with the	e Field Indicators of Hydric Soils				
5 cm Mucky Peat or Peat (S3)	Redox Depressions (F8)	in the United S	tates, Version 8.0, 2016.				
estrictive Layer (if observed):							
Type: Riprap							
Type: <u>Riprap</u> Depth (inches): <u>0</u> emarks: bils were unable to be observed due to placement of		Hydric Soil Present?	Yes X No				
Type: <u>Riprap</u> Depth (inches): <u>0</u> emarks: bils were unable to be observed due to placement of		-					
Type: <u>Riprap</u> Depth (inches): <u>0</u> emarks: ils were unable to be observed due to placement of getation.		-					
Type: <u>Riprap</u> Depth (inches): 0 emarks: bils were unable to be observed due to placement of getation.		ndscape position, obvious wet	and hydrology, and hydrophytic				
Type: <u>Riprap</u> Depth (inches): 0 emarks: bils were unable to be observed due to placement of getation.  YDROLOGY /etland Hydrology Indicators: 'rimary Indicators (minimum of one is required: check	riprap. Soils are assumed to be hydric based on lar k all that apply)	ndscape position, obvious weth	and hydrology, and hydrophytic				
Type:       Riprap         Depth (inches):       0         emarks:       0         bils were unable to be observed due to placement of getation.         YDROLOGY         Vetland Hydrology Indicators:         trimary Indicators (minimum of one is required: check X	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9)	ndscape position, obvious wetl Secondary Indicat Surface Soi	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bils were unable to be observed due to placement of getation.         YDROLOGY         Vetland Hydrology Indicators:         trimary Indicators (minimum of one is required: check X         X Surface Water (A1)         X         High Water Table (A2)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13)	ndscape position, obvious wetl Secondary Indicat Surface Soil	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10)				
Type: Riprap Depth (inches): 0 emarks: bills were unable to be observed due to placement of agetation.   PyDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check X Surface Water (A1) X High Water Table (A2) X Saturation (A3)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	ndscape position, obvious wetl Secondary Indicat Surface Soil Drainage Pa	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         IVDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check of a structure (A1)         X       Surface Water (A1)         X       Saturation (A3)         Water Marks (B1)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1)	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish But	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of egetation.         IVDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check X         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (	Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bui C3) Saturation V	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial Imagery (C9)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         PYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check X         X Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4)	Adscape position, obvious wet Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bui C3) Saturation V Stunted or S	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial Imagery (C9) Stressed Plants (D1)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         PYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check character)         X         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         oils were unable to be observed due to placement of agetation.         IYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chectors)         X         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Adscape position, obvious wet Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bui C3) Saturation V Stunted or S	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         IYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chectors)         X         Surface Water (A1)         X         High Water Table (A2)         X         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)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9)	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         IYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chectors)         X         Surface Water (A1)         X         High Water Table (A2)         X         Saturation (A3)         Water Marks (B1)         Sediment Deposits (B2)         Drift Deposits (B3)         Algal Mat or Crust (B4)         Iron Deposits (B5)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         IYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chect         X         Surface Water (A1)         X         High Water Table (A2)         X         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 (B8)	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9)	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         bills were unable to be observed due to placement of agetation.         IVDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chect         X         Surface Water (A1)         X         High Water Table (A2)         X         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 (B8)         ield Observations:         Surface Water Present?	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Depth (inches): <u>Surface</u>	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				
Type:       Riprap         Depth (inches):       0         emarks:       0         oils were unable to be observed due to placement of agetation.         IYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chect         X         Surface Water (A1)         X         High Water Table (A2)         X         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 (B8)         Tield Observations:         Surface Water Present?       Yes X         No         Water Table Present?       Yes X	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Adscape position, obvious weth Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic X FAC-Neutra	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) 'isible on Aerial Imagery (C9) Stressed Plants (D1) : Position (D2) I Test (D5)				
Type:       Riprap         Depth (inches):       0         emarks:       0         oils were unable to be observed due to placement of agetation.         IYDROLOGY         Vetland Hydrology Indicators:         Primary Indicators (minimum of one is required: chect         X         Surface Water (A1)         X         High Water Table (A2)         X         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 (B8)         Tield Observations:         Surface Water Present?       Yes X No	riprap. Soils are assumed to be hydric based on lar k all that apply) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots ( Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) Depth (inches): Surface Depth (inches): Surface	Adscape position, obvious wetle Secondary Indicat Surface Soil Drainage Pa Dry-Season Crayfish Bur C3) Saturation V Stunted or S X Geomorphic	and hydrology, and hydrophytic ors (minimum of two required) I Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)				

Surface was present at time of survey.

Project/Site:	CTH KR, CTH H to Old Green Bay Road				Citv/Countv	: Racine County		s	ampling D	ate: 7/18/201	18
Applicant/Owner:	Wisconisn Dept. of Transportation				State	-	Sampling Point			-52	
Investigator(s):	K. Carlson, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, cor				
Slope (%):	8% Lat:	42.670172			Long:		7.867689	IVEX, HOHE).		AD83 UTM1	IEN
	e: SzB - Symerton loam, 2 to 6 percent slopes	42.010112			Long.			NWI classifica		None	
		2017			Vee	V No	(If no sympletic	-	<u>nuon.</u>	lone	
	logic conditions on the site typical for this time of y						(If no, explain				
Are Vegetation	N, Soil N			nificantly dist			al Circumstances" pre		Yes _	X_No	
Are Vegetation	N, Soil N	, or Hydrology		urally probler			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing	sampling point locat	ions, trans	ects, impo	ortant feature	es, etc.					
, , , ,	getation Present?	Yes	No	Х		Sampled Are	ea				
Hydric Soil Pres		Yes	No	Х	withir	n a Wetland?		Yes	No	Х	
Wetland Hydrold	ogy Present?	Yes	No_	Х							
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	s were normal. The point is	on the backsi	de of a road s	shoulder.						
VEGETATION -	- Use scientific names of plants.										
				Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		_	% Cover	Species?	Status	Dominance Test	worksheet:			
1						·					
2						. <u> </u>	Number of Domina	-			
3.							That Are OBL, FAC	CW, or FAC:		1 (	(A)
4					·						
5.							Total Number of Do				
					= Total Cover		Species Across All	Strata:		4	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Domina				
1. Acer negundo				5%	Yes	FAC	That Are OBL, FAC	CW, or FAC:	2	25%	(A/B)
2											
3.						. <u> </u>					
4.							Prevalence Index	worksheet:			
5.											
				5%	= Total Cover		Total % C		N	Multiply by:	
							That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot	size: 5' radius)	_					OBL species		x1 =		
1. Solidago canad				25%	Yes	FACU	FACW species	10%	x2 =	0.2	
2. Asclepias syriad				20%	Yes	FACU	FAC species	25%	x3 =	0.75	
3. Cirsium arvense	θ			15%	Yes	FACU	FACU species	62%	x4 =	2.48	
4. Poa pratensis				10%	No	FAC	UPL species	5%	x5 =	0.25	
5. Equisetum hyer				10%	No	FACW	Column Totals:	1.02	(A)	3.68	(B)
6. Ambrosia trifida	3			10%	No	FAC					
7. Daucus carota				5%	No	UPL	Prevale	nce Index = B/A	<i>\</i> =	3.61	
8. Ambrosia artem	nisiifolia			2%	No	FACU					
9											
10							Hydrophytic Vege	etation Indicate	ors:		
11											
12.							1-Rapid T	est for Hydroph	ytic Vegeta	tion	
13.							2-Dominar	nce Test is >50	%		
14.								nce Index is ≤3.			
15.							4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provid	le supporting	J
16.								emarks or on a	-		
17.							Problema	tic Hydrophytic	Vegetation	<sup>1</sup> (Explain)	
18.											
19.							<sup>1</sup> Indicators of hydric	soil and wetla	nd hydrolog	jy must	
20.							be present, unless	disturbed or pro	oblematic.		
				97%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.							Present?	Yes	No	х	
					= Total Cover				_		
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.										

Profile Desci	ription: (Describe to the	e depth needed	to document the ind	licator or cor	firm the ab	sence of in	dicators.)			
Depth	Matrix		Re	dox Features	- 1		-			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks	
0-16"	10YR 2/2	100					Silt Loam			
16-24"	10YR 6/3	98	10YR 7/2	2	D	М	Silt Loam			
							· ·			
						·				
		·								
	oncentration, D=Depletio		Matrix CS-Covered	or Contod Sa	od Croino	<sup>2</sup> Location:	PL=Pore Lining, M=N	Actrix		
Hydric Soil I			Iniality, CS=Covered (	or Coaled Sal	iu Grains.		dicators of Hydric S			
Histoso			Sandy Gleve	ed Matrix (S4)		100111	-	ese Masses (F12)		
	pipedon (A2)		Sandy Redo					Dark Surface (F22	2)	
	listic (A3)		Stripped Mat					in in Remarks)	-)	
	en Sulfide (A4)		Dark Surface	. ,				,		
	d Layers (A5)			y Mineral (F1)	)					
	uck (A10)			ed Matrix (F2)						
	d Below Dark Surface (A	11)	Depleted Ma	. ,						
	ark Surface (A12)	,	Redox Dark				<sup>3</sup> The hydric soil ind	icators have been ι	updated to	
	Mucky Mineral (S1)			rk Surface (F	7)		comply with the	Field Indicators of	Hydric Soils	
	ucky Peat or Peat (S3)		Redox Depre	essions (F8)				ates, Version 8.0,	-	
Restrictive I	ayer (if observed):									
Туре:										
Depth (ii	nches):					Hydric S	oil Present?	Yes	No	х
Remarks:	·					-				
HYDROL	OGY									
Wetland Hyd	Irology Indicators:									
Primary Indic	ators (minimum of one is	required: check	11.27				Secondary Indicato	ors (minimum of two	o required)	
Surface	Water (A1)		Water-Staine	ed Leaves (BS	9)		Surface Soil	Cracks (B6)		
High W	ater Table (A2)		Aquatic Faur	na (B13)			Drainage Pa			
Saturati			True Aquatic	Plants (B14)				Water Table (C2)		
	Marks (B1)			ulfide Odor (C	-		Crayfish Bur	. ,		
	nt Deposits (B2)			zospheres on	-	s (C3)		sible on Aerial Ima		
	posits (B3)			Reduced Iron				tressed Plants (D1)	1	
	at or Crust (B4)			Reduction in T	Tilled Soils (	C6)	·	Position (D2)		
	posits (B5)		Thin Muck S				FAC-Neutral	Test (D5)		
	ion Visible on Aerial Imag ly Vegetated Concave Su		Gauge or We		.)					
		nace (bo)		in in Remarks	s)					
Field Observ										
Surface Wate		Yes No		· · · · · · · · · · · · · · · · · · ·						
Water Table		Yes No		· · · · · · · · · · · · · · · · · · ·						
Saturation Pr		Yes No	X Depth (inches	s): N/A	Wetlar	d Hydrolog	y Present?	Yes	No	Х
(includes cap										
Describe Rei	corded Data (stream gau	ge, monitoring w	ell, aerial photos, prev	vious inspectio	ons), if availa	ble:				
Remarks:										
	drology was observed.									
no nonana ny										

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	Sampling Date: 7	/18/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			-	e: WI	Sampling Point:		DP-53	
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 3N, F			
Landform (hillslope,						al relief (concave, con			
Slope (%):	1% Lat:	42.672047		Long:	•	37.865872	· · · · · · · · · · · · · · · · · · ·	Datum: NAD83	3 UTM16N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slope			_ · · · ·			NWI classifica		
	logic conditions on the site typical for this time of y			Yes	X No	(If no, explain i	-		
Are Vegetation	N , Soil N		N significantly dist			al Circumstances" pre		Yes X N	lo
Are Vegetation	N , Soil N		N naturally proble			explain any answers			
-	FINDINGS Attach site map showing					ospiair any anonoio			
	, ,		/		,				
Hydric Soil Pres	getation Present?	Yes <u>x</u> Yes x	No No	-	e Sampled Are n a Wetland?	ea	Yes x	No	
Wetland Hydrol		Yes X	No	-					-
		100		•					
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	ns were normal. The feature is	s a roadside ditch of catta	ils.					
	Use scientific names of plants.								
	••••••		Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test v	vorksheet:		
1									
2.						Number of Dominar	nt Species		
3.						That Are OBL, FAC	W, or FAC:	2	(A)
4.									
5.						Total Number of Do	minant		
				= Total Cover		Species Across All	Strata:	2	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	t Species		
1						That Are OBL, FAC	W, or FAC:	100%	(A/B)
2									
3									
4						Prevalence Index v	vorksheet:		
5.									
				= Total Cover		Total % Co		Multipl	
						That Are OBL, FAC			A/B
Herb Stratum (Plot	· · · · · · · · · · · · · · · · · · ·	_				OBL species	40%	x1 =	0.4
1. Phalaris arundi			<u>60%</u> 40%	Yes	FACW OBL	FACW species	60%	x2 =	1.2
<ol> <li>Typha X glauca</li> <li>3.</li> </ol>	1		40%	res	UBL	FAC species		x3 =	
-			·	·	·	FACU species		x4 =	
4				·	·	UPL species Column Totals:	1.00	x5 =	1.6 (B)
5				·	·	Column rotais.	1.00	(A)	1.6 (B)
6					·	Draviala	an Index D/A		20
7 8.					·	Prevaler	nce Index = B/A	A = 1.6	0
8					·				
9 10			,		·	Hydrophytic Vege	tation Indicate		
11.			,		·	nyuropnyuc vege		//5.	
12.			,		·	X 1-Rapid Te	et for Hydroph	vtic Vegetation	
13.					·	X 2-Dominar			
14.					·	x 3-Prevalen			
15.					·			ons <sup>1</sup> (Provide sup	oporting
16.				·	·			separate sheet)	
17.			,		·			Vegetation <sup>1</sup> (Exp	olain)
18.					·				
19.					·	<sup>1</sup> Indicators of hydric	soil and wetlar	nd hydrology mu	st
20.					·	be present, unless			
			100%	= Total Cover	·	be present, unless	disturbed of pro	biematic.	
Woody Vine Stratur	m (Plot size: 30' radius)				_	Hydrophytic			
1						Vegetation			
2						Present?	Yes	X No	
				= Total Cover					
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.								

	ription: (Describe to the	aopinnooaoa					iuicators.)	
Depth	Matrix			lox Features	_ 1	2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3"	10YR 2/1	100					Loam	
3-15"	10YR 2/1	80	10YR 5/8	15	С	М	Clay Loam	
			10YR 6/1	5	D	М	Clay Loam	
15-24"	10YR 6/1	80	7.5YR 5/8	20	С	М	Clay	
						-		
<sup>1</sup> Type: C=C	oncentration, D=Depletion,	, RM=Reduced	Matrix, CS=Covered o	r Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=Ma	ıtrix.
Hydric Soil Ir	-						ndicators of Hydric So	
Histosol	l (A1)		Sandy Gleyed	d Matrix (S4)			Iron-Mangane	se Masses (F12)
Histic E	pipedon (A2)		Sandy Redox	(S5)			Very Shallow	Dark Surface (F22)
Black H	listic (A3)		Stripped Matr	ix (S6)			Other (Explain	in Remarks)
Hydroge	en Sulfide (A4)		Dark Surface	(S7)				
Stratifie	d Layers (A5)		Loamy Mucky	/Mineral (F1)				
2 cm Mi	uck (A10)		Loamy Gleye					
	d Below Dark Surface (A1	1)	Depleted Mat					
	ark Surface (A12)		X Redox Dark S				<sup>3</sup> The hydric soil indic	ators have been updated to
	Mucky Mineral (S1)		Depleted Dar		<sup>•</sup> )		•	Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)		X Redox Depre	-				tes, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Type:	ayer (ii observed).							
Depth (ir	nches):					Hvdric \$	Soil Present?	Yes X No
Remarks:								
Redox feature	s were found in a depleted	l layer beneath	a dark surface.					
	201							
HYDROLO								
-	Irology Indicators:						I	
	ators (minimum of one is r	equired: check						s (minimum of two required)
	Water (A1)		Water-Staine	d Leaves (B9)	1			racks (B6)
High Wa	ater Table (A2)		Aquatic Faun		)		Surface Soil C	
Saturati					)		Surface Soil C	
Water N	Marks (B1)		True Aquatic		)		Drainage Patt	
	1 D		True Aquatic Hydrogen Su	Plants (B14)			Drainage Patt	erns (B10) /ater Table (C2)
Duift Da	nt Deposits (B2)		·	Plants (B14) fide Odor (C1	)	s (C3)	Drainage Patt Dry-Season V Crayfish Burro	erns (B10) /ater Table (C2)
Drift De	posits (B3)		Hydrogen Su	Plants (B14) fide Odor (C1 ospheres on I	) Living Root	s (C3)	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis	erns (B10) /ater Table (C2) ws (C8)
	• • • •		Hydrogen Su Oxidized Rhiz	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron	) Living Root (C4)		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1)
Algal Ma	posits (B3)		Hydrogen Su Oxidized Rhiz Presence of P	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti	) Living Root (C4)		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma	posits (B3) at or Crust (B4)	ry (B7)	Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7)	) Living Root (C4)		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma	posits (B3) at or Crust (B4) posits (B5)		Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9)	) Living Root (C4) illed Soils ((		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf		Hydrogen Su Oxidized Rhiz Presence of f Recent Iron R Thin Muck Su Gauge or We	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9)	) Living Root (C4) illed Soils ((		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma Iron Dep Inundati Sparsel Field Observ	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Surf rations:	ace (B8)	Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks)	) Living Root (C4) illed Soils ((		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Surf rations: er Present? Ye	face (B8) es No	Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain	Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks)	) Living Root (C4) illed Soils ((		Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image y Vegetated Concave Surf rations: er Present? Ye Present? Ye	es <u>No</u>	Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explain C Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron Reduction in Ti rface (C7) II Data (D9) in in Remarks) : <u>N/A</u>	) Living Root (C4) illed Soils ((	C6)	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye	face (B8) es No	Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explain C Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron Reduction in Ti rface (C7) II Data (D9) in in Remarks) : <u>N/A</u>	) Living Root (C4) illed Soils ((	C6)	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table Saturation Prr (includes cap	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye iillary fringe)	race (B8) es No es No es No	Hydrogen Su     Oxidized Rhiz     Presence of F     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     Depth (inches)     Depth (inches)     Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron eduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table Saturation Prr (includes cap	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye	race (B8) es No es No es No	Hydrogen Su     Oxidized Rhiz     Presence of F     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     Depth (inches)     Depth (inches)     Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron eduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table Saturation Prr (includes cap	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye iillary fringe)	race (B8) es No es No es No	Hydrogen Su     Oxidized Rhiz     Presence of F     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     Depth (inches)     Depth (inches)     Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron eduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Deg Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Rec	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye iillary fringe)	race (B8) es No es No es No	Hydrogen Su     Oxidized Rhiz     Presence of F     Recent Iron F     Thin Muck Su     Gauge or We     Other (Explain     Depth (inches)     Depth (inches)     Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron eduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Rec Remarks:	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye iillary fringe)	ace (B8) es No es No es No e, monitoring w	Hydrogen Sul Oxidized Rhiz Presence of I Recent Iron R Thin Muck Su Gauge or We Other (Explain C Depth (inches) C Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron eduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Deg Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red Remarks:	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye illary fringe) corded Data (stream gaug	ace (B8) es No es No es No e, monitoring w	Hydrogen Sul Oxidized Rhiz Presence of I Recent Iron R Thin Muck Su Gauge or We Other (Explain C Depth (inches) C Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Deg Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red Remarks:	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye illary fringe) corded Data (stream gaug	ace (B8) es No es No es No e, monitoring w	Hydrogen Sul Oxidized Rhiz Presence of I Recent Iron R Thin Muck Su Gauge or We Other (Explain C Depth (inches) C Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)
Algal Ma Iron Deg Inundati Sparsel Field Observ Surface Wate Water Table Saturation Pr (includes cap Describe Red Remarks:	posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Surf rations: er Present? Ye Present? Ye esent? Ye illary fringe) corded Data (stream gaug	ace (B8) es No es No es No e, monitoring w	Hydrogen Sul Oxidized Rhiz Presence of I Recent Iron R Thin Muck Su Gauge or We Other (Explain C Depth (inches) C Depth (inches)	Plants (B14) fide Odor (C1 cospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) : N/A : N/A	) Living Root (C4) illed Soils ((	C6) nd Hydrolo	Drainage Patt Dry-Season V Crayfish Burro Saturation Vis Stunted or Str X Geomorphic F X FAC-Neutral	erns (B10) /ater Table (C2) ws (C8) ible on Aerial Imagery (C9) essed Plants (D1) Position (D2) fest (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		S	ampling Da	ate: 7/18/201	18
Applicant/Owner:	Wisconisn Dept. of Transportation			State	-	Sampling Point			-54	
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 3N,				
Landform (hillslope,						al relief (concave, co				
Slope (%):	5% Lat:	42.672056		Long:		37.865935			AD83 UTM1	6N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slope						NWI classifica		lone	
	logic conditions on the site typical for this time of			Yes	X No	(If no, explain		<u></u>	0.110	
Are Vegetation	N , Soil N	, or Hydrology N	significantly dis			al Circumstances" pre		Yes	X No	
Are Vegetation	N , Soil N	, or Hydrology N				explain any answers		163	<u></u>	
	FINDINGS Attach site map showing						in Romano.			
Hydropnytic Veg	getation Present?	Yes Yes	No <u>x</u> No x	-	e Sampled Are n a Wetland?	ea	Yes	No	~	
Wetland Hydrold		Yes	No x				165	_ 110		
-		100		_						
Remarks: WETS analysis dete	ermined that the antecedent precipitation conditio	ns were normal. The point is or	a road shoulder.							
VEGETATION -	Use scientific names of plants.					1				
Tes a Otracture (Dist			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	worksheet:			
1					·					
2						Number of Domina				
3.					·	That Are OBL, FAG	SW, or FAC:		1 (	(A)
4					·	Total Number of D				
5				Tatal Gauss	· <u> </u>	Total Number of D				(D)
				= Total Cover		Species Across Al	Strata:		2	(B)
Sanling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	nt Spacios			
1. Fraxinus penns			2%	No	FACW	That Are OBL, FAG	-	5	0%	(A/B)
2.	yivanica		2.78	110	FACW	mat Are OBL, FAG	JW, OF FAC.		576	(AVB)
3.					· <u> </u>					
4.					· <u> </u>	Prevalence Index	worksheet.			
5.			·		· <u> </u>	Trevalence index	WOIKSHEEL.			
0.			2%	= Total Cover	·	Total % C	over of	N	fultiply by:	
			270			That Are OBL, FAC				A/B
Herb Stratum (Plot	size: 5' radius)					OBL species		x1 =		
1. Poa pratensis		_	50%	Yes	FAC	FACW species	2%	x2 =	0.04	
2. Cirsium arvense	0		20%	Yes	FACU	FAC species	50%	x3 =	1.5	
3. Asclepias syriad			15%	No	FACU	FACU species	35%	x4 =	1.4	
4.						UPL species		x5 =		
5.						Column Totals:	0.87	(A)	2.94	(B)
6.										
7.						Prevale	ence Index = B/A	۹ =	3.38	
8.				_						_
9.				_						
10.						Hydrophytic Veg	etation Indicate	ors:		
11.										
12.						1-Rapid T	est for Hydroph	ytic Vegeta	tion	
13.						2-Domina	nce Test is >50	%		
14.						3-Prevale	nce Index is ≤3.	0 <sup>1</sup>		
15.						4-Morpho	logical Adaptation	ons <sup>1</sup> (Provid	e supporting	ł
16.						data in R	emarks or on a	separate sh	ieet)	
17.						Problema	atic Hydrophytic	Vegetation <sup>1</sup>	(Explain)	
18.				_						
19.				_		<sup>1</sup> Indicators of hydri	c soil and wetla	nd hydrolog	y must	
20.				_		be present, unless	disturbed or pro	oblematic.		
			85%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes	No	x	
				= Total Cover						
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.									

	ription: (Describe to th	ne depth needed t			firm the ab	sence of inc	dicators.)	
Depth (inchoo)	Matrix	%		dox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Touturo	Domorko
(inches)	Color (moist)		Color (moist)	70	туре	LUC	Texture	Remarks
0-6"	10YR 3/3	100					Loam	
6-20"	10YR 4/4	100					Silty Clay Loam	
						<b>.</b> . <u></u>		
				• <u> </u>				
<sup>1</sup> Type: C=C	Concentration, D=Depleti	on RM=Reduced	Matrix CS=Covered	or Coated Sar	od Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix
Hydric Soil I		JII, INIM-INGGGGG	Vidun, 00-0010101	01 000100 00.			dicators of Hydric S	
Histoso			Sandy Gleye	ed Matrix (S4)			-	nese Masses (F12)
	Epipedon (A2)		Sandy Redo					w Dark Surface (F22)
	Histic (A3)		Stripped Mat					ain in Remarks)
	gen Sulfide (A4)		Dark Surface					
	ed Layers (A5)			ky Mineral (F1)	١			
	luck (A10)			ed Matrix (F2)				
	ed Below Dark Surface (	A 4 4 \	Depleted Ma					
·		A11)					<sup>3</sup> The hydric coil inc	licators have been updated to
	Dark Surface (A12)			Surface (F6)	<b></b> \		•	•
	Mucky Mineral (S1) /ucky Peat or Peat (S3)			ark Surface (F7	()			e Field Indicators of Hydric Soils
			Redox Depre	38810118 (FO)			In the United S	tates, Version 8.0, 2016.
	_ayer (if observed):							
Type:								
Depth (i	inches):					Hydric So	oil Present?	Yes NoX
HYDROL								
-	drology Indicators:						1	
	cators (minimum of one i	s required: check a					-	ors (minimum of two required)
	e Water (A1)			ed Leaves (B9	))			Cracks (B6)
	/ater Table (A2)		Aquatic Faur					atterns (B10)
	tion (A3)			Plants (B14)				Water Table (C2)
	Marks (B1)		, °	ulfide Odor (C	,		Crayfish Bur	
	ent Deposits (B2)			izospheres on		s (C3)		visible on Aerial Imagery (C9)
Drift De	eposits (B3)		Presence of	Reduced Iron	(C4)			Stressed Plants (D1)
	lat or Crust (B4)			Reduction in T	illed Soils (C	26)		Position (D2)
	eposits (B5)		Thin Muck Se	urface (C7)			FAC-Neutra	i Test (D5)
	tion Visible on Aerial Ima		Gauge or We	ell Data (D9)				
Sparse	ely Vegetated Concave S	urface (B8)	Other (Explain	in in Remarks	.)			
Field Observ	vations:				Τ			
Surface Wate	er Present?	Yes No X	Depth (inches	s): N/A				
Water Table		Yes No X						
Saturation Pr		Yes No X			Wetlan	nd Hydrolog	v Present?	Yes No X
(includes cap							<b>,</b>	
	ecorded Data (stream ga	uae. monitoring we	ell. aerial photos, prev	vious inspectio	ns). if availa	ble:		
		-9-, - 0			,,			
Remarks:								
No wetland hy	ydrology was observed.							
1								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Coun	ty	s	ampling Date	e: 7/18/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation			State	: WI	Sampling Point		DP-5		
Investigator(s):	K. Carlson, E. Englund				Section, Townsh	ip, Range: TWP 2N,	RNG 22E, SEC	2		
Landform (hillslope,	, terrace, etc.): Toeslope				Loc	al relief (concave, cor	vex, none): co	ncave		
Slope (%):	1% Lat:	42.662471		Long:		37.872764		Datum: NA	D83 UTM1	6N
Soil Map Unit Name	e: Am - Alluvial land						NWI classifica	ation: T3	к	
Are climatic / hydro	ologic conditions on the site typical for this time of y	/ear?		Yes	X No	(If no, explain i	n Remarks.)			
Are Vegetation	N , Soil N	, or Hydrology	N significantly dis	turbed?	Are "Norm	al Circumstances" pre	sent?	Yes X	(_No	
Are Vegetation	N, Soil N	, or Hydrology	N naturally proble	matic?	(If needed,	explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing	sampling point loca	tions, transects, imp	ortant featur	es, etc.					
Hydrophytic Veg	getation Present?	Yes x	No	Is the	Sampled Ar	ea				
Hydric Soil Pres	sent?	Yes x	No	withi	n a Wetland?		Yes x	No		
Wetland Hydrold	ogy Present?	Yes x	No	_						
Remarks: WETS analysis det	termined that the antecedent precipitation condition	ns were normal. The feature	e is a wet, emergent basin b	etween to conve	rging roadways.					
VEGETATION ·	Use scientific names of plants.					1				
Tree Stratum (Plot	cizo: 20' rodius)		Absolute	Dominant	Indicator					
1.	size. So radius)		% Cover	Species?	Status	Dominance Test	vorksheet:			
2.						Number of Domina	nt Species			
3.					·	That Are OBL, FAC		1	,	(A)
4.						,	,	·	`	- 7
5.					·	Total Number of Do	minant			
				= Total Cover		Species Across All	Strata:	1	í	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	nt Species			
1.						That Are OBL, FAC	W, or FAC:	100	)% (	(A/B)
2										
3.										
4						Prevalence Index	vorksheet:			
5.										
				= Total Cover		Total % Co That Are OBL, FAC		Mu	ultiply by:	A/B
Herb Stratum (Plot	r size: 5' radius)					OBL species	W, ULFAC.	x1 =	/	VD
1. Phalaris arundii		_	100%	Yes	FACW	FACW species	100%		2	—
2.						FAC species	10070	x3 =		
3.			·		·	FACU species		x4 =		
4.					· <u> </u>	UPL species		x5 =		
5.						Column Totals:	1.00	(A)	2	(B)
6.										
7						Prevale	nce Index = B/A	· =	2.00	
8										
9										
10						Hydrophytic Vege	tation Indicate	ors:		
11						X ( D )   T				
12.					· <u> </u>		est for Hydroph		n	
13 14.			· ·		·		ice Test is >50 <sup>o</sup> ice Index is ≤3.0			
14 15.							ogical Adaptatio		supporting	1
16.			·		· <u> </u>		emarks or on a			
17.			·		· <u> </u>		ic Hydrophytic			
18.					·			0	/	
19.					·	<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrology	must	
20.			·		·	be present, unless	disturbed or pro	oblematic.		
	-		100%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes	<u> </u>	_	
				= Total Cover						
	photo numbers here or on a separate sheet.) he wetland transition to cattails.									

Depth       Matrix       Redox Features         0-167       10782       100       10782       20       M       Site com         162-27       10782-41       00       10782       20       C       M       Site Com         1792       10782-41       00       10782-82       20       C       M       Site Com         1792       Commentation, D-Depicton, RM-Reduced Matrix, CSA       20       C       M       Site Columentation, D-Depicton, RM-Reduced Matrix, CSA         1792       Commentation, D-Depicton, RM-Reduced Matrix, CSA       Sandy Glepel Matrix (SA)       Site Columentation, D-Depicton, RM-Reduced Matrix, CSA       Sondy Redox (S5)       Context (Site Columentation, CPC)         1794       State Columentation, CA       Sandy Glepel Matrix, CSA       Sondy Redox (S5)       Context (Site Columentation, CPC)         1946       State Columentation, CA       Sandy Glepel Matrix, CSA       Sondy Redox (S5)       Context (Site Columentation, CPC)         1947       State Columentation, CA       Sandy Glepel Matrix, CSA       Sondy Redox (S5)       Context (Site Columentation, CPC)         2 mm Mack (Alo)       Sate Matrix (Site CF)       The hydric soil indicators have been updated to sondy with the Acad matcation of hydrox Solate, CPC)       Sondy Redox (Site CF)       Sondy Redox (Site CF)       Sondy Redox (Site CF)		Matrix		Rei	dox Features				
0-10°         10YR 21         100         10YR 3/2         20         C         M         Stity Clay Loam           16-24         10YR 4/1         60         10YR 3/2         20         C         M         Stity Clay Loam           16-24         10YR 4/1         60         10YR 3/2         20         C         M         Stity Clay Loam           17         20         C         M         Stity Clay Loam	(inches)		%			Tvpe <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks
16:24         10YR 4/1         60         10YR 3/2         20         C         M         Stay Clay Lean									
Type:       C. C. M. Sity Clay Lean         Type:       C. Concentration. D=Depletion. RM=Reduced Matrix. CS=Covered or Coated Sand Grains.       *Location: PL=Pore Lining, M=Matrix.         Hydric Soll Indicators':       Test Indicators of Hydric Solis:       Test Indicators of Hydric Solis:         Hatcold (A1)       Sandy Cleved Matrix (S4)       Uncohomogenee Masses (F12)         Hatcold (A1)       Sandy Cleved Matrix (S5)       Other (Explain In Remarks)         Hydric Soll Indicators of Hydric Solis:       Uncohomogenee Masses (F12)         Black Hiel (A3)       Sandy Redxol (S5)       Other (Explain In Remarks)         Hydrics Call Indicators of Hydric Solis:       Uncohomogenee Masses (F12)         Straffiel Clayser (A6)       Leamy Masky Mercal (F1)       Other (Explain In Remarks)         Hydrics Call Indicators of Hydric Solis:       The hydric Soil Indicators have been cyclined to complete that Straffiel Clayser (A11)         Depleted Datx Straffiel (F3)       Redxox Depressions (F8)       In the Unded States, Version 8.0, 2016.         Restrictle Layer (If observed):       Type:       Depleted Datx Straffiel (F3)       Straffiel Clayser (F3)         Straffiel Clayser (A11)       Depleted Datx Straffiel (F3)       Straffiel Clayser (F3)       In the Unded States, Version 8.0, 2016.         Restrictle Layer (If observed):       Type:       Type:       No       Straffiel Clayser (F3)				10VP 2/2	20		N		
Image: Secondariation. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sard Grains.       * Location: PL=Prise Lining, M=Matrix.         Hindscalarors?       Sandy Glayed Matrix (S4)       Test Indicators of Hydric Solis:         Hindscalarors.       Sandy Glayed Matrix (S5)       Other (Explain in Remarks)         Hydrig Soli Indicators of Hydric Solis:       Sandy Redox (S5)       Other (Explain in Remarks)         Hydrig Soli Matrix (A1)       Dark Surface (S7)       Other (Explain in Remarks)         Yuprogen Surface (A12)       Rodox Dark Surface (F7)       ************************************	10-24	101R 4/1	60						
Hydric Soil Indicators f:         Test Indicators f (Prior Soils:           Histacul (A1)         Sandy Glayed Matrix (S4)         Icon-Manganese Masses (F12)           Hista Equation (A2)         Sandy Redox (S5)         Very Shallword Carls Surface (F22)           Black Hatic (A3)         Stripped Matrix (S6)         Other (Explain in Remarks)           Hydrigen Sulfiel (A4)         Dark Surface (F7)         Charler (Explain in Remarks)           2 cm Muck (A10)         Learry Oleyed Matrix (F2)         Depleted Batrix (F7)           3 Strip Muck (A10)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 andy Muck (Menal (S1)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 and Muck (Past or Peet (S3)         Redox Depressions (F8)         in the United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Type:         Pertific for Soils         pertific Soils           Type:         Depleted Bark Surface.         Surface Soil And Surface (F2)         No           Surface Muck (A1)         Muck Stripped Matrix (F1)         Secondary Indicators (minimum of two required)           Type:         Redox features were found in a depleted layer beneath a dark surface.         Surface Soil Cracks (B0)         Surface Soil Cracks (B0)           Surface Water (A1)         Muck Antrace (B1			·	7.5YR 5/8	20	<u> </u>	M	Silty Clay Loam	
Hydric Soil Indicators f:         Test Indicators f (Prior Soils:           Histacul (A1)         Sandy Glayed Matrix (S4)         Icon-Manganese Masses (F12)           Hista Equation (A2)         Sandy Redox (S5)         Very Shallword Carls Surface (F22)           Black Hatic (A3)         Stripped Matrix (S6)         Other (Explain in Remarks)           Hydrigen Sulfiel (A4)         Dark Surface (F7)         Charler (Explain in Remarks)           2 cm Muck (A10)         Learry Oleyed Matrix (F2)         Depleted Batrix (F7)           3 Strip Muck (A10)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 andy Muck (Menal (S1)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 and Muck (Past or Peet (S3)         Redox Depressions (F8)         in the United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Type:         Pertific for Soils         pertific Soils           Type:         Depleted Bark Surface.         Surface Soil And Surface (F2)         No           Surface Muck (A1)         Muck Stripped Matrix (F1)         Secondary Indicators (minimum of two required)           Type:         Redox features were found in a depleted layer beneath a dark surface.         Surface Soil Cracks (B0)         Surface Soil Cracks (B0)           Surface Water (A1)         Muck Antrace (B1									
Hydric Soil Indicators f:         Test Indicators f (Prior Soils:           Histacul (A1)         Sandy Glayed Matrix (S4)         Icon-Manganese Masses (F12)           Hista Equation (A2)         Sandy Redox (S5)         Very Shallword Carls Surface (F22)           Black Hatic (A3)         Stripped Matrix (S6)         Other (Explain in Remarks)           Hydrigen Sulfiel (A4)         Dark Surface (F7)         Charler (Explain in Remarks)           2 cm Muck (A10)         Learry Oleyed Matrix (F2)         Depleted Batrix (F7)           3 Strip Muck (A10)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 andy Muck (Menal (S1)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 and Muck (Past or Peet (S3)         Redox Depressions (F8)         in the United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Type:         Pertific for Soils         pertific Soils           Type:         Depleted Bark Surface.         Surface Soil And Surface (F2)         No           Surface Muck (A1)         Muck Stripped Matrix (F1)         Secondary Indicators (minimum of two required)           Type:         Redox features were found in a depleted layer beneath a dark surface.         Surface Soil Cracks (B0)         Surface Soil Cracks (B0)           Surface Water (A1)         Muck Antrace (B1			·						
Hydric Soil Indicators f:         Test Indicators f (Prior Soils:           Histacul (A1)         Sandy Glayed Matrix (S4)         Icon-Manganese Masses (F12)           Hista Equation (A2)         Sandy Redox (S5)         Very Shallword Carls Surface (F22)           Black Hatic (A3)         Stripped Matrix (S6)         Other (Explain in Remarks)           Hydrigen Sulfiel (A4)         Dark Surface (F7)         Charler (Explain in Remarks)           2 cm Muck (A10)         Learry Oleyed Matrix (F2)         Depleted Batrix (F7)           3 Strip Muck (A10)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 andy Muck (Menal (S1)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 and Muck (Past or Peet (S3)         Redox Depressions (F8)         in the United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Type:         Pertific for Soils         pertific Soils           Type:         Depleted Bark Surface.         Surface Soil And Surface (F2)         No           Surface Muck (A1)         Muck Stripped Matrix (F1)         Secondary Indicators (minimum of two required)           Type:         Redox features were found in a depleted layer beneath a dark surface.         Surface Soil Cracks (B0)         Surface Soil Cracks (B0)           Surface Water (A1)         Muck Antrace (B1			· ·						
Hydric Soil Indicators f:         Test Indicators f (Prior Soils:           Histacul (A1)         Sandy Glayed Matrix (S4)         Icon-Manganese Masses (F12)           Hista Equation (A2)         Sandy Redox (S5)         Very Shallword Carls Surface (F22)           Black Hatic (A3)         Stripped Matrix (S6)         Other (Explain in Remarks)           Hydrigen Sulfiel (A4)         Dark Surface (F7)         Charler (Explain in Remarks)           2 cm Muck (A10)         Learry Oleyed Matrix (F2)         Depleted Batrix (F7)           3 Strip Muck (A10)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 andy Muck (Menal (S1)         Depleted Dark Surface (F7)         comply with the Fiel Indicators Hydric Soils           5 and Muck (Past or Peet (S3)         Redox Depressions (F8)         in the United States, Version 8.0, 2016.           Restrictive Layer (if observed):         Type:         Pertific for Soils         pertific Soils           Type:         Depleted Bark Surface.         Surface Soil And Surface (F2)         No           Surface Muck (A1)         Muck Stripped Matrix (F1)         Secondary Indicators (minimum of two required)           Type:         Redox features were found in a depleted layer beneath a dark surface.         Surface Soil Cracks (B0)         Surface Soil Cracks (B0)           Surface Water (A1)         Muck Antrace (B1						_			
Histopol (A1)	21		n, RM=Reduc	ced Matrix, CS=Covered of	or Coated San	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M	=Matrix.
Histic Epipedon (A2)       Sandy Redox (55)       Very Shallow Dark Surface (F22)         Black Histic (A3)       Stripped Matrix (36)       Other (Explain in Remarks)         Hydrogen Sulfide (A4)       Loamy Mucky Mineral (F1)       Loamy Mucky Mineral (F1)         2 cm Mucky Mineral (S1)       Depleted Matrix (F2)       Peoleted Bark Surface (F6)       **The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils         3 Strike Layer (If observed):       Type:	-						Test Ir	•	
Bitck Hatic (A3)       Gripped Matrix (S5)       Other (Explain in Remarks)         Hydrogen Suffice (A4)       Dark Surface (S7)       Other (Explain in Remarks)         2 or Muck (A10)       Loamy Gleyed Matrix (F2)       Depleted Boarks Out (S2)       The hydric sol indicators have been updated to comply with the Field Indicators have been updated to comply with the Field Indicators of Hydric Solis in the United States, Varsion B.0, 2016.         Restrictive Layer (If observed):       Type:       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Solis in the United States, Varsion B.0, 2016.         Restrictive Layer (If observed):       Type:       Depleted Dark Surface (F8)       in the United States, Varsion B.0, 2016.         Restrictive Layer (If observed):       Type:       Depleted Dark Surface (F8)       Secondary Indicators (minimum of one is required: check all that apply)       Fee X       No         Surface Water (A1)       Aquatic Fauna (IS1)       Secondary Indicators (minimum of two required)       Surface Water (A1)       No         Mutary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of two required)       Surface Water (A1)       Op-Secondary Indicators (B1)       Drade Soli Crecks (B6)         Hydric Solis (B2)       Oxidized Rhitic Plana (IS13)       Drainage Patterns (B1)       Drainage Patterns (B1)       Drainage Patterns (B1)         Saturation (A3)       The kequatic Plana									
Hydrogen Suticie (A4)       Dark Surface (S7)       The hydrogen Suticie (A4)         Stratified Layers (A5)       Loamy Muckly Minoral (F1)         2 cm Muck (A10)       Depleted Below Dark Surface (A11)       Depleted Mark (F2)         Depleted Below Dark Surface (A11)       Depleted Dark Surface (F6)       The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils         5 cm Mucky Mineral (S1)       Depleted Dark Surface (F7)       comply with the Field Indicators 0.1 Hydric Soils         Redox Depressions (F8)       in the United States, Version 8.0, 2016.         Retrictive Layer (if observed):       Type:									
Stratified Layers (A5)       Loamy Mucky Mineral (F1)         2 cm Muck (A10)       Loamy Gleyad Matrix (F2)         Depleted Below Dark Surface (A12)       Redox Dark Surface (F6)       *The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils         S orm Mucky Petar O Peat (S3)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Soils         Redox Dark Surface (F7)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Soils         Remarks:       Redox Depressions (F8)       in the United States, Version 8.0, 2016.         Remarks:       Redox testures were found in a depleted layer beneath a dark surface.         HYDROLOGY		. ,						Other (Exp	lain in Remarks)
2 cm Muck (A10)       Loamy Gleyed Matrix (F2)         Depleted Below Dark Surface (A11)       Depleted Matrix (F3)         3 Trick Dark Surface (A12)       Redox Dark Surface (F6)       *The hydric soil indicators have been updated to comply with the <i>Field Indicators of Hydric Soile</i> 5 cm Mucky Peat or Peat (S3)       Redox Depressions (F8)       in the United States, Version 8.0, 2016.         Restrictive Layer (if observed):       Type:									
Depleted Below Dark Surface (A11)       Depleted Matrix (F3)       The hydric soil indicators have been updated to         Sandy Mucky Menral (S1)       Depleted Dark Surface (F6)       Comply with the Field Indicators and thydric Soils in the United States, Version 8.0, 2016.         Restrictive Layer (if observed):       Type:									
Image: Thick Dark Surface (A12)       Redox Dark Surface (F6)       a*The hydric soil indicators have been updated to comply with the Field Indicators of Hydric Soils in the United States, Version 8.0, 2016.         Restrictive Layer (if observed):       Type:		( )							
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       comply with the Field Indicators of Hydric Soils         rstrictive Layer (if observed):       Type:	·		11)					2	
image: solution of the set of the s								-	
Restrictive Layer (if observed):       Type:					-	7)			-
Type:	5 cm N	Nucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United	States, Version 8.0, 2016.
Depth (inches):       Hydric Soil Present?       Yes       X       No         Remarks:       Record features were found in a depleted layer beneath a dark surface.       HYDROLOGY         Methand Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       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)         Saturation (A3)       True Aquatic Plants (B14)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogs Sulfide Odor (C1)       Crayfish Burrows (C8)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Trin August Valer Crash (B6)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X Geomorphic Position (D2)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Saturation Present?       Yes       No         Saturation Resent?       Yes       No       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       No         Saturation Present?       Yes       No	Restrictive I	Layer (if observed):							
Remarks:         Redox features were found in a depleted layer beneath a dark surface.         HyDROLOGY         Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of two required)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soli Cracks (B6)         High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (B10)         Saturation (A3)       True Aquatic Plants (B14)       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)       Sturted or Stressed Plants (D1)         Agal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X Geomorphic Position (D2)         Inon Deposits (B5)       Thin Muck Surface (C7)       X FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       NA       Depth (inches): <u>N/A</u> Saturation Present?       Yes <u>No X</u> Depth (inches): <u>N/A</u> Wetland Hydrology Present? Yes <u>No X</u>				<u>.</u>					
Redox features were found in a depleted layer beneath a dark surface.         HYDROLOGY         Wetrand Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary Indicators (minimum of two required)         Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         High Water Table (A2)       Aquatic Flana (B13)       Drianage Patterns (B10)         Saturation (A3)       True Aquatic Plants (B14)       Dry-Season Water Table (C2)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)       Crafish Burrows (C8)         Seconders (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Agal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       FAC-Neutral Test (D5)         Iron Deposits (B5)       Other (Explain in Remarks)         Wetande Hydrology Present?         Yes       No       X         Saturation Present?       Yes       No         Yes       No       X       Depth (inches): <u>N/A</u> Water Table Present?       Y	Depth (	inches):					Hydric \$	Soil Present?	Yes <u>X</u> No
Wetland Hydrology Indicators:       Primary Indicators (minimum of one is required: check all that apply)       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)         Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X       Geomorphic Position (D2)         Inon Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Present?       Yes       No       No       Mo         Saturation Present?       Yes       No       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       No         Becribe Recorded Data (stream gauge, monitoring w									
Primary Indicators (minimum of one is required: check all that apply)       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)         Saturation (A3)       True Aquatic Plants (B14)       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)         Diff Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Wetrand Hydrology Present?       Yes       No         Saturation Present?       Yes       No       Mo         Gincludes capillary fringe)       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       No         Describe Recorded Data (stream gauge, monitoring well, aerial ph		OGY							
Surface Water (A1)       Water-Stained Leaves (B9)       Surface Soil Cracks (B6)         High Water Table (A2)       Aquatic Fauna (B13)       Drainage Patterns (B10)         Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       FAC-Neutral Test (D5)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)       Vetland Hydrology Present?       Yes									
Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Deptroite Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Yes       X       No	Wetland Hy	drology Indicators:	required: che	eck all that apply)				Secondary Indica	ators (minimum of two required)
Saturation (A3)       True Aquatic Plants (B14)       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 or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Vater Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Deptroite Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Yes       X       No	Wetland Hy Primary India	drology Indicators: cators (minimum of one is	required: che		ed Leaves (B9	))			
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 or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         (includes capillary fringe)       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         Remarks:       Emarks:       Stress of Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Face No       Stress of Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Wetland Hy Primary India Surface	drology Indicators: cators (minimum of one is e Water (A1)	required: che	Water-Staine	,	)		Surface So	bil Cracks (B6)
Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)       Saturation Visible on Aerial Imagery (C9)         Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Wetland Hy Primary India Surface High W	drology Indicators: cators (minimum of one is e Water (A1) Jater Table (A2)	required: che	Water-Staine Aquatic Faur	a (B13)	))		Surface So Drainage F	bil Cracks (B6) Patterns (B10)
Drift Deposits (B3)       Presence of Reduced Iron (C4)       Stunted or Stressed Plants (D1)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X       Geomorphic Position (D2)         Iron Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Other (Explain in Remarks)         Field Observations:       Surface (B8)       Other (Explain in Remarks)         Surface Water Present?       Yes       No       X         Mater Table Present?       Yes       No       X         Agauration Present?       Yes       No       X         Includes capillary fringe)       Depth (inches):       N/A         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       If available:	Wetland Hy Primary India Surface High W Satura	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3)	required: che	Water-Staine Aquatic Faur True Aquatic	a (B13) Plants (B14)			Surface So Drainage F Dry-Seaso	bil Cracks (B6) Patterns (B10) n Water Table (C2)
Iron Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Other (Explain in Remarks)         Field Observations:       Other (Explain in Remarks)         Surface Water Present?       Yes       No         Yes       No       X         Depth (inches):       N/A         Water Table Present?       Yes       No         Saturation Present?       Yes       No         Yes       No       X         Depth (inches):       N/A         Wetland Hydrology Present?       Yes       X         No       Z       Depth (inches):       N/A         Wetland Hydrology Present?       Yes       X       No         Cincludes capillary fringe)       Depth (acrial photos, previous inspections), if available:       Remarks:	Wetland Hy Primary India Surface High W Satura Water	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	required: che	Water-Staine Aquatic Faur True Aquatic Hydrogen Su	a (B13) Plants (B14) Ilfide Odor (C1	1)	s (C3)	Surface So Drainage F Dry-Seasc Crayfish B	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8)
Iron Deposits (B5)       Thin Muck Surface (C7)       X       FAC-Neutral Test (D5)         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)       Other (Explain in Remarks)         Field Observations:       Other (Explain in Remarks)         Surface Water Present?       Yes       No         Yes       No       X         Depth (inches):       N/A         Water Table Present?       Yes       No         Saturation Present?       Yes       No         Yes       No       X       Depth (inches):         (includes capillary fringe)       Depth (aerial photos, previous inspections), if available:         Remarks:       Remarks:	Wetland Hy Primary India Surface High W Satura Water Sedimo	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	required: che	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on	1) Living Root	s (C3)	Surface So Drainage F Dry-Seaso Crayfish B Saturation	bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Water Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Gincludes capillary fringe)       Ves       No       X       Depth (inches):       N/A         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Wetland Hy Primary India Surface High W Satura Water Sedime Drift De	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	required: che	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron	1) Living Root (C4)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or	bil Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:       Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Water Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Gincludes capillary fringe)       Ves       No       X       Depth (inches):       N/A         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Wetland Hy Primary India Surface High W Satura Water Sedimu Drift Du Algal M	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /lat or Crust (B4)	required: che	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi: Presence of Recent Iron F	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T	1) Living Root (C4)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Water Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         (includes capillary fringe)       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Example to the stream gauge of the stream gau	Wetland Hy Primary Indii Surfac High W Satura Water Sedimu Drift Du Algal M Iron De	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4)		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Surface Water Present?       Yes       No       X       Depth (inches):       N/A         Water Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         (includes capillary fringe)       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Example to the stream gauge of the stream gau	Wetland Hy Primary Indii Surfac High W Satura Water Sedim Drift Da Algal M Iron De Inunda	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag	ery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	1) Living Root (C4) ïlled Soils ( <sup>(</sup>		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Water Table Present?       Yes       No       X       Depth (inches):       N/A         Saturation Present?       Yes       No       X       Depth (inches):       N/A         (includes capillary fringe)       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Remarks:       Remarks:	Wetland Hy Primary Indii Surfac High W Satura Water Drift Du Algal M Iron De Inunda Sparse	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag	ery (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	1) Living Root (C4) ïlled Soils ( <sup>(</sup>		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Saturation Present?       Yes       No       X       Depth (inches):       N/A       Wetland Hydrology Present?       Yes       X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:       Ves       X       No         Remarks:       Remarks:       Ves	Wetland Hy Primary Indi Surfac High W Satura Water Sedim Drift D Algal M Iron De Inunda Sparse	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations:	ery (B7) rface (B8)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	1) Living Root (C4) ïlled Soils ( <sup>(</sup>		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Wetland Hy Primary Indii Surfac High W Satura Water Sedim Drift Du Algal M Iron De Inunda Sparse Field Obser Surface Wat	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No	Water-Staine         Aquatic Faur         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks;	1) Living Root (C4) ïlled Soils ( <sup>(</sup>		Surface So Drainage F Dry-Seaso Crayfish B Saturation Stunted or X Geomorph	bil Cracks (B6) Patterns (B10) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:	Wetland Hy Primary Indii Surfac: High W Satura Water Sedim Drift De Iron De Inunda Sparse Field Obser Surface Water Water Table	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No Yes No	X       Water-Staine         Aquatic Faur       True Aquatic         True Aquatic       Hydrogen Su         Oxidized Rhiz       Presence of         Recent Iron F       Thin Muck Su         Gauge or We       Other (Explain         X       Depth (inchess         X       Depth (inchess	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u>	1) Living Root (C4) ïlled Soils ((	C6)	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
Remarks:	Wetland Hy Primary India Surface High W Satura Water Drift De Algal M Iron De Inunda Sparse Field Obser Surface Water Table Saturation P	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No Yes No	X       Water-Staine         Aquatic Faur       True Aquatic         True Aquatic       Hydrogen Su         Oxidized Rhiz       Presence of         Recent Iron F       Thin Muck Su         Gauge or We       Other (Explain         X       Depth (inchess         X       Depth (inchess	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u>	1) Living Root (C4) ïlled Soils ((	C6)	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
	Wetland Hy Primary India Surface High W Satura Water Drift De Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No Yes No Yes No	X       Depth (inches         X       Depth (inches	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A	1) Living Root (C4) ïlled Soils ( <sup>1</sup> )	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
	Wetland Hy Primary India Surface High W Satura Water Drift De Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No Yes No Yes No	X       Depth (inches         X       Depth (inches	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A	1) Living Root (C4) ïlled Soils ( <sup>1</sup> )	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
Lower portions of the feature appear to hold surface during a portion of the growing season.	Wetland Hy Primary India Surface High W Satura Water Drift De Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes ca	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No Yes No Yes No	X       Depth (inches         X       Depth (inches	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A	1) Living Root (C4) ïlled Soils ( <sup>1</sup> )	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
	Wetland Hy Primary Indii Surfac High W Satura Water Sedimd Drift Da Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present?	ery (B7) rface (B8) Yes No Yes No Yes No	X       Depth (inches         X       Depth (inches	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A	1) Living Root (C4) ïlled Soils ( <sup>1</sup> )	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
	Wetland Hy Primary Indii Surfac High W Satura Water Sedimd Drift Da Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present? Present?	ery (B7) rface (B8) Yes No Yes No ge, monitorin	Water-Staine         Aquatic Faur         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhi;         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain)         X       Depth (inchess         X       Depth (inchess         X       Depth (inchess         X       Depth (inchess	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A ious inspection	1) Living Root (C4) iilled Soils (f ) Wetlan ns), if availa	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
	Wetland Hy Primary Indii Surfac High W Satura Water Sedimd Drift Da Algal M Iron De Inunda Sparse Field Obser Surface Wat Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present? Present?	ery (B7) rface (B8) Yes No Yes No ge, monitorin	Water-Staine         Aquatic Faur         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhi;         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain)         X       Depth (inchess         X       Depth (inchess         X       Depth (inchess         X       Depth (inchess	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A ious inspection	1) Living Root (C4) iilled Soils (f ) Wetlan ns), if availa	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)
	Wetland Hy Primary Indii Surfac High W Satura Water Sedimd Drift Da Algal M Iron De Inunda Sparse Field Obser Surface Water Table Saturation P (includes cap Describe Re	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) Mat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ter Present? Present?	ery (B7) rface (B8) Yes No Yes No ge, monitorin	Water-Staine         Aquatic Faur         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhi;         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain)         X       Depth (inchess         X       Depth (inchess         X       Depth (inchess         X       Depth (inchess	a (B13) Plants (B14) Ilfide Odor (C1 zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): N/A ): N/A ): N/A ious inspection	1) Living Root (C4) iilled Soils (f ) Wetlan ns), if availa	C6) nd Hydrolo	Surface So Drainage F Dry-Seasc Crayfish B Saturation Stunted or X Geomorph X FAC-Neutr	bil Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) ral Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	/: Kenosha Count	ty	S	Sampling Date: 7/	18/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			-	e: WI	Sampling Point		DP-56	
Investigator(s):	K. Carlson, E. Englund				Section, Townsh	ip, Range: TWP 2N,	RNG 22E, SEC	2	
Landform (hillslope,	, terrace, etc.): Toeslope				Loc	al relief (concave, cor	nvex, none): cor	ncave	
Slope (%):	0% Lat:	42.662437		Long:	-8	37.872712		Datum: NAD83	UTM16N
Soil Map Unit Name	e: Am - Alluvial land						NWI classifica	ation: T3K	
Are climatic / hydro	logic conditions on the site typical for this time of y	/ear?		Yes	X No	(If no, explain	in Remarks.)		
Are Vegetation	N , Soil N	, or Hydrology	N significantly dis	turbed?	Are "Norma	al Circumstances" pre	esent?	Yes X No	o
Are Vegetation	N , Soil N	, or Hydrology	N naturally proble	matic?	(If needed,	explain any answers	in Remarks.)		
SUMMARY OF	FINDINGS Attach site map showing	sampling point loca	tions, transects, imp	ortant featur	es, etc.				
Hydrophytic Veg	getation Present?	Yes x	No	Is the	Sampled Are	ea			
Hydric Soil Pres		Yes x	No	within	n a Wetland?		Yes x	No	_
Wetland Hydrolo	ogy Present?	Yes x	No	_					
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	ns were normal. The feature	is a wet basin between tw	o converging road	dways.				
VEGETATION	Use scientific names of plants.					-			
T 0			Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	worksheet:		
1			·		·				
2. 3.					·	Number of Domina That Are OBL, FAC	-	4	(4)
3 4						That Are OBL, FAC	JW, OF FAC.	1	(A)
5.			·		·	Total Number of Do	ominant		
··			·	= Total Cover		Species Across All		1	(B)
					<u> </u>				(=)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	nt Species		
1.						That Are OBL, FAC	CW, or FAC:	100%	(A/B)
2.									
3.									
4.						Prevalence Index	worksheet:		
5.									
				= Total Cover		Total % C		Multiply	
						That Are OBL, FAC			A/B
Herb Stratum (Plot		_				OBL species	60%		0.6
1. Typha X glauca	1		60%	Yes	OBL	FACW species		x2 =	
2. 3.					·	FAC species FACU species		X3 =	
4.					·	UPL species			
5.					·	Column Totals:	0.60		0.6 (B)
6.			·			e el anni i fetale.			(5)
7.			·		·	Prevale	nce Index = B/A	A = 1.00	)
8.					·				
9.									
10.						Hydrophytic Vege	etation Indicato	ors:	
11.									
12.						X 1-Rapid T	est for Hydrophy	ytic Vegetation	
13.							nce Test is >509		
14					·		nce Index is ≤3.0		
15								ons <sup>1</sup> (Provide supp	porting
16								separate sheet)	
17					·	Problema	tic Hydrophytic	Vegetation <sup>1</sup> (Expl	ain)
18					·	1 and a stars of headed	1		
19			·		·	<sup>1</sup> Indicators of hydrid			l
20				Total Course	·	be present, unless	disturbed or pro	obiematic.	
			60%	= Total Cover					
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic			
1.						Vegetation			
2.			·		·	Present?	Yee	X No	
-· <u> </u>				= Total Cover			100_7		
				-					
Remarks: (Include	photo numbers here or on a separate sheet.)								
	e feature transition to reed canary grass.								

# SOIL Warning - Potential A12 Soils, Complete the Soil Profile

Sampling Point:

DP-56

epth	Matrix							
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3"	10YR 2/1	100			С	М	Mucky Peat	
3-36"	10YR 2/1	100			С	М	Mucky Clay Loam	
		<u> </u>					<b>-</b>	
1- 0.0					<u> </u>	· · ·	· - · · · · · ·	
	Concentration, D=Deplet	tion, RM=Reduced	d Matrix, CS=Covere	d or Coated San	nd Grains.		PL=Pore Lining, M=N	
•	ndicators <sup>3</sup> :		Sandy Cla	Active (CA)		l est il	idicators of Hydric S	
Histoso				eyed Matrix (S4)				ese Masses (F12)
	Epipedon (A2)		Sandy Red					v Dark Surface (F22)
	Histic (A3) Jen Sulfide (A4)		Stripped M Dark Surfa				X Other (Expla	in in Remarks)
` `				( )				
	ed Layers (A5)			icky Mineral (F1)				
	luck (A10) ed Below Dark Surface	(^44)	Depleted N	eyed Matrix (F2)				
	Dark Surface (A12)	(A11)		rk Surface (F6)			<sup>3</sup> The hydric soil ind	icators have been updated to
	Mucky Mineral (S1)			rk Surrace (F6) Dark Surface (F7	7\		•	Field Indicators of Hydric Soils
	lucky Peat or Peat (S3)			pressions (F8)	()			tates, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре:								
Depth (i	L A					ح متعلم بدالا	A - U. Barra - a - 10	Yes X No
emarks: nable to retr	ieve B horizon. B horizo	on assumed to be	depleted, meeting A	12, due to obvio	us hydrology	_	Soil Present?	NO
emarks: nable to retr	ieve B horizon. B horizo	on assumed to be	depleted, meeting A	12, due to obvio	us hydrology	_		NO
emarks: nable to retr	ieve B horizon. B horizo OGY drology Indicators:			12, due to obvio	us hydrology	_	cape position.	
emarks: Inable to retr HYDROL Netland Hyc Primary Indic	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one		k all that apply)			_	cape position.	ors (minimum of two required)
temarks: Inable to retr IYDROL Netland Hyo Primary Indic Surface	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one e Water (A1)		k all that apply) Water-Sta	ined Leaves (B9		_	cape position.	ors (minimum of two required) Cracks (B6)
emarks: Inable to retr HYDROLU Wetland Hyo Primary Indic Surface X High W	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one e Water (A1) 'ater Table (A2)		k all that apply) Water-Sta Aquatic Fa	ined Leaves (B9 auna (B13)		_	cape position. Secondary Indicato Surface Soil Drainage Pa	ors (minimum of two required) Cracks (B6) tterns (B10)
Armarks: Jnable to retr HYDROL Wetland Hyo Primary India Surface X High W X Saturat	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one e Water (A1) /ater Table (A2) iion (A3)		k all that apply) Water-Sta Aquatic Fa True Aqua	ined Leaves (B9 auna (B13) tic Plants (B14)	))	_	Secondary Indicato	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2)
Armarks: Jnable to retr HYDROL Wetland Hyc Primary Indic Surface X High W X Saturat Water I	ieve B horizon. B horizo OGY chology Indicators: cators (minimum of one e Water (A1) 'ater Table (A2) tion (A3) Marks (B1)		k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1	))	r and lands	Secondary Indicato	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8)
Armarks: Jnable to retr <b>HYDROL</b> Wetland Hyc Primary Indic Surface X High W X Saturat Water I Sedime	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) 'ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2)		k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on	)) 1) Living Roots	r and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Arrow and a second s	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) aposits (B3)		k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron	)) 1) Living Roots (C4)	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1)
Armarks: Jnable to retr <b>HYDROL</b> Wetland Hyce Primary Indic Surface X High W X Saturat Water I Sedime Drift De Algal M	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4)		k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 khizospheres on of Reduced Iron n Reduction in T	)) 1) Living Roots (C4)	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
emarks: Inable to retr Inable to retr Vetland Hyc Primary Indic Surface X High W X Saturat Water I Sedime Drift De Algal M Iron De	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) /ater Table (A2) tion (A3) Marks (B1) ant Deposits (B2) aposits (B3) lat or Crust (B4) aposits (B5)	is required: check	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron n Reduction in T Surface (C7)	)) 1) Living Roots (C4)	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
emarks: Inable to retr Inable to retr Vetland Hyc Primary Indic Surface X High W X Saturat Water I Sedime Drift De Algal M Iron De Inundat	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4)	is required: check	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 khizospheres on of Reduced Iron n Reduction in T	1) Living Roots (C4) illed Soils (C	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Armarks: Jnable to retr Primary Indic Surface X High W X Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) posits (B5) tion Visible on Aerial Im- ly Vegetated Concave 3	is required: check	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9)	1) Living Roots (C4) illed Soils (C	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Algal M Inable to retr Algal M Primary Indic Surface X High W X Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse Field Observ	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) l'ater Table (A2) iion (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) aposits (B5) iion Visible on Aerial Im- ly Vegetated Concave in vations:	is required: check agery (B7) Surface (B8)	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9) plain in Remarks	1) Living Roots (C4) illed Soils (C	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Remarks:         Inable to retr         Inable to retr         Wetland Hyc         Primary Indic         Surface         X         High W         X         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) Yater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Im- ly Vegetated Concave si vations: er Present?	is required: check agery (B7) Surface (B8) Yes No	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or 1 Other (Exp X	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron of Reduction in T Surface (C7) Well Data (D9) plain in Remarks; nes): <u>N/A</u>	1) Living Roots (C4) illed Soils (C	and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Arrian and an arrival an arrival an arrival an arrival and an arrival an arrival an arrival an arrival and an arrival	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) Vater Table (A2) iion (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) iposits (B5) iion Visible on Aerial Im- ly Vegetated Concave S vations: er Present? Present?	is required: check agery (B7) Surface (B8) YesNo YesNo	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or 1 Other (Exp X Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron in Reduction in T Surface (C7) Well Data (D9) plain in Remarks plain in Remarks N/A es): <u>N/A</u>	)) Living Roots (C4) illed Soils (C	2 and lands	Cape position. Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S X Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Armarks: Jnable to retr Armanue to ret	ieve B horizon. B horizo OGY chology Indicators: cators (minimum of one a Water (A1) Vater Table (A2) cition (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) aposits (B5) cition Visible on Aerial Im- ly Vegetated Concave a vations: er Present? Present?	is required: check agery (B7) Surface (B8) Yes No	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro Thin Muck Gauge or 1 Other (Exp X Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron of Reduction in T Surface (C7) Well Data (D9) plain in Remarks; nes): <u>N/A</u>	)) Living Roots (C4) illed Soils (C	2 and lands	Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Buri X Saturation Vi Stunted or S X Geomorphic	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Arright Sedemarks: Inable to retr Inable to retr Arright Surface Arright W Arright W Arright W Arright W Arright W Arright We Alight M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	ieve B horizon. B horizo OGY crology Indicators: cators (minimum of one a Water (A1) (ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) sposits (B5) ition Visible on Aerial Im- ity Vegetated Concave is vations: er Present? Present? resent? billary fringe)	is required: check agery (B7) Surface (B8) Yes No Yes X No	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or N Other (Exp X Depth (inch Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9) plain in Remarks es): <u>N/A</u> es): <u>7"</u> es): <u>Surface</u>	) 1) Living Roots (C4) iilled Soils (C ) Wetland	r and lands ; (C3) ;;() d Hydrolog	Cape position. Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S X Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Arright Sedemarks: Inable to retr Inable to retr Arright Surface Arright W Arright W Arright W Arright W Arright W Arright We Alight M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	ieve B horizon. B horizo OGY chology Indicators: cators (minimum of one a Water (A1) Vater Table (A2) cition (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) aposits (B5) cition Visible on Aerial Im- ly Vegetated Concave a vations: er Present? Present?	is required: check agery (B7) Surface (B8) Yes No Yes X No	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or N Other (Exp X Depth (inch Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9) plain in Remarks es): <u>N/A</u> es): <u>7"</u> es): <u>Surface</u>	) 1) Living Roots (C4) iilled Soils (C ) Wetland	r and lands ; (C3) ;;() d Hydrolog	Cape position. Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S X Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Arright Sedemarks: Inable to retr Inable to retr Arright Surface Arright W Arright W Arright W Arright W Arright W Arright We Alight M Iron De Inundat Sparse Field Observ Surface Wate Water Table Saturation Pr (includes cap	ieve B horizon. B horizo OGY crology Indicators: cators (minimum of one a Water (A1) (ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) sposits (B5) ition Visible on Aerial Im- ity Vegetated Concave is vations: er Present? Present? resent? billary fringe)	is required: check agery (B7) Surface (B8) Yes No Yes X No	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or N Other (Exp X Depth (inch Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 Rhizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9) plain in Remarks es): <u>N/A</u> es): <u>7"</u> es): <u>Surface</u>	) 1) Living Roots (C4) iilled Soils (C ) Wetland	r and lands ; (C3) ;;() d Hydrolog	Cape position. Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S X Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Armarks: Inable to retr Arman	ieve B horizon. B horizo OGY drology Indicators: cators (minimum of one a Water (A1) /ater Table (A2) ition (A3) Marks (B1) ant Deposits (B2) aposits (B3) lat or Crust (B4) aposits (B5) ition Visible on Aerial Im- ly Vegetated Concave a vations: er Present? Present? Present? present? corded Data (stream g	is required: check agery (B7) Surface (B8) Yes <u>No</u> Yes <u>X</u> No Yes <u>X</u> No auge, monitoring v	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or V Other (Exp X Depth (inch Depth (inch Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 khizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9) olain in Remarks es): <u>N/A</u> es): <u>7"</u> es): <u>Surface</u>	) 1) Living Roots (C4) iilled Soils (C ) Wetland	r and lands ; (C3) ;;() d Hydrolog	Cape position. Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S X Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Armarks: Inable to retr Arman	ieve B horizon. B horizo OGY crology Indicators: cators (minimum of one a Water (A1) (ater Table (A2) ition (A3) Marks (B1) ent Deposits (B2) aposits (B3) lat or Crust (B4) sposits (B5) ition Visible on Aerial Im- ity Vegetated Concave is vations: er Present? Present? resent? billary fringe)	is required: check agery (B7) Surface (B8) Yes <u>No</u> Yes <u>X</u> No Yes <u>X</u> No auge, monitoring v	k all that apply) Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized R Presence Recent Iro Thin Muck Gauge or V Other (Exp X Depth (inch Depth (inch Depth (inch	ined Leaves (B9 auna (B13) tic Plants (B14) Sulfide Odor (C1 khizospheres on of Reduced Iron n Reduction in T Surface (C7) Well Data (D9) olain in Remarks es): <u>N/A</u> es): <u>7"</u> es): <u>Surface</u>	) 1) Living Roots (C4) iilled Soils (C ) Wetland	r and lands ; (C3) ;;() d Hydrolog	Cape position. Secondary Indicato Surface Soil Drainage Pa Dry-Season Crayfish Burn X Saturation Vi Stunted or S X Geomorphic X FAC-Neutral	ors (minimum of two required) Cracks (B6) tterns (B10) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/Count	y: Kenosha Count	ty	S	ampling Date: 7/1	18/2018
Applicant/Owner:	Wisconisn Dept. of Transportation				State	e: WI	Sampling Point		DP-57	
Investigator(s):	K. Carlson, E. Englund					Section, Townshi	ip, Range: <u>TWP 2N, I</u>	RNG 22E, SEC	2	
Landform (hillslope,	, terrace, etc.): Footslope					Loc	al relief (concave, cor	vex, none): cor	ncave	
Slope (%):	2% Lat:	42.662479			Long:	-8	87.872678		Datum: NAD83	UTM16N
Soil Map Unit Name	e: Am - Alluvial land							NWI classifica	ation: T3K	
Are climatic / hydrol	logic conditions on the site typical for this time of	/ear?			Yes	X No	(If no, explain i	n Remarks.)		
Are Vegetation	N , Soil N	, or Hydrology	N sig	nificantly dist	turbed?	Are "Norma	al Circumstances" pre	sent?	Yes X No	۰ <u> </u>
Are Vegetation	N, Soil N	, or Hydrology	N na	turally proble	matic?	(If needed,	explain any answers	in Remarks.)		
SUMMARY OF	FINDINGS Attach site map showing	sampling point loca	ations, trans	sects, imp	ortant featur	res, etc.				
Hydrophytic Veg	getation Present?	Yes x	No		Is the	e Sampled Are	ea			
Hydric Soil Pres		Yes x	No		withi	in a Wetland?		Yes x	No	_
Wetland Hydrolo	ogy Present?	Yes <u>x</u>	No_		-					
Remarks: WETS analysis det	termined that the antecedent precipitation conditio	ns were normal.								
VEGETATION ·	Use scientific names of plants.									
Tree Streture (Dist	eizer 20' rediue)			Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30 radius)		_	% Cover 35%	Species? Yes	Status	Dominance Test v	vorksheet:		
<ol> <li>Salix nigra</li> <li>Populus deltoid</li> </ol>				35%	Yes	OBL FAC	Number of Dominal	at Spacias		
3. Acer negundo	65			5%	No	FAC	That Are OBL, FAC		7	(A)
4.				070			mar ne obe, i ne	w, or 17.0.	·	(//
5.							Total Number of Do	minant		
				70%	= Total Cover		Species Across All		7	(B)
									-	
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Dominar	nt Species		
1. Rhamnus catha	artica			15%	Yes	FAC	That Are OBL, FAC	W, or FAC:	100%	(A/B)
2. Ribes hirtellum				5%	Yes	FACW				
3.										
4							Prevalence Index v	vorksheet:		
5.										
				20%	= Total Cover		Total % Co That Are OBL, FAC		Multiply	/ by: A/B
Herb Stratum (Plot	size: 5' radius)						OBL species	35%	x1 = 0	).35
1. Phalaris arundii		_		15%	Yes	FACW	FACW species	25%		0.5
2. Rhamnus catha	artica			5%	Yes	FAC	FAC species	58%	x3 = 1	1.74
3. Toxicodendron	rydbergii			3%	No	FAC	FACU species		x4 =	
4.							UPL species		x5 =	
5.							Column Totals:	1.18	(A) 2	2.59 (B)
6										
7							Prevale	nce Index = B/A	A =2.19	)
8										
9										
10							Hydrophytic Vege	tation Indicato	vrs:	
11 12.							1 Ropid T	est for Hydrophy		
13.			·					nce Test is >50%		
14.								ice Index is ≤3.0		
15.							4-Morphol	ogical Adaptatic	ons <sup>1</sup> (Provide supp	porting
16.							data in Re	marks or on a	separate sheet)	
17.							Problema	ic Hydrophytic	Vegetation <sup>1</sup> (Expla	ain)
18.										
19							<sup>1</sup> Indicators of hydric	soil and wetlar	nd hydrology must	t
20						<u> </u>	be present, unless	disturbed or pro	oblematic.	
				23%	= Total Cover					
	m (Plot size: 30' radius)			<b>F</b> 0/	¥-	FAOIN	Hydrophytic			
1. Vitis riparia				5%	Yes	FACW	Vegetation	Yee	V No	
2				5%	= Total Cover		Present?	res_/	KNo	
			_	570	- 10/01/00/01					
Remarks: (Include Herbaceous cover i	photo numbers here or on a separate sheet.) is variable.						+			

Depth	cription: (Describe to the Matrix	aepui needed		dox Features	in in the ab	sence or If	iuicaturs.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5"	10YR 2/1	100					Loam	
5-23"	10YR 2/1		7.5YR 4/6	30	С	M		
		70				<u>M</u>	Clay Loam	
23-29"	10YR 5/1	90	10YR 6/8	10	С	M	Clay Loam	
		·						
,,	Concentration, D=Depletion	n, RM=Reduced	Matrix, CS=Covered c	or Coated San	d Grains.		PL=Pore Lining, M=	
Hydric Soil						Test Ir	ndicators of Hydric	
Histoso	( )		Sandy Gleye					nese Masses (F12)
	Epipedon (A2)		Sandy Redox Stripped Mat					w Dark Surface (F22) ain in Remarks)
	Histic (A3) gen Sulfide (A4)		Dark Surface					an in Remarks)
	ed Layers (A5)			y Mineral (F1)				
	Muck (A10)		Loamy Gleye					
	ed Below Dark Surface (A	11)	Depleted Mat	. ,				
	Dark Surface (A12)	,	X Redox Dark				<sup>3</sup> The hydric soil in	dicators have been updated to
	Mucky Mineral (S1)			rk Surface (F7	.)		•	e Field Indicators of Hydric Soils
5 cm N	Aucky Peat or Peat (S3)		Redox Depre					States, Version 8.0, 2016.
Restrictive I	Layer (if observed):							
Type:	Layer (il observed).							
	(inches):					Hydric S	Soil Present?	Yes X No
HYDROL	067							
	drology Indicators:							
-	cators (minimum of one is	required: check	all that apply)				Secondary Indica	tors (minimum of two required)
	e Water (A1)			ed Leaves (B9)	)			il Cracks (B6)
	Vater Table (A2)		Aquatic Faun	. ,				atterns (B10)
	tion (A3)		True Aquatic					n Water Table (C2)
Water	Marks (B1)		Hydrogen Su	llfide Odor (C1	)		Crayfish Bu	irrows (C8)
Sedim	ent Deposits (B2)		Oxidized Rhiz	zospheres on l	Living Roots	s (C3)	Saturation	visible on Aerial Imagery (C9)
Drift De	eposits (B3)		Presence of	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
	/lat or Crust (B4)		Recent Iron F	Reduction in Ti	illed Soils (C	26)	X Geomorphi	
Iron De	eposits (B5)		Thin Muck Su	urface (C7)			X FAC-Neutra	al Test (D5)
	tion Visible on Aerial Image	,	Gauge or We	ell Data (D9)				
Sparse	ely Vegetated Concave Sur	rface (B8)	Other (Explai	in in Remarks)				
	vations:							
Field Obser	vations.			): N/A				
Field Obser Surface Wat		/es No D	X Depth (inches)					
	ter Present?	/esNo /esNo		·				
Surface Wat	ter Present? Y Present? Y		X Depth (inches)	): N/A	Wetlan	d Hydrolog	gy Present?	Yes X No
Surface Wat Water Table Saturation P	ter Present? Y Present? Y	res No	X Depth (inches)	): N/A	Wetlan	d Hydrolog	gy Present?	Yes <u>X</u> No
Surface Water Table Water Table Saturation P (includes cap	ter Present? Y e Present? Y Present? Y	/esNo /esX_No	X Depth (inches)	): N/A ): 21"			gy Present?	Yes <u>X</u> No
Surface Water Table Water Table Saturation P (includes cap	ter Present? Y Present? Y Present? Y pillary fringe)	/esNo /esX_No	X Depth (inches)	): N/A ): 21"			gy Present?	Yes <u>X</u> No
Surface Wat Water Table Saturation P (includes ca Describe Re	ter Present? Y Present? Y Present? Y pillary fringe)	/esNo /esX_No	X Depth (inches)	): N/A ): 21"			gy Present?	Yes <u>X</u> No
Surface Wat Water Table Saturation P (includes cap Describe Re Remarks:	ter Present? Y 9 Present? Y 9 resent? Y pillary fringe) ecorded Data (stream gaug	/es No /es _X No ge, monitoring v	X Depth (inches) Depth (inches) vell, aerial photos, prev	): N/A ): 21"			gy Present?	Yes <u>X</u> No
Surface Wat Water Table Saturation P (includes cap Describe Re Remarks:	ter Present? Y Present? Y Present? Y pillary fringe)	/es No /es _X No ge, monitoring v	X Depth (inches) Depth (inches) vell, aerial photos, prev	): N/A ): 21"			gy Present?	Yes <u>X</u> No
Surface Wat Water Table Saturation P (includes cap Describe Re Remarks:	ter Present? Y 9 Present? Y 9 resent? Y pillary fringe) ecorded Data (stream gaug	/es No /es _X No ge, monitoring v	X Depth (inches) Depth (inches) vell, aerial photos, prev	): N/A ): 21"			gy Present?	Yes <u>X</u> No
Surface Wat Water Table Saturation P (includes cap Describe Re Remarks:	ter Present? Y 9 Present? Y 9 resent? Y pillary fringe) ecorded Data (stream gaug	/es No /es _X No ge, monitoring v	X Depth (inches) Depth (inches) vell, aerial photos, prev	): N/A ): 21"			gy Present?	Yes <u>X</u> No

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	y: Kenosha Count	v	Sa	ampling Date: 7/18	/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			-	e: WI	Sampling Point:		DP-58	
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	p, Range: TWP 2N, RM	√G 22E, SEC ;	2	
Landform (hillslope,	terrace, etc.): Shoulder				Loca	al relief (concave, conve	ex, none): con	vex	
Slope (%):	3% Lat:	42.662542		Long:	-8	37.872843		Datum: NAD83 U	TM16N
Soil Map Unit Name	e: Am - Alluvial land					. <u> </u>	NWI classificat	tion: <u>T3K</u>	
Are climatic / hydro	logic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in	Remarks.)		
Are Vegetation	N, Soil N	, or Hydrology N	significantly dis	turbed?	Are "Norma	al Circumstances" prese	ant?	Yes X No	
Are Vegetation	N , Soil N	, or Hydrology N	naturally proble	matic?	(If needed,	explain any answers in	Remarks.)		
	FINDINGS Attach site map showing	sampling point location	s, transects, imp	ortant featur	es, etc.				
	getation Present?	Yes x	No	-	e Sampled Are				
Hydric Soil Pres Wetland Hydrold		Yes Yes	No <u>x</u> No x	withi	n a Wetland?		Yes	No <u>x</u>	
	by riesent:	165		-					
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	s were normal. Heavily disturbed	d site due to recent bil	ke path construct	tion. RCG monocu	ilture creeps upslope al	along roadsid	le.	
VEGETATION	Use scientific names of plants.					_			
			Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test wo	rksheet:		
1 2.			· ·			Number of Dominant	Species		
3.				·		That Are OBL, FACW		1	(A)
4.					·	11101740 002, 17101	,	· · ·	
5.						Total Number of Dom	inant		
				= Total Cover		Species Across All S	trata:	1	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominant			
1						That Are OBL, FACW	I, or FAC:	100%	(A/B)
2									
3						Browslands Index w			
4 5.						Prevalence Index wo	rksneet:		
5.				= Total Cover		Total % Cov	er of:	Multiply b	IV:
				-		That Are OBL, FACW			A/B
Herb Stratum (Plot	size: 5' radius)					OBL species		x1 =	
1. Phalaris arundii	nacea		95%	Yes	FACW	FACW species	95%	x2 = 1.	Э
2. Cirsium arvense	e		5%	No	FACU	FAC species		x3 =	
3						FACU species	5%	x4 =	2
4						UPL species	4.00	x5 =	(D)
5 6.						Column Totals:	1.00	(A) 2.	1 (B)
7.						Prevalenc	e Index = B/A	= 2.10	
8.						Tronalonio	o maox – Birr		
9.									
10.						Hydrophytic Vegeta	tion Indicato	rs:	
11.									
12.						X 1-Rapid Tes	t for Hydrophy	tic Vegetation	
13						X 2-Dominance			
14.							e Index is ≤3.0	ns <sup>1</sup> (Provide suppo	rting
15									lung
16 17.								eparate sheet) /egetation <sup>1</sup> (Explai	n)
18.				·				-3	,
19.						<sup>1</sup> Indicators of hydric s	oil and wetlan	d hydrology must	
20.						be present, unless di	sturbed or pro	blematic.	
			100%	= Total Cover					
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic			
1						Vegetation			
2						Present?	Yes X	No	
				= Total Cover					
	photo numbers here or on a separate sheet.) extends upslope from the wetland.					Į			

	ription: (Describe to the	e depth needed t			firm the ab	sence of inc	dicators.)	
Depth	Matrix			dox Features	<del></del> 1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20"	10YR 3/2	100				·	Loam	
20-24"	10YR 3/3	100					Clay Loam	
		·						
								_
		• <u> </u>					·	
<sup>1</sup> Type: C=C	concentration, D=Depletio	n RM=Reduced I	Matrix CS=Covered o	r Coated San	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix
Hydric Soil Ir							dicators of Hydric S	
Histoso			Sandy Gleyed	d Matrix (S4)			•	nese Masses (F12)
	pipedon (A2)		Sandy Redox					w Dark Surface (F22)
	listic (A3)		Stripped Matr					ain in Remarks)
	en Sulfide (A4)		Dark Surface				、 .	,
	d Layers (A5)		Loamy Mucky	. ,				
	luck (A10)		Loamy Gleye					
Deplete	ed Below Dark Surface (A	(11)	Depleted Mat					
	ark Surface (A12)		Redox Dark S				<sup>3</sup> The hydric soil ind	dicators have been updated to
	Mucky Mineral (S1)			k Surface (F7	<b>'</b> )			e Field Indicators of Hydric Soils
5 cm M	lucky Peat or Peat (S3)		Redox Depres	ssions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive I	ayer (if observed):							
Type:								
Depth (ir	nches):					Hydric Se	oil Present?	Yes No X
Remarks:								
HYDROL	OGY							
Wetland Hyd	Irology Indicators:							
	ators (minimum of one is	required: check a	11 27					ors (minimum of two required)
Surface	e Water (A1)		Water-Staine	d Leaves (B9)	)		Surface Soi	l Cracks (B6)
High Wa	ater Table (A2)		Aquatic Fauna				Drainage Pa	atterns (B10)
Saturati	ion (A3)		True Aquatic	Plants (B14)				Water Table (C2)
	Marks (B1)		/ *	lfide Odor (C1	,		Crayfish Bu	
	ent Deposits (B2)			cospheres on l	-	s (C3)		/isible on Aerial Imagery (C9)
	eposits (B3)			Reduced Iron				Stressed Plants (D1)
	at or Crust (B4)			Reduction in Ti	illed Soils (C	;6)	·	c Position (D2)
	posits (B5)		Thin Muck Su				FAC-Neutra	al Test (D5)
	ion Visible on Aerial Imag		Gauge or We	. ,				
Sparsel	ly Vegetated Concave Su	ırface (B8)	Other (Explain	n in Remarks)	)			
Field Observ	ations:							
Surface Wate	er Present?	Yes No X	Depth (inches)	): N/A				
Water Table	Present?	Yes No X	Depth (inches)	): N/A				
Saturation Pr	esent?	Yes No X	Depth (inches)	): <u>N/A</u>	Wetlan	d Hydrolog	y Present?	Yes NoX
(includes cap	illary fringe)							
Describe Red	corded Data (stream gau	ige, monitoring we	ll, aerial photos, previ	ous inspectior	ns), if availal	ble:		
Remarks:								
No wetland ny	drology was observed.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County:	Kenosha Count	ly	Sampling Date: 7/18/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State:	WI	Sampling Point:	DP-59	
Investigator(s):	K. Carlson, E. Englund				Section, Townshi	ip, Range: TWP 2N, RNG 2	22E, SEC 2	
Landform (hillslope,	terrace, etc.): Toeslope				Loc	al relief (concave, convex, n	none): concave	
Slope (%):	2% Lat:	42.664392		Long:	-8	87.871559	Datum: NAD83 UTM16N	
Soil Map Unit Name	e: Am - Alluvial land					NWI	I classification: None	
Are climatic / hydrol	ogic conditions on the site typical for this time of y	ear?		Yes	X No	(If no, explain in Rem	narks.)	
Are Vegetation	N , Soil N	, or Hydrology	N significantly dist	urbed?	Are "Norma	al Circumstances" present?	Yes No X	
Are Vegetation	N , Soil Y	, or Hydrology	N naturally proble	matic?	(If needed,	explain any answers in Rer		
SUMMARY OF	FINDINGS Attach site map showing	sampling point locat	tions, transects, imp	ortant feature	es, etc.			
	getation Present?	Yes x	No		Sampled Are	ea		
Hydric Soil Pres		Yes x	No		a Wetland?		s x No	
Wetland Hydrold	ogy Present?	Yes x	No					
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	is were normal. The feature	is a wooded swamp assoc	iated with a stream	m.			
VEGETATION -	<ul> <li>Use scientific names of plants.</li> </ul>							
Tes a Otracture (Dist			Absolute	Dominant	Indicator			
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test works	heet:	
1. Salix nigra			40%	Yes	OBL	Number of Deminent One		
2. Populus deltoid	es		25%	Yes	FAC FAC	Number of Dominant Spe		
<ol> <li>Acer negundo</li> <li>Acer saccharinu</li> </ol>	100		2%	No	FAC	That Are OBL, FACW, or	r FAC: 6 (A)	
5.	<i>a</i> m		2.70	110	FAGW	Total Number of Dominan	ot	
5			77%	= Total Cover		Species Across All Strata		
			1170			opecies Across Air Strata		
Sapling/Shrub Strat	um (Plot size: 15' radius)					Percent of Dominant Spe	cies	
1. Acer negundo			5%	Yes	FAC	That Are OBL, FACW, or		
2. Salix interior			5%	Yes	FACW			
3.				·				
4.						Prevalence Index works	heet:	
5.								
			10%	= Total Cover		Total % Cover of		
						That Are OBL, FACW, or	FAC: A/B	
Herb Stratum (Plot	size: 5' radius)	_				OBL species	40% x1 = 0.4	
1. Phalaris arundir			30%	Yes	FACW	· · · · · · · · · · · · · · · · · · ·	67% x2 = 1.34	
2. Impatiens cape			20%	Yes	FACW	·	40% x3 = 1.2	
3. Solidago gigant	ea		10%	No	FACW	FACU species	X4 =	
4				·		UPL species	x5 =(B)	
5				·		Column Totals:	<u>1.47</u> (A) <u>2.94</u> (B)	
6 7.				·		Prevalence In	idex = B/A = 2.00	
8.			·	·		i levalence m		
9.			·	·				
10.				·		Hydrophytic Vegetation	Indicators:	
11.			· · · · · · · · · · · · · · · · · · ·	·				
12.				·		1-Rapid Test for	Hydrophytic Vegetation	
13.						X 2-Dominance Te	est is >50%	
14.				·		X 3-Prevalence Inc	dex is ≤3.0 <sup>1</sup>	
15.				·		4-Morphological	Adaptations <sup>1</sup> (Provide supporting	
16.						data in Remarks	s or on a separate sheet)	
17.						Problematic Hyd	drophytic Vegetation <sup>1</sup> (Explain)	
18								
19						<sup>1</sup> Indicators of hydric soil a	and wetland hydrology must	
20						be present, unless disturt	bed or problematic.	
			60%	= Total Cover				
	n (Plot size: 30' radius)					Hydrophytic		
1				·		Vegetation		
2				Total Course		Present?	Yes <u>X</u> No	
				= Total Cover				
Remarks: (Include	photo numbers here or on a separate sheet.)					4		
The herbaceous is o								
Profile Descr	iption: (Describe to th	e depth need	ed to document the ind	icator or con	firm the ab	sence of in	dicators.)	
--------------------------	---------------------------	-----------------	-----------------------------	------------------	-------------------	------------------------	---------------------------------	------------------------------------
Depth	Matrix		Re	dox Features			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8"	10YR 3/2	100					Loam	
8-20"	10YR 5/2	100					Silt Loam	
20-24"	10YR 3/3	98	7.5YR 4/4	2	С	М	Silt Loam	
				·				
		·					· ·	
	oncentration D-Depletio	n RM-Reduc	ed Matrix, CS=Covered	or Coated San	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix
Hydric Soil In							dicators of Hydric	
Histosol			Sandy Gleve	d Matrix (S4)			-	nese Masses (F12)
	oipedon (A2)		Sandy Redo					w Dark Surface (F22)
· · · · ·	istic (A3)		Stripped Mat					ain in Remarks)
Hydroge	en Sulfide (A4)		Dark Surface	e (S7)				
Stratified	d Layers (A5)		Loamy Muck	y Mineral (F1)				
2 cm Mu	uck (A10)		Loamy Gleye	ed Matrix (F2)				
Deplete	d Below Dark Surface (A	.11)	Depleted Ma	trix (F3)				
Thick Da	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been updated to
Sandy N	/lucky Mineral (S1)		Depleted Da	rk Surface (F7	7)		comply with the	e Field Indicators of Hydric Soils
5 cm Mu	ucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive La	ayer (if observed):							
Туре:								
Depth (ir	nches):					Hydric S	oil Present?	Yes <u>X</u> No
Remarks:								
some hydric in	dicators.							
HYDROLO	DGY							
Wetland Hyd	rology Indicators:							
Primary Indica	ators (minimum of one is	required: che	ck all that apply)				Secondary Indicat	tors (minimum of two required)
Surface	Water (A1)		X Water-Staine	ed Leaves (B9	)		Surface So	il Cracks (B6)
High Wa	ater Table (A2)		Aquatic Faur	na (B13)			X Drainage P	atterns (B10)
Saturati	on (A3)		True Aquatic	Plants (B14)			Dry-Seasor	n Water Table (C2)
Water N	/arks (B1)		Hydrogen Su	ulfide Odor (C1	1)		Crayfish Bu	rrows (C8)
	nt Deposits (B2)			zospheres on	0	s (C3)	Saturation \	/isible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence of	Reduced Iron	(C4)		Stunted or S	Stressed Plants (D1)
	at or Crust (B4)			Reduction in T	illed Soils (C	6)	X Geomorphi	
· · ·	oosits (B5)		Thin Muck S				FAC-Neutra	al Test (D5)
	on Visible on Aerial Imag		Gauge or W					
Sparsely	y Vegetated Concave Su	irface (B8)	Other (Expla	in in Remarks	)			
Field Observation	ations:							
Surface Wate	er Present?	Yes No	X Depth (inches	): N/A				
Water Table	Present?	Yes No	X Depth (inches	): <u>N/A</u>				
Saturation Pro	esent?	Yes No	X Depth (inches	): N/A	Wetlan	d Hydrolog	y Present?	Yes X No
(includes capi								
Describe Rec	corded Data (stream gau	ige, monitoring	g well, aerial photos, prev	vious inspection	ns), if availa	ble:		
Domester								
Remarks: Drainage way	meets with the Pike Rive	r. Understorv	is sparsley vegetated alc	ong the drainag	ne wav			
		chasiology			<u> </u>			

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County:	Kenosha Count	y	Sampling Date: 7/18/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			State:		Sampling Point:	DP-60
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 2N, RNG	22E, SEC 2
Landform (hillslope,						al relief (concave, convex,	
Slope (%):	10% Lat:	42.664409		Long:		7.871623	Datum: NAD83 UTM16N
Soil Map Unit Name				·			VI classification: None
	logic conditions on the site typical for this time of ye	ear?		Yes	X No	(If no, explain in Re	
Are Vegetation	N , Soil N	, or Hydrology N	significantly distu	-		al Circumstances" present	
Are Vegetation	N , Soil N	, or Hydrology N				explain any answers in Re	
	FINDINGS Attach site map showing						
	getation Present?	Yes x	No		Sampled Are		
Hydric Soil Pres		Yes	No x		a Wetland?		esNox
Wetland Hydrold		Yes	No X				
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	s were normal. The point is in a	a wooded roadside.				
VEGETATION -	Use scientific names of plants.						
			Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test work	sheet:
1. Juglans nigra			25%	Yes	FACU		
2. Acer negundo			20%	Yes	FAC	Number of Dominant Sp	
3.						That Are OBL, FACW, o	or FAC: 5 (A)
4							
5						Total Number of Domina	
			45%	= Total Cover		Species Across All Strat	tta: 7 (B)
	um (Plot size: 15' radius)		50/		540	Percent of Dominant Sp	
1. Acer negundo			<u> </u>	Yes	FAC	That Are OBL, FACW, o	or FAC: 71% (A/B)
2. Salix interior			5%	Yes	FACW		
3						Drevelence Index work	reh est.
4						Prevalence Index work	sneet:
5.			10%	= Total Cover		Total % Cover of	of Multiply by
			10%	= Total Cover		That Are OBL, FACW, of	
Herb Stratum (Plot	size: 5' radius)					OBL species	x1 =
1. Phalaris arundir		-	30%	Yes	FACW	FACW species	35% x2 = 0.7
2. Poa pratensis			15%	Yes	FAC	FAC species	47% x3 = 1.41
3. Hesperis matro	nalis		15%	Yes	FACU	FACU species	50% x4 = 2
4. Arctium minus			10%	No	FACU	UPL species	5% x5 = 0.25
5. Daucus carota			5%	No	UPL	Column Totals:	1.37 (A) 4.36 (B)
6. Alliaria petiolata	3		5%	No	FAC		
7. Ambrosia trifida	1		2%	No	FAC	Prevalence I	Index = B/A = 3.18
8.							
9.							
10						Hydrophytic Vegetatio	on Indicators:
11							
12						1-Rapid Test fo	or Hydrophytic Vegetation
13.						X 2-Dominance T	
14						3-Prevalence Ir	
15							al Adaptations <sup>1</sup> (Provide supporting
16							rks or on a separate sheet)
17						Problematic Hy	ydrophytic Vegetation <sup>1</sup> (Explain)
18						1	
19						-	l and wetland hydrology must
20						be present, unless distu	irbed or problematic.
			82%	= Total Cover			
Weedy Vier - Oter	(Plataiza)					Under a back	
	n (Plot size: 30' radius)					Hydrophytic	
1						Vegetation	
2				Total Course		Present?	Yes <u>X</u> No
				= Total Cover			
Remarke: (Include	photo numbers here or on a separate sheet.)					Į	
	is extending upslope from the wetland.						

Profile Desc	ription: (Describe to the	depth needed	to document the ind	icator or conf	irm the ab	sence of in	dicators.)		
Depth	Matrix		Re	dox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	ırks
0-10"	10YR 3/3	100					Loam		
10-20"	10YR 6/6	70	10YR 2/2	30	С	М	Silt Loam		
				-					
				•					
		·					· ·		
				•					
	concentration, D=Depletion	RM-Reduced	Matrix CS-Covered	or Coated San	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix	
Hydric Soil I		i, ittii=iteddocd		Ji Coulca Carl			dicators of Hydric		
Histoso			Sandy Gleye	ed Matrix (S4)			-	nese Masses (F12)	
	pipedon (A2)		Sandy Redox					w Dark Surface (F22	)
	listic (A3)		Stripped Mat					ain in Remarks)	
Hydrog	en Sulfide (A4)		Dark Surface	ə (S7)					
Stratifie	ed Layers (A5)		Loamy Muck	xy Mineral (F1)					
2 cm M	luck (A10)		Loamy Gleye	ed Matrix (F2)					
Deplete	ed Below Dark Surface (A	11)	Depleted Ma	trix (F3)					
	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been u	odated to
	Mucky Mineral (S1)			rk Surface (F7	)			e Field Indicators of I	
5 cm M	lucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	States, Version 8.0, 2	016.
Restrictive L	ayer (if observed):								
Туре:									
Depth (i	nches):					Hydric S	oil Present?	Yes	No X
HYDROL	OGY								
Wetland Hyd	rology Indicators:								
Primary Indic	ators (minimum of one is	required: check	all that apply)				Secondary Indica	tors (minimum of two	required)
Surface	e Water (A1)		Water-Staine	ed Leaves (B9)	)		Surface So	il Cracks (B6)	
	ater Table (A2)		Aquatic Faur				Drainage P	atterns (B10)	
Saturat	ion (A3)		True Aquatic	Plants (B14)			Dry-Seasor	n Water Table (C2)	
	Marks (B1)		Hydrogen Su	ulfide Odor (C1	)		Crayfish Bu		
	ent Deposits (B2)			zospheres on l	0	(C3)		isible on Aerial Imag	ery (C9)
	eposits (B3)			Reduced Iron				Stressed Plants (D1)	
	at or Crust (B4)			Reduction in Ti	lled Soils (C	6)		c Position (D2)	
—	posits (B5)		Thin Muck Su	. ,			FAC-Neutra	al Test (D5)	
	ion Visible on Aerial Imag		Gauge or We						
Sparse	ly Vegetated Concave Su	rface (B8)	Other (Explai	in in Remarks)					
Field Observ	ations:								
Surface Wate	er Present?	Yes <u>No X</u>	Depth (inches	s): N/A					
Water Table	Present?	Yes No X	Depth (inches	s): N/A					
Saturation Pr	resent?	Yes <u>No X</u>	Depth (inches	s): <u>N/A</u>	Wetlan	d Hydrolog	y Present?	Yes	No <u>X</u>
(includes cap									
Describe Re	corded Data (stream gau	ge, monitoring w	ell, aerial photos, prev	ious inspectior	ns), if availal	ole:			
Description									
Remarks: No wetland by	drology was observed.								
No wettand hy	arology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Count	ty	s	Sampling Date:	7/18/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point		. 0 DP-61		
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 2N, I				
Landform (hillslope,						al relief (concave, cor				
Slope (%):	1% Lat:	42.666137		Long:		87.87049	wex, none). 00	Datum: NAD	83 LITM16N	
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slope			Long.		01.01043	NWI classifica			<u>.</u>
-	logic conditions on the site typical for this time of			Voc	X No	(If no, explain i	-		-	-
			N					V V	Nie	
Are Vegetation	N , Soil N		N significantly dist			al Circumstances" pre		Yes X		_
Are Vegetation	N , Soil N	_ , , , ,	N naturally problem			explain any answers	in Remarks.)			
	FINDINGS Attach site map showing	g sampling point locati								
, , , ,	getation Present?	Yes x	No		Sampled Are	ea	.,			
Hydric Soil Pres		Yes x	No	withir	n a Wetland?		Yes x	No	—	
Wetland Hydrol	ogy Present?	Yes <u>x</u>	No							
Remarks: WETS analysis det	ermined that the antecedent precipitation conditio	ns were normal. The feature i	s a wet ditch of cattails.							
VEGETATION	Use scientific names of plants.									
Tree Stratum (Plot	eize: 30' radius)		Absolute	Dominant On a size 0	Indicator	Deminent Test				
	size. So facilits)		% Cover	Species?	Status	Dominance Test v	vorksheet:			
1 2.					·	Number of Dominal	t Cassies			
3.				·	·	That Are OBL, FAC		1	(A)	<b>`</b>
3				·	· <u> </u>	That Are OBE, I AC	W, OFFAC.		(A)	'
5.				·		Total Number of Do	minant			
J				= Total Cover		Species Across All		1	(B)	<b>`</b>
							otrata.	·'	(D)	
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	nt Species			
1.						That Are OBL, FAC		100%	(A/I	/B)
2.						,,	,		(	_,
3.				·						
4.				·		Prevalence Index	vorksheet:			
5.										
-				= Total Cover		Total % Co	over of:	Multi	ply by:	
						That Are OBL, FAC			A/E	В
Herb Stratum (Plot	size: 5' radius)					OBL species	85%	x1 =	0.85	
1. Typha X glauca	3	_	85%	Yes	OBL	FACW species	15%	x2 =	0.3	_
2. Phalaris arundi	nacea		15%	No	FACW	FAC species		x3 =		_
3.						FACU species		x4 =		_
4.						UPL species		x5 =		—
5.						Column Totals:	1.00	(A)	1.15	(B)
6.										—
7.						Prevale	nce Index = B/A	4 = 1	.15	
8.										
9.										
10.						Hydrophytic Vege	tation Indicate	ors:		
11.										
12.						X 1-Rapid Te	est for Hydroph	ytic Vegetation		
13.						X 2-Dominar	nce Test is >50	%		
14.							ce Index is ≤3.			
15.						4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provide su	upporting	
16.								separate sheet	-	
17						Problema	ic Hydrophytic	Vegetation <sup>1</sup> (E:	φlain)	
18										
19						<sup>1</sup> Indicators of hydric	soil and wetla	nd hydrology m	ust	
20.						be present, unless	disturbed or pro	oblematic.		
			100%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes	X No		
				= Total Cover						
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.									

Profile Desc Depth	ription: (Describe to th Matrix	e depth neede			firm the ab	sence of in	dicators.)	
(inches)	Color (moist)	%	Color (moist)	lox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks
0-16"			× *	5	C			Remarks
	10YR 2/2	95	10YR 6/6			M	Silt Loam	
16-24"	10YR 5/1	95	10YR 6/6	5	C	M	Silty Clay	
							- <u> </u>	
71	Concentration, D=Depletion	on, RM=Reduce	ed Matrix, CS=Covered o	r Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix.
Hydric Soil I						Test In	dicators of Hydric S	
Histoso			Sandy Gleye					nese Masses (F12)
	pipedon (A2)		Sandy Redox					v Dark Surface (F22)
	Histic (A3)		Stripped Mati				Other (Expla	ain in Remarks)
	en Sulfide (A4)		Dark Surface					
	ed Layers (A5)		Loamy Mucky		)			
	luck (A10) ed Below Dark Surface (/	A 1 1 )	Loamy Gleye					
·	oark Surface (A12)	411)	X Redox Dark S				<sup>3</sup> The hydric soil inc	licators have been updated to
	Mucky Mineral (S1)		Depleted Dark		7)		•	Field Indicators of Hydric Soils
	lucky Peat or Peat (S3)		X Redox Depre	-	,			tates, Version 8.0, 2016.
	_ayer (if observed):							
Type:	ayer (il observed).							
Depth (i	inchos):					Hydric S	oil Present?	Yes X No
HYDROL								
-	drology Indicators:							
	cators (minimum of one is e Water (A1)	s required: cheo	k all that apply) Water-Staine	d Loovoo (PC	))			ors (minimum of two required) Cracks (B6)
				`	")			
	/ater Table (A2) tion (A3)		Aquatic Faun True Aquatic					atterns (B10) Water Table (C2)
	Marks (B1)		Hydrogen Su	. ,	1)		Crayfish Bu	
	ent Deposits (B2)		Oxidized Rhiz	-		s (C3)		isible on Aerial Imagery (C9)
	eposits (B3)		Presence of I	•	0	- ()		Stressed Plants (D1)
Algal M	lat or Crust (B4)		Recent Iron F	Reduction in T	illed Soils (0	C6)	X Geomorphic	Position (D2)
	posits (B5)		Thin Muck Su	Irface (C7)			X FAC-Neutra	I Test (D5)
Inundat	tion Visible on Aerial Imag	gery (B7)	Gauge or We	ell Data (D9)				
Sparse	ly Vegetated Concave S	urface (B8)	Other (Explai	n in Remarks	)			
Field Observ	vations:							
Surface Wat	er Present?	Yes No	X Depth (inches)	): N/A				
Water Table	Present?	Yes No						
Saturation P	resent?	Yes X No	Depth (inches)	: 16"	Wetlar	nd Hydrolog	y Present?	Yes X No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream ga	uge, monitoring	well, aerial photos, previ	ious inspectio	ns), if availa	able:		
Remarks: The feature at	ppears to hold surface d	uring a portion of	of the growing soccor					
The leature a	ppears to noid surface d	uning a portion t	n the growing season.					

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Count	y	Si	ampling Date	e: 7/18/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation				: WI	Sampling Point		. c DP-6		
Investigator(s):	K. Carlson, E. Englund					p, Range: TWP 2N,		2		
Landform (hillslope,						al relief (concave, cor				
Slope (%):	10% Lat:	42.666155		Long:		7.870434		Datum: NA	D83 UTM1	6N
	e: MzdB2 - Ozaukee silt loam, 2 to 6 percent slopes,				-		NWI classifica			-
	logic conditions on the site typical for this time of year			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology N	significantly distu			I Circumstances" pre		Yes )	K_No	
Are Vegetation	N , Soil N	, or Hydrology N	naturally problem			explain any answers			<u> </u>	
-	FINDINGS Attach site map showing s					ospidin dity ditorioro	in reemander,			
	· · ·					-				
Hydric Soil Pres	getation Present?	Yes Yes	No <u>x</u> No x		e Sampled Are n a Wetland?	a	Yes	No	~	
Wetland Hydrold		Yes	No x	within			163		~	
			<u></u>							
Remarks: WETS analysis dete	ermined that the antecedent precipitation conditions	were normal. The point is on the	e backside of a road r	ight of way.						
2										
VEGETATION -	Use scientific names of plants.									
	· · ·		Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	worksheet:			
1.										
2.						Number of Domina	nt Species			
3.						That Are OBL, FAC	W, or FAC:	1	<u> </u>	(A)
4.										
5.					·	Total Number of Do	ominant			
				= Total Cover		Species Across All	Strata:	3	3 (	(B)
Sapling/Shrub Strate	tum (Plot size: 15' radius)					Percent of Dominar				
1					· <u> </u>	That Are OBL, FAC	W, or FAC:	33	%	(A/B)
2										
3					· <u> </u>					
4					· <u> </u>	Prevalence Index	worksheet:			
5.										
				= Total Cover		Total % C		M	ultiply by:	A /D
Horb Stratum (Plot	eize: E' rediue)					That Are OBL, FAC	W, of FAC:		,	4/B
Herb Stratum (Plot			25%	Vaa	FAC	OBL species	100/	x1 =	0.2	
Poa pratensis     Cirsium arvense			25%	Yes	FAC	FACW species FAC species	10% 25%	x2 = x3 =	0.2	
3. Heliopsis helian			15%	Yes	FACU	FACU species	50%		2	
4. Phalaris arundir			10%	No	FACW	UPL species	10%		0.5	
5. Daucus carota			10%	No	UPL	Column Totals:	0.95	(A)	3.45	(B)
6. Sonchus arvens	sis		10%	No	FACU					(=)
7. Solidago canad			5%	No	FACU	Prevale	nce Index = B/A	=	3.63	
8. Asclepias syriad			5%	No	FACU					
9.					·					
10.					·	Hydrophytic Vege	tation Indicato	rs:		
11.					·					
12.					·	1-Rapid T	est for Hydrophy	tic Vegetati	on	
13.					·		nce Test is >50%			
14.						3-Prevaler	ice Index is ≤3.0	) <sup>1</sup>		
15.					·	4-Morphol	ogical Adaptatio	ns <sup>1</sup> (Provide	supporting	I
16.						data in Re	emarks or on a s	separate shr	eet)	
17.					·	Problema	tic Hydrophytic	√egetation <sup>1</sup>	(Explain)	
18.										
19.						<sup>1</sup> Indicators of hydrid	soil and wetlar	id hydrology	must	
20.						be present, unless	disturbed or pro	blematic.		
			95%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic				
1.						Vegetation				
2.						Present?	Yes	No X	<u>&lt;</u>	
				= Total Cover						
Remarks: (Include The vegetation is sin	photo numbers here or on a separate sheet.) milar throughout.									

Profile Desci	iption: (Describe to the tothe	ne depth needed to	o document the indi	cator or con	firm the abs	sence of ind	dicators.)			
Depth	Matrix		Red	lox Features		_				
(inches)	Color (moist)	%	Color (moist)	%	Туре <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-20"	10YR 3/3	100					Loam			
20-24"	10YR 4/4	100					Silty Clay Loam			
<sup>1</sup> Type: C=C	oncentration, D=Depleti	on, RM=Reduced N	latrix, CS=Covered o	r Coated San	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix.		
Hydric Soil Ir	ndicators <sup>3</sup> :					Test Inc	dicators of Hydric S	Soils:		
Histoso	(A1)		Sandy Gleyed	d Matrix (S4)			Iron-Mangai	nese Masses (F12)		
Histic E	pipedon (A2)		Sandy Redox	: (S5)			Very Shallov	w Dark Surface (F22)		
	istic (A3)		Stripped Matr	. ,			Other (Expla	ain in Remarks)		
	en Sulfide (A4)		Dark Surface							
	d Layers (A5)		Loamy Mucky							
	uck (A10) d Below Dark Surface (	A11)	Loamy Gleye	. ,						
	ark Surface (A12)	ATT)	Redox Dark S				<sup>3</sup> The hydric soil inc	licators have been updated to		
	Ank Sunace (A12) Aucky Mineral (S1)		Depleted Dark		7)		-	Field Indicators of Hydric Soils		
	ucky Peat or Peat (S3)		Redox Depres		,			States, Version 8.0, 2016.		
	ayer (if observed):		·	. ,						
Type:	ayer (il observed).									
Depth (ir	iches).					Hydric Se	oil Present?	Yes No X		
Remarks:	/					,				
HYDROL										
-	rology Indicators:									
	ators (minimum of one i Water (A1)	s required: check al	Water-Staine	d Leaves (BQ	)			ors (minimum of two required) I Cracks (B6)		
	ater Table (A2)		Aquatic Fauna	,	)			atterns (B10)		
Saturati			True Aquatic	. ,				Water Table (C2)		
	/arks (B1)		Hydrogen Sul		1)		Crayfish Bu	· · · ·		
	nt Deposits (B2)		Oxidized Rhiz	•	,	(C3)		/isible on Aerial Imagery (C9)		
Drift De	posits (B3)		Presence of F	Reduced Iron	(C4)		Stunted or S	Stressed Plants (D1)		
Algal Ma	at or Crust (B4)		Recent Iron R	Reduction in T	illed Soils (C	6)	Geomorphic	c Position (D2)		
Iron Dep	oosits (B5)		Thin Muck Su	rface (C7)			FAC-Neutra	l Test (D5)		
	on Visible on Aerial Ima		Gauge or We							
Sparsel	y Vegetated Concave S	Surface (B8)	Other (Explain	n in Remarks	)					
Field Observ	ations:									
Surface Wate	er Present?	Yes <u>No X</u>	Depth (inches)	: N/A						
Water Table		Yes No X	Depth (inches)							
Saturation Pr		Yes No X	Depth (inches)	: N/A	Wetland	d Hydrolog	y Present?	Yes NoX		
(includes cap			Leariel photos, provi		na) if availab					
Describe Red	corded Data (stream ga	uge, monitoring wei	i, aeriai photos, previ	ous inspectio	ns), ir avaliar	DIE:				
Remarks:										
No wetland hy	drology was observed.									
I										

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	/: Kenosha Coun	ity	s	Sampling Date	.e: 7/18/201	18
Applicant/Owner:	Wisconisn Dept. of Transportation				e: WI	Sampling Point:		DP-0		
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 2N, F				
Landform (hillslope,						cal relief (concave, con				
Slope (%):	0% Lat:	42.662362		Long:	-	87.873683	· · · · · · · · · · · · · · · · · · ·		AD83 UTM1	6N
	e: MeB2 - Markham silt loam, 2 to 6 percent slopes			_			NWI classifica			
	logic conditions on the site typical for this time of y			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology	N significantly d			al Circumstances" pre	-	Yes >	K_No	
Are Vegetation	N , Soil N	, or Hydrology	N naturally prob			, explain any answers				
	FINDINGS Attach site map showing					,	,			
					e Sampled Ar	~~~				
Hydric Soil Pres	getation Present?	Yes <u>x</u> Yes x	No No		n a Wetland?		Yes x	No		
Wetland Hydrol		Yes X	No				103 1			
-		100 <u></u>								
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	ns were normal. The featu	ure is a wet roadside ditch.							
VEGETATION	Use scientific names of plants.		Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	vorksheet:			
1.										
2.					·	Number of Dominar	nt Species			
3.					·	That Are OBL, FAC		3	3 (	(A)
4.					·					
5.					·	Total Number of Do	minant			
				= Total Cover	·	Species Across All	Strata:	3	3 (	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	t Species			
1. Salix interior			5%	Yes	FACW	That Are OBL, FAC	W, or FAC:	100	)% (	(A/B)
2.										
3.										
4.						Prevalence Index v	vorksheet:			
5.										
			5%	= Total Cover		Total % Co		M	ultiply by:	
						That Are OBL, FAC	N, or FAC:		/	A/B
Herb Stratum (Plot	size: 5' radius)	_				OBL species	45%	x1 =	0.45	
1. Phalaris arundi	nacea		30%	Yes	FACW	FACW species	45%	x2 =	0.9	
2. Scirpus atrovire			20%	Yes	OBL	FAC species	5%	x3 =	0.15	
3. Carex lacustris			15%	No	OBL	FACU species		x4 =		
4. Solidago gigant			10%	No	FACW	UPL species		x5 =		
5. Eleocharis palu	istris		10%	No	OBL	Column Totals:	0.95	(A)	1.5	(B)
6. Poa pratensis			5%	No	FAC					
7					·	Prevaler	nce Index = B/A	· =	1.58	
8					·					
9.					·					
10					·	Hydrophytic Vege	tation Indicate	ors:		
11					·					
12					·		est for Hydroph		อท	
13.					·		ice Test is >50 <sup>o</sup> ice Index is ≤3.0			
14					·		ogical Adaptatio		oupporting	_
15					·					1
16.					·		emarks or on a ic Hydrophytic			
17					·		с пушорпуш	vegetation	(Explain)	
18			·		·	1 ndiantara of hudrig		ad budralage		
19					·	<sup>1</sup> Indicators of hydric			musi	
20.				Tatal Gauss		be present, unless	disturbed or pro	oblematic.		
			90%	= Total Cover						
Mara da Mara Otaria										
	m (Plot size: 30' radius)					Hydrophytic				
1			·			Vegetation	¥	× N-		
2				= Total Cover	·	Present?	res	× No	_	
Demonstrative (In all of a										
The vegetation is si	photo numbers here or on a separate sheet.) milar throughout.									

Profile Desc	ription: (Describe to th	e depth needed	I to document the ind	icator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix		Red	dox Features			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2"	10YR 2/1	100					Mucky Loam	
2-22"	10YR 2/1	98	10YR 5/6	2	С	М	Clay	
22-28"	10YR 6/1	100					Sand	
				·		·		
				·				
<sup>1</sup> Type: C=C	oncentration, D=Depletic	n RM-Reduced	Matrix CS-Covered o	or Coated Sar	d Grains		PL=Pore Lining, M=N	Matrix
Hydric Soil I							dicators of Hydric S	
Histoso			Sandy Gleye	d Matrix (S4)			-	nese Masses (F12)
	pipedon (A2)		Sandy Redox					v Dark Surface (F22)
Black H	listic (A3)		Stripped Mat	rix (S6)			Other (Expla	in in Remarks)
Hydrog	en Sulfide (A4)		Dark Surface	e (S7)				
Stratifie	d Layers (A5)		Loamy Muck	y Mineral (F1)	1			
2 cm M	uck (A10)		Loamy Gleye	ed Matrix (F2)				
Deplete	d Below Dark Surface (A	A11)	Depleted Ma					
	ark Surface (A12)		Redox Dark	. ,				licators have been updated to
	Mucky Mineral (S1)			rk Surface (F7	7)			Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	tates, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре:								
Depth (i	nches):					Hydric S	oil Present?	Yes <u>X</u> No
HYDROL	oex							
-	Irology Indicators:							
	ators (minimum of one is Water (A1)	s required: check		d Leaves (B9	)			ors (minimum of two required) Cracks (B6)
	ater Table (A2)		Aquatic Faun	`	')		Drainage Pa	
X Saturat			True Aquatic					Water Table (C2)
	Marks (B1)		Hydrogen Su		1)		Crayfish Bur	
	nt Deposits (B2)			zospheres on		s (C3)		isible on Aerial Imagery (C9)
	posits (B3)			Reduced Iron	0			stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Iron F	Reduction in T	illed Soils (0	C6)	X Geomorphic	Position (D2)
Iron De	posits (B5)		X Thin Muck Su	urface (C7)			X FAC-Neutra	I Test (D5)
Inundat	ion Visible on Aerial Imag	gery (B7)	Gauge or We	ell Data (D9)				
Sparse	y Vegetated Concave S	urface (B8)	Other (Explai	n in Remarks	)			
Field Observ	ations:							
Surface Wate	er Present?	Yes No	X Depth (inches	): N/A				
Water Table	Present?	Yes No	X Depth (inches	): N/A				
Saturation Pr	esent?	Yes X No	Depth (inches	): Surface	Wetlar	nd Hydrolog	gy Present?	Yes <u>X</u> No
(includes cap								
Describe Re	corded Data (stream ga	uge, monitoring v	vell, aerial photos, prev	ious inspectio	ns), if availa	ble:		
Remarks:								
	ay hold surface during a	portion of the gr	owing season.					

Project/Site:	CTH KR, CTH H to Old Green Bay Road				Citv/County	Racine County		s	ampling Da	te: 7/18/20	)18
Applicant/Owner:	Wisconisn Dept. of Transportation				State		Sampling Point		DP		-
Investigator(s):	K. Carlson, E. Englund						o, Range: TWP 2N,			0.	
Landform (hillslope,							al relief (concave, cor				
		40,000040			1			ivex, none). col			401
Slope (%):	5% Lat:	42.662348			Long:	-0	7.872596		-	AD83 UTM	ION
-	e: MeB2 - Markham silt loam, 2 to 6 percent slope							NWI classifica	ition: <u>IN</u>	one	
	logic conditions on the site typical for this time of y				-		(If no, explain i				
Are Vegetation	N , Soil N	, or Hydrology		nificantly dist			I Circumstances" pre		Yes	X_No	
Are Vegetation	N , Soil N	, or Hydrology		turally proble			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showing	sampling point locat	ions, trans	sects, imp	ortant feature	es, etc.					
Hydrophytic Veg	getation Present?	Yes	No	х	Is the	Sampled Are	a				
Hydric Soil Pres	sent?	Yes	No	Х	within	a Wetland?		Yes	No	х	
Wetland Hydrold	ogy Present?	Yes	No	Х	-						
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	ns were normal. The point is	near a roadsi	ide shoulder.							
<b>VEGETATION</b> -	Use scientific names of plants.										
				Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		_	% Cover	Species?	Status	Dominance Test	vorksheet:			
1. Juglans nigra				10%	Yes	FACU					
2.							Number of Domina	nt Species			
3.							That Are OBL, FAC	W, or FAC:		1	(A)
4.											
5.							Total Number of Do	ominant			
				10%	= Total Cover		Species Across All	Strata:		3	(B)
											-
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Dominar	nt Species			
1.							That Are OBL, FAC	W, or FAC:	3:	3%	(A/B)
2.											-
3.											
4.							Prevalence Index	worksheet:			
5.											
0.					= Total Cover		Total % C	over of	M	lultiply by:	
					-		That Are OBL, FAC			iunipiy by.	A/B
Herb Stratum (Plot	size: 5' radius)						OBL species		x1 =		
1. Poa pratensis		_		50%	Yes	FAC	FACW species	5%	x2 =	0.1	
2. Hypericum perfe	foratum			20%	Yes	FACU	FAC species	50%	x3 =	1.5	
3. Cirsium arvense				10%	No	FACU	FACU species	45%		1.8	
4. Phalaris arundir				5%	No	FACW	UPL species	2%		0.1	
5. Achillea millefol				5%	No	FACU	Column Totals:	1.02	(A)	3.5	(B)
6. Daucus carota				2%	No	UPL	Column Totals.	1.02		0.0	(8)
<ol> <li>Daucus carola</li> <li>7.</li> </ol>				2 /0	NU	UFL	Dravala	and Index D/A		2.42	
							Prevale	nce Index = B/A	.=	3.43	
8											
9											
10							Hydrophytic Vege	tation Indicate	vrs:		
11											
12.							1-Rapid T	est for Hydroph	tic Vegetat	ion	
13.								nce Test is >50			
14								ice Index is ≤3.			
15.							4-Morphol	ogical Adaptatio	ons1 (Provide	e supportin	g
16.							data in Re	emarks or on a	separate sh	neet)	
17.							Problema	tic Hydrophytic	Vegetation <sup>1</sup>	(Explain)	
18.											
19.							<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrolog <sup>.</sup>	y must	
20.							be present, unless	disturbed or pro	blematic.		
				92%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.					·		Present?	Yes	No	x	
£					= Total Cover		i resent?	105		~	
			-								
Remarks: (Include) The vegetation is si	photo numbers here or on a separate sheet.)						ļ				

	• •	-				sence of ir	•	
Depth	Matrix			edox Features	1		_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2"	10YR 4/3	100					Silt Loam	
2-18"	10YR 5/4	100					Clay	Gravel Inclusions
18-24"	10YR 5/1	65	7.5YR 5/4	33	С	М	Clay	
·		· ·	5YR 4/6	2	С	М		
·		·				·		
•		·						
		·						
	oncentration, D=Depletio	n RM-Reduc	red Matrix CS-Covered	or Coated Sar	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix
Hydric Soil In		n, nim=neduc		or obtailed our			dicators of Hydric	
Histosol			Sandy Gleve	ed Matrix (S4)			-	anese Masses (F12)
	pipedon (A2)		Sandy Redo					w Dark Surface (F22)
	istic (A3)		Stripped Ma					lain in Remarks)
	en Sulfide (A4)		Dark Surfac				、 .	
	d Layers (A5)		Loamy Muc	ky Mineral (F1)				
	uck (A10)			ed Matrix (F2)				
	d Below Dark Surface (A	.11)	Depleted Ma					
	ark Surface (A12)	,		Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been updated to
	Aucky Mineral (S1)			ark Surface (Fi	7)		•	e Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)			essions (F8)	,			States, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Type:								
Depth (ir	nches).		-			Hydric S	Soil Present?	Yes No X
	,							
HYDROLO								
	OGY							
	OGY rology Indicators:							
Wetland Hyd Primary Indica	rology Indicators: ators (minimum of one is	required: che						tors (minimum of two required)
Wetland Hyd Primary Indica	rology Indicators:	required: che		ed Leaves (BS	))			tors (minimum of two required) il Cracks (B6)
Wetland Hyd Primary Indica Surface High Wa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2)	required: che		,	)		Surface So	
Wetland Hyd Primary Indica Surface	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2)	required: che	Water-Stain Aquatic Fau	,	)		Surface So Drainage P	il Cracks (B6)
Wetland Hyd Primary Indica Surface High Wa Saturatio	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2)	required: che	Water-Stain Aquatic Fau True Aquatid	na (B13)			Surface So Drainage P	il Cracks (B6) latterns (B10) n Water Table (C2)
Wetland Hyd         Primary Indica         Surface         High Wa         Saturation         Water M         Sediment	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>J</i> arks (B1) nt Deposits (B2)	required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C izospheres on	1) Living Roots	s (C3)	Surface So Drainage P Dry-Seaso Crayfish Bu Saturation	il Cracks (B6) latterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Wetland Hyd           Primary Indica           Surface           High Wa           Saturation           Water M           Sediment	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>M</i> arks (B1)	required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C	1) Living Roots	s (C3)	Surface So Drainage P Dry-Seaso Crayfish Bu Saturation	ill Cracks (B6) latterns (B10) n Water Table (C2) urrows (C8)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>J</i> arks (B1) nt Deposits (B2)	required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of	na (B13) c Plants (B14) ulfide Odor (C izospheres on	1) Living Roots (C4)	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or	il Cracks (B6) latterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Wetland Hyd         Primary Indica         Surface         High Wa         Saturation         Water M         Sediment         Drift Dep         Algal Mate	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	required: che	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron	na (B13) c Plants (B14) ulfide Odor (C iizospheres on f Reduced Iron	1) Living Roots (C4)	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B14) ulfide Odor (C iizospheres on f Reduced Iron Reduction in T	1) Living Roots (C4)	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) In Water Table (C2) Prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	ery (B7)	Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C iizospheres on f Reduced Iron Reduction in T Surface (C7)	1) Living Root: (C4) illed Soils (C	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) In Water Table (C2) Prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>M</i> arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su	ery (B7)	Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C iizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9)	1) Living Root: (C4) illed Soils (C	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) In Water Table (C2) Prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimer Drift Deg Algal Ma Iron Deg Inundatie Sparsely	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations:	ery (B7) rface (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C iizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks	1) Living Root: (C4) illed Soils (C	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) In Water Table (C2) Prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie Sparsely	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present?	ery (B7) ırface (B8) Yes No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C iizospheres on f Reduced Iron Reduction in T Gurface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u>	1) Living Root: (C4) illed Soils (C	. ,	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) In Water Table (C2) Prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimee Drift Dep Algal Ma Iron Dep Inundatie Sparsely Field Observa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present?	ery (B7) Irface (B8) Yes No Yes No	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C	26)	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph	il Cracks (B6) Patterns (B10) In Water Table (C2) Prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) In Position (D2)
Wetland Hyd Primary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie Sparsely Field Observa Surface Water	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: present? Present?	ery (B7) Irface (B8) Yes No Yes No	X       Water-Stain         Aquatic Fau       True Aquatic         True Aquatic       Hydrogen S         Oxidized Rh       Presence of         Recent Iron       Thin Muck S         Gauge or W       Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C	26)	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatii Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatii Sparsely Field Observa Surface Water Water Table I Saturation Pro (includes capi	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: present? Present?	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatii Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatii Sparsely Field Observa Surface Water Water Table I Saturation Pro (includes capit	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present?	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatii Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatii Sparsely Field Observa Surface Water Water Table I Saturation Pro (includes capit	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present?	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatiu Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatiu Sparsely Field Observa Surface Water Water Table I Saturation Pre (includes capi Describe Rec	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe) corded Data (stream gau	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatiu Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatiu Sparsely Field Observa Surface Water Water Table I Saturation Pre (includes capi Describe Rec	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present?	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatiu Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatiu Sparsely Field Observa Surface Water Water Table I Saturation Pre (includes capi Describe Rec	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe) corded Data (stream gau	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface High Wa Saturatiu Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatiu Sparsely Field Observa Surface Water Water Table I Saturation Pre (includes capi Describe Rec	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe) corded Data (stream gau	ery (B7) Irface (B8) Yes No Yes No Yes No	X       Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or Geomorph FAC-Neutra	ill Cracks (B6) Patterns (B10) In Water Table (C2) Urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) fic Position (D2) al Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		S	ampling Da	ite: 7/18/201	18
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point:			-65	
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 3N, F				
Landform (hillslope,						al relief (concave, con				
Slope (%):	1% Lat:	42.669609		Long:		87.885324	· · · · · · · · · · ·		AD83 UTM1	6N
	e: AtA - Ashkum silty clay loam, 0 to 2 percent slop			<u> </u>			NWI classifica		3/E1K	
	logic conditions on the site typical for this time of y			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology	N significantly dist			al Circumstances" pre		Yes	X_No	
Are Vegetation	N , Soil N	, or Hydrology	N naturally probler			explain any answers				—
	FINDINGS Attach site map showing		//			, orpiani any anonoro	in recinance.)			
	qetation Present?					~~				
Hydric Soil Pres	0	Yes <u>x</u> Yes x	No No		Sampled Are a Wetland?	ea	Yes x	No		
Wetland Hydrol		Yes X	No	within				_ 110		
Remarks:		<u></u>								
	termined that the antecedent precipitation condition	ns were normal. The featu	e is a shallow marsh of catta	ils with a wet me	adow fringe.					
VEGETATION	Use scientific names of plants.									
F 0			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test v	vorksheet:			
1										
2						Number of Dominar				
3.						That Are OBL, FAC	W, or FAC:		3 (	(A)
4						T ( ) ) ( )				
5				= Total Cover		Total Number of Do				(D)
				= Total Cover		Species Across All	Strata:		3 (	(B)
Sopling/Shrub Strot	tum (Plot size: 15' radius)					Dereent of Dominor	t Cassies			
						Percent of Dominar		10	)0% (	(A/D)
1 2.						That Are OBL, FAC	W, OF FAC.	10	0% (	(A/B)
3.										
4.						Prevalence Index v	vorksheet.			
						T Tevalence Index v	vorkäheet.			
5.				= Total Cover		Total % Co	wer of:	M	fultiply by:	
						That Are OBL, FAC				A/B
Herb Stratum (Plot	size: 5' radius)					OBL species	55%	x1 =	0.55	
1. Solidago gigan		_	25%	Yes	FACW	FACW species	27%	x2 =	0.54	
2. Carex stricta			20%	Yes	OBL	FAC species	2%	x3 =	0.06	
3. Typha x glauca	1		20%	Yes	OBL	FACU species		x4 =		
4. Asclepias incar	rnata		15%	No	OBL	UPL species		x5 =		
5. Rhamnus catha	artica		2%	No	FAC	Column Totals:	0.84	(A)	1.15	(B)
6. Salix interior			2%	No	FACW					
7.						Prevaler	nce Index = B/A	۱ =	1.37	
8.										
9.										
10.						Hydrophytic Vege	tation Indicato	ors:		
11.										
12.						X 1-Rapid Te	est for Hydrophy	ytic Vegetat	ion	
13.						X 2-Dominar	ice Test is >509	%		
14.						X 3-Prevalen	ce Index is ≤3.0	J1		
15.						4-Morphole	ogical Adaptatio	ons <sup>1</sup> (Provide	e supporting	ł
16.						data in Re	marks or on a	separate sh	ieet)	
17.						Problemat	ic Hydrophytic	Vegetation <sup>1</sup>	(Explain)	
18										
19						<sup>1</sup> Indicators of hydric	soil and wetlar	nd hydrolog	y must	
20.						be present, unless	disturbed or pro	blematic.		
			84%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes >	<u> </u>		
				= Total Cover						
	photo numbers here or on a separate sheet.) d is dominated by cattails.									

Depth	Matrix	Ro	dox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	_ Texture	Remarks
0-8"	10YR 2/1	95	10YR 6/6	5	<u> </u>	 M	Silt Loam	Komano
				·				
8-20"	10YR 6/1	95	10YR 5/6	5	C	М	Clay	
		·						
•								
<sup>1</sup> Type: C=Co	oncentration, D=Depletio	n, RM=Reduc	ced Matrix, CS=Covered o	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil In	ndicators <sup>3</sup> :					Test Ir	ndicators of Hydric	Soils:
Histosol	(A1)		Sandy Gleye	d Matrix (S4)				inese Masses (F12)
Histic Ep	pipedon (A2)		Sandy Redox					w Dark Surface (F22)
	istic (A3)		Stripped Mat				Other (Expl	ain in Remarks)
	en Sulfide (A4)		Dark Surface	. ,				
	d Layers (A5)			y Mineral (F1)				
	uck (A10)		Loamy Gleye					
	d Below Dark Surface (A	.11)	X Depleted Ma				3	
	ark Surface (A12)		X Redox Dark	. ,	7)		-	dicators have been updated to
	/lucky Mineral (S1) ucky Peat or Peat (S3)		X Redox Depre	rk Surface (F7	()			e Field Indicators of Hydric Soils States, Version 8.0, 2016.
				5510115 (FO)				States, version 6.0, 2010.
Restrictive La	ayer (if observed):							
Type:								
Depth (in	nches):					Hydric S	Soil Present?	Yes <u>X</u> No
HYDROLO								
Wetland Hyd	rology Indicators:							
Wetland Hyd	rology Indicators: ators (minimum of one is	required: che		d Leaves (BQ				tors (minimum of two required)
Wetland Hyd Primary Indica Surface	rology Indicators: ators (minimum of one is Water (A1)	required: che	Water-Staine	ed Leaves (B9	)		Surface So	il Cracks (B6)
Wetland Hyd Primary Indica Surface X High Wa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2)	required: che	Water-Staine Aquatic Faun	ia (B13)	))		Surface So Drainage P	il Cracks (B6) ratterns (B10)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3)	required: che	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)			Surface So Drainage P Dry-Seaso	il Cracks (B6) atterns (B10) n Water Table (C2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatic Water M	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>I</i> larks (B1)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14) Ilfide Odor (C1	1)	(C3)	Surface So Drainage P Dry-Season Crayfish Bu	il Cracks (B6) atterns (B10) n Water Table (C2) ırrows (C8)
Wetland Hydi Primary Indica Surface X High Wa X Saturatio Water M Sedimer	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>M</i> arks (B1) nt Deposits (B2)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) Ilfide Odor (C <sup>2</sup> zospheres on	1) Living Roots	s (C3)	Surface So Drainage P Dry-Season Crayfish Bu Saturation	il Cracks (B6) atterns (B10) n Water Table (C2) ırrows (C8) Visible on Aerial Imagery (C9)
Wetland Hydr Primary Indica Surface X High Wa X Saturatic Water M Sedimer Drift Dep	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of	a (B13) Plants (B14) Ilfide Odor (C1	) Living Roots (C4)		Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>M</i> arks (B1) nt Deposits (B2)	required: che	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of	a (B13) Plants (B14) Ilfide Odor (C <sup>7</sup> zospheres on Reduced Iron Reduction in T	) Living Roots (C4)		Surface So Drainage P Dry-Season Crayfish Bu Saturation	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14) Ilfide Odor (C <sup>4</sup> zospheres on Reduced Iron Reduction in T urface (C7)	) Living Roots (C4)		Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Wetland Hydr Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	ery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ilfide Odor (C <sup>4</sup> zospheres on Reduced Iron Reduction in T urface (C7)	1) Living Roots (C4) illed Soils (C		Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>l</i> arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su	ery (B7)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	1) Living Roots (C4) illed Soils (C		Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations:	ery (B7) Irface (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	1) Living Roots (C4) illed Soils (C		Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Iron Dep Inundatio Sparsely Field Observa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present?	ery (B7) Irface (B8) Yes No	Water-Staine         Aquatic Faun         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inchest	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u>	1) Living Roots (C4) illed Soils (C		Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Table F	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present?	ery (B7) Irface (B8) Yes No Yes No	Water-Staine         Aquatic Faun         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inches)         Depth (inches)	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u>	) Living Roots (C4) iilled Soils (C	26)	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Table F Saturation Pre	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present?	ery (B7) Irface (B8) Yes No	Water-Staine         Aquatic Faun         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inches)         Depth (inches)	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u>	) Living Roots (C4) iilled Soils (C	26)	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	ery (B7) Irface (B8) Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No	X Depth (inches Depth (inches State)	a (B13) Plants (B14) Ilfide Odor (C- zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u> ): <u>Surface</u>	1) Living Roots (C4) iilled Soils (C ) Wetlan	d Hydrolo	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	ery (B7) Irface (B8) Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No	Water-Staine         Aquatic Faun         True Aquatic         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inches)         Depth (inches)	a (B13) Plants (B14) Ilfide Odor (C- zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u> ): <u>Surface</u>	1) Living Roots (C4) iilled Soils (C ) Wetlan	d Hydrolo	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	ery (B7) Irface (B8) Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No	X Depth (inches Depth (inches State)	a (B13) Plants (B14) Ilfide Odor (C- zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u> ): <u>Surface</u>	1) Living Roots (C4) iilled Soils (C ) Wetlan	d Hydrolo	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	ery (B7) Irface (B8) Yes <u>X</u> No Yes <u>X</u> No Yes <u>X</u> No	X Depth (inches Depth (inches State)	a (B13) Plants (B14) Ilfide Odor (C- zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u> ): <u>Surface</u>	1) Living Roots (C4) iilled Soils (C ) Wetlan	d Hydrolo	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	ery (B7) Irface (B8) Yes X No Yes X No Yes X No	Water-Staine         Aquatic Faun         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inchess         Depth (inchess         Depth (inchess         g well, aerial photos, prev	a (B13) Plants (B14) Ilfide Odor (C- zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u> ): <u>Surface</u>	1) Living Roots (C4) iilled Soils (C ) Wetlan	d Hydrolo	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
Wetland Hyd Primary Indica Surface X High Wa X Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe) corded Data (stream gau	ery (B7) Irface (B8) Yes X No Yes X No Yes X No	Water-Staine         Aquatic Faun         True Aquatic         Hydrogen Su         Oxidized Rhiz         Presence of         Recent Iron F         Thin Muck Su         Gauge or We         Other (Explain         X       Depth (inchess         Depth (inchess         Depth (inchess         g well, aerial photos, prev	a (B13) Plants (B14) Ilfide Odor (C- zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>12"</u> ): <u>Surface</u>	1) Living Roots (C4) iilled Soils (C ) Wetlan	d Hydrolo	Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road				Citv/County	: Racine County		S	Sampling D	ate: 7/18/20	)18
Applicant/Owner:	Wisconisn Dept. of Transportation					: WI	Sampling Point			P-66	
Investigator(s):	K. Carlson, E. Englund						ip, Range: TWP 3N,	-			
Landform (hillslope,							al relief (concave, co				
Slope (%):	4% Lat:	42.669578			Long:		-87.8852			NAD83 UTM	16N
	e: AtA - Ashkum silty clay loam, 0 to 2 percent slo						0110002	NWI classific		S3/E1K	
-	plogic conditions on the site typical for this time of				Vec	X No	(If no, explain	-	<u>-</u>	10/E IIX	
			N ai	anificantly diat					Vaa	V No	
Are Vegetation	<u> </u>	, or Hydrology		gnificantly dist			al Circumstances" pre		165	X_No	—
Are Vegetation		, or Hydrology		aturally probler			explain any answers	III Remarks.)			
	FINDINGS Attach site map showin										
	getation Present?	Yes	No	X		Sampled Are	ea	Vee	Na		
Hydric Soil Pres Wetland Hydrold		Yes Yes	No No	X X	withi	n a Wetland?		Yes	_ 100_	Х	
-	Jyy Fresent?	165	NU.	^							
Remarks: WETS analysis dete	termined that the antecedent precipitation condition	ons were normal. The point	t is in a fallow a	rea between a	railroad and a sł	hallow marsh.					
VEGETATION -	Use scientific names of plants.										
Tree Stratum (Plot	size: 30' radius)			Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	workshoot			
1.			-	76 COVEI	Species :	Status	Dominance rest	worksneet.			
2.						·	Number of Domina	nt Species			
3.						· <u> </u>	That Are OBL, FAG			0	(A)
4.						· <u> </u>	11101/110 002,177				
5.						·	Total Number of D	ominant			
					= Total Cover	·	Species Across Al			3	(B)
											-
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Domina	nt Species			
1.							That Are OBL, FAG			0%	(A/B)
2.						·					•
3.											
4.							Prevalence Index	worksheet:			
5.						·					
					= Total Cover		Total % C	over of:	,	Multiply by:	
							That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot	size: 5' radius)						OBL species		x1 =		
1. Solidago canad	lensis			25%	Yes	FACU	FACW species	15%	x2 =	0.3	
2. Melilotus officin	nalis			20%	Yes	FACU	FAC species	2%	x3 =	0.06	
3. Monarda fistulo	ISA			15%	Yes	FACU	FACU species	70%	x4 =	2.8	
4. Helianthus hirsu	utus			10%	No	UPL	UPL species	10%	x5 =	0.5	
5. Phalaris arundir	nacea			10%	No	FACW	Column Totals:	0.97	(A)	3.66	(B)
6. Cirsium arvense	e			10%	No	FACU					
7. Euthamia grami	inifolia			5%	No	FACW	Prevale	nce Index = B//	<i>\</i> =	3.77	
8. Rhamnus catha	artica			2%	No	FAC					
9						·					
10						·	Hydrophytic Veg	etation Indicat	ors:		
11											
12.							1-Rapid T	est for Hydroph	ytic Vegeta	ition	
13.								nce Test is >50			
14.								nce Index is ≤3.			
15								logical Adaptati			g
16								emarks or on a		,	
17							Problema	tic Hydrophytic	vegetation	(Explain)	
18							1				
19							<sup>1</sup> Indicators of hydri			jy must	
20			· ·			·	be present, unless	disturbed or pr	oblematic.		
				97%	= Total Cover						
	m (Plot size: 30' radius)						Hydrophytic				
1			·				Vegetation			×	
2			·		Tatal C		Present?	Yes	No	*	
			-		= Total Cover						
The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.										

Profile Descr	iption: (Describe to th	e depth need	ed to document the ind	licator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix			dox Features			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16"	10YR 3/2	100					Loam	
16-22"	10YR 3/2	100					Clay	
22-28"	10YR 4/1	95	10YR 5/4	5	С	М	Clay	
· · · · ·								
<sup>1</sup> Type: C=Co	oncentration, D=Depletio	on, RM=Reduc	ed Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil In	dicators <sup>3</sup> :		· · · ·				dicators of Hydric S	
Histosol	(A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic Ep	oipedon (A2)		Sandy Redo	x (S5)			Very Shallo	w Dark Surface (F22)
Black Hi	stic (A3)		Stripped Ma	trix (S6)			Other (Expla	ain in Remarks)
Hydroge	en Sulfide (A4)		Dark Surface	. ,				
	d Layers (A5)			xy Mineral (F1)	)			
	ıck (A10)			ed Matrix (F2)				
·	d Below Dark Surface (A	A11)	Depleted Ma				3	
	ark Surface (A12)			Surface (F6)	-			licators have been updated to
	lucky Mineral (S1)		·	rk Surface (F	()			e Field Indicators of Hydric Soils
	icky Peat or Peat (S3)		Redox Depre					tates, Version 8.0, 2016.
	ayer (if observed):							
Type:	-1							Yee No. Y
Depth (in	iches).					пуалс з	Soil Present?	Yes NoX
HYDROLO								
· · · · · · · · · · · · · · · · · · ·								
-	rology Indicators:							
	ators (minimum of one is	s required: che		ed Leaves (B9	))			ors (minimum of two required) I Cracks (B6)
	Water (A1) ater Table (A2)				)			
Saturatio	. ,		Aquatic Fau	Plants (B14)				atterns (B10) Water Table (C2)
	larks (B1)			ulfide Odor (C	1)		Crayfish Bu	· · · ·
	nt Deposits (B2)			zospheres on		s (C3)		/isible on Aerial Imagery (C9)
	posits (B3)			Reduced Iron		(00)		Stressed Plants (D1)
· · · ·	at or Crust (B4)			Reduction in T		26)		Position (D2)
Iron Dep	oosits (B5)		Thin Muck S				FAC-Neutra	
Inundati	on Visible on Aerial Imag	gery (B7)	Gauge or W	ell Data (D9)				
Sparsely	Vegetated Concave Se	urface (B8)	Other (Expla	in in Remarks	5)			
Field Observa	ations:							
Surface Wate	r Present?	Yes No	X Depth (inches	s): N/A				
Water Table I	Present?	Yes No	X Depth (inches	s): N/A				
Saturation Pre	esent?	Yes No	X Depth (inches	s): N/A	Wetlan	d Hydrolog	gy Present?	Yes NoX
(includes capi	llary fringe)							
Describe Rec	orded Data (stream gau	uge, monitoring	। well, aerial photos, pre\	<i>r</i> ious inspectio	ns), if availa	ble:		
Remarks:								
No wetland hyd	drology was observed.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	Sampling Date: 7	/18/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State	-	Sampling Point:		DP-67		
Investigator(s):	K. Carlson, E. Englund					ip, Range: TWP 3N, F				
Landform (hillslope,						al relief (concave, con				
Slope (%):	1% Lat:	42.669523		Long:		37.890601	vex, none)	Datum: NAD8	3 LITM16N	
	e: AtA - Ashkum silty clay loam, 0 to 2 percent slop			Long.		57.000001	NWI classifica			
	logic conditions on the site typical for this time of			Voc	X No	(If no, explain i	-		-	-
-			NI simultinently diet					X X 1	-	
Are Vegetation	N, Soil N	, or Hydrology	N significantly dist			al Circumstances" pre		Yes X N		-
Are Vegetation	N , Soil N	, or Hydrology	N naturally probler			explain any answers	in Remarks.)			
	FINDINGS Attach site map showing	sampling point loca								
, , , ,	getation Present?	Yes <u>x</u>	No		Sampled Are	ea	.,			
Hydric Soil Pres		Yes x	No	withir	n a Wetland?		Yes x	No	_	
Wetland Hydrol	ogy Present?	Yes <u>x</u>	No							
Remarks: WETS analysis det	ermined that the antecedent precipitation conditio	ns were normal. The feature	is a depression of cattails i	n an agricultural	field.					
VEGETATION	Use scientific names of plants.									
Tree Stratum (Plot	eize: 30' radius)		Absolute	Dominant	Indicator	Deminent Test				
	size. 30 radius)		% Cover	Species?	Status	Dominance Test v	vorksheet:			
1 2.			,		· <u> </u>	Number of Dominar	t Species			
3.			,		· <u> </u>	That Are OBL, FAC		2	(A)	
3			,		· <u> </u>	That Are OBE, I AG	w, or rad.	2	(A)	
5.			·			Total Number of Do	minant			
J			·	= Total Cover		Species Across All		2	(B)	
							ottata.		(D)	
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	t Species			
1.						That Are OBL, FAC		100%	(A/E	B)
2.					· <u> </u>	marvie obe, rvie	w, or 17.0.	10070	(//2	2)
3.					·				-	-
4.					·	Prevalence Index v	vorksheet <sup>.</sup>			
5.					· <u> </u>		VorkSneet.			
0.				= Total Cover	· <u> </u>	Total % Co	wer of	Multip	ly by:	
						That Are OBL, FAC			A/B	3
Herb Stratum (Plot	size: 5' radius)					OBL species	65%	x1 =	0.65	-
1. Typha X glauca		_	65%	Yes	OBL	FACW species	35%	x2 =	0.7	-
2. Phalaris arundi	nacea		35%	Yes	FACW	FAC species		x3 =		-
3.						FACU species		x4 =		-
4.						UPL species		x5 =		-
5.						Column Totals:	1.00	(A)	1.35	(B)
6.										-
7.						Prevaler	nce Index = B/A	A = 1.3	35	
8.										-
9.										
10.						Hydrophytic Vege	tation Indicate	ors:		
11.										
12.						X 1-Rapid Te	est for Hydroph	ytic Vegetation		
13.						X 2-Dominar	ice Test is >50°	%		
14.						x 3-Prevalen	ce Index is ≤3.	0 <sup>1</sup>		
15.						4-Morphole	ogical Adaptatio	ons <sup>1</sup> (Provide sup	oporting	
16.						data in Re	marks or on a	separate sheet)		
17.						Problemat	ic Hydrophytic	Vegetation <sup>1</sup> (Exp	olain)	
18.										
19.						<sup>1</sup> Indicators of hydric	soil and wetlar	nd hydrology mu	st	
20.						be present, unless	disturbed or pro	oblematic.		
			100%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes	XNo		
				= Total Cover						
Remarks: (Include The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.									

Depth	Motrix		Dee					
(inches)	Matrix Color (moist)	% C	olor (moist)	lox Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	· ·			70	туре	LUC		Remarks
0-10"	10YR 2/1	100					Clay Loam	
10-36"	10YR 2/1	100					Clay	
I								
· •					-			
	·							
<sup>1</sup> Type: C=Co	oncentration, D=Depletion,	RM=Reduced Ma	trix CS=Covered o	r Coated San	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=N	latrix
Hydric Soil In				· · · · · · · · · · · · · · · · · · ·			dicators of Hydric S	
Histosol			Sandy Gleyed	d Matrix (S4)			•	ese Masses (F12)
	pipedon (A2)	-	Sandy Redox					Dark Surface (F22)
	istic (A3)	-	Stripped Matr					in in Remarks)
	en Sulfide (A4)	-	Dark Surface					,
	d Layers (A5)	-	Loamy Mucky					
	uck (A10)	-	Loamy Gleye	. ,				
	d Below Dark Surface (A1	1)	Depleted Mat					
	ark Surface (A12)	· _	Redox Dark S				<sup>3</sup> The hydric soil indi	cators have been updated to
	/ucky Mineral (S1)	-		k Surface (F7	)			Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)	-	Redox Depre	-	,			ates, Version 8.0, 2016.
	ayer (if observed):		·	. ,				
Type:	ayer (il observeu).							
Depth (in	ches):	<u> </u>				Hydric S	oil Present?	Yes X No
Wetland Hyd	rology Indicators:		bot oppid				Secondary Indicate	re (minimum of two required)
Wetland Hydr Primary Indica	rology Indicators: ators (minimum of one is re	equired: check all t		d Leaves (BQ				ors (minimum of two required)
Wetland Hyde Primary Indica Surface	rology Indicators: ators (minimum of one is re Water (A1)	equired: check all t	Water-Staine	d Leaves (B9)	)		Surface Soil	Cracks (B6)
Wetland Hydromodel Primary Indica Surface High Wa	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2)	equired: check all t - -	Water-Staine Aquatic Faun	a (B13)	)		Surface Soil Drainage Pat	Cracks (B6) tterns (B10)
Wetland Hydr Primary Indica Surface High Wa Saturatio	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3)	equired: check all t - - -	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)			Surface Soil Drainage Pai Dry-Season	Cracks (B6) tterns (B10) Water Table (C2)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) <i>f</i> larks (B1)	equired: check all t - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su	a (B13) Plants (B14) fide Odor (C1	)	2 (C2)	Surface Soil Drainage Pai Dry-Season X Crayfish Burr	Cracks (B6) tterns (B10) Water Table (C2) rows (C8)
Wetland Hydr         Primary Indica         Surface         High Wa         Saturation         Water N         Sediment	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)	equired: check all t - - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	a (B13) Plants (B14) fide Odor (C1 cospheres on I	) Living Roots	s (C3)	Surface Soil Drainage Pat Try-Season X Crayfish Burr X Saturation Vi	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9)
Wetland Hydr Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	equired: check all t - - - - - - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron	) Living Roots (C4)	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) /larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	equired: check all t - - - - - - - - - - - - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti	) Living Roots (C4)	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St         X         Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7)	) Living Roots (C4)	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager	- - - - - - - - - - - - - - - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9)	) Living Roots (C4) Iled Soils (C	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St         X         Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa	- - - - - - - - - - - - - - - - - - -	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9)	) Living Roots (C4) Iled Soils (C	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St         X         Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa		Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron R Thin Muck Su Gauge or We Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks)	) Living Roots (C4) Iled Soils (C	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St         X         Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: pr Present? Ye	ry (B7) ace (B8) asNoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) fide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks)	) Living Roots (C4) Iled Soils (C	( )	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St         X         Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Water	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: pr Present? Ye	ry (B7) ace (B8) esNoX esNoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) II Data (D9) n in Remarks) : <u>N/A</u>	) Living Roots (C4) Iled Soils (C	26)	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Press	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye esent? Ye	ry (B7) ace (B8) asNoX	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron R Thin Muck Su Gauge or We Other (Explain Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) II Data (D9) n in Remarks) : <u>N/A</u>	) Living Roots (C4) Iled Soils (C	26)	Surface Soil         Drainage Pat         Dry-Season         X         Crayfish Burr         X         Saturation Vi         Stunted or St         X         Geomorphic	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye esent? Ye esent? Ye	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> es <u>No X</u>	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) boosits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye esent? Ye	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> es <u>No X</u>	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye esent? Ye esent? Ye	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> es <u>No X</u>	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye Present? Ye esent? Ye esent? Ye ations (Stream gauge	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring well,	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye esent? Ye esent? Ye	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring well,	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye Present? Ye esent? Ye esent? Ye ations (Stream gauge	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring well,	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)
Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa Surface Wate Water Table F Saturation Pre (includes capi Describe Rec	rology Indicators: ators (minimum of one is re Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imager y Vegetated Concave Surfa ations: er Present? Ye Present? Ye esent? Ye esent? Ye ations (Stream gauge	ry (B7) ace (B8) es <u>No X</u> es <u>No X</u> e, monitoring well,	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of f Recent Iron F Thin Muck Su Gauge or We Other (Explain Depth (inches) Depth (inches) Depth (inches)	a (B13) Plants (B14) ifide Odor (C1 ospheres on I Reduced Iron Reduction in Ti rface (C7) Il Data (D9) n in Remarks) 	) Living Roots (C4) lled Soils (C Wetlan	d Hydrolog	Surface Soil Drainage Pat Dry-Season X Crayfish Burr X Saturation Vi Stunted or St X Geomorphic X FAC-Neutral	Cracks (B6) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Roa	d		City/Cou	nty: Racine County	/	\$	Sampling Date	: 7/18/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation				ate: WI	Sampling Poin		. DP-6		
Investigator(s):	K. Carlson, E. Englund					nip, Range: TWP 3N,				
Landform (hillslope,		or				cal relief (concave, co				
Slope (%):	5% Lat:	42.669482		Long:		-87.890515	. <u></u>	Datum: NAI	083 LITM16	6N
	e: AtA - Ashkum silty clay loam, 0 to 2 per			Long		01.000010	NWI classific			
	logic conditions on the site typical for this			v	es X No	(If no, explain	_	auon. <u>100</u>		-
			N -insificanthe			• • • •		V V	No	
Are Vegetation	<u>N</u> , Soil	N , or Hydrology	N significantly			nal Circumstances" pr		Yes X	_No	—
Are Vegetation	<u>N</u> , Soil	N , or Hydrology	N naturally pro			I, explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map sl	nowing sampling point loc	ations, transects, ir	nportant feat	ures, etc.					
	getation Present?	Yes	No <u>x</u>		he Sampled A					
Hydric Soil Pres		Yes	No <u>x</u>	wit	hin a Wetland?		Yes	No	X	
Wetland Hydrole	ogy Present?	Yes	No <u>x</u>							
Remarks: WETS analysis det	ermined that the antecedent precipitation	conditions were normal. The point	is in a wheat field.							
VEGETATION	Use scientific names of plant	S.								
			Absolut	e Dominant	t Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cove	r Species?	Status	Dominance Test	worksheet:			
1										
2.						Number of Domina	ant Species			
3.						That Are OBL, FA	CW, or FAC:	0	(/	A)
4.										
5.						Total Number of D	ominant			
				= Total Cove	r	Species Across A	l Strata:	2	(F	B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	int Species			
1						That Are OBL, FA	CW, or FAC:	0%	, (/	A/B)
2.										
3.										
4.						Prevalence Index	worksheet:			
5.										
				= Total Cove	r	Total % C	over of:	Mul	Itiply by:	
						That Are OBL, FAC	W, or FAC:		A	¥В
Herb Stratum (Plot	size: 5' radius)					OBL species		x1 =		
1. Triticum aestivu	um		40%	Yes	UPL	FACW species		x2 =		
2. Ambrosia arten	nisiifolia		20%	Yes	FACU	FAC species	10%	x3 =	0.3	
3. Sonchus arven	sis		10%	No	FACU	FACU species	30%	x4 =	1.2	
4. Ambrosia trifida	3		10%	No	FAC	UPL species	40%	x5 =	2	
5.						Column Totals:	0.80	(A)	3.5	(B)
6.										
7						Prevale	ence Index = B/	A =	4.38	
8.										
9										
10						Hydrophytic Veg	etation Indicat	ors:		
11.										
12.						1-Rapid 1	Fest for Hydroph	nytic Vegetatio	n	
13.						2-Domina	ance Test is >50	)%		
14.							nce Index is ≤3			
15						4-Morpho	logical Adaptati	ions <sup>1</sup> (Provide :	supporting	
16.						data in R	emarks or on a	separate she	et)	
17.						Problema	atic Hydrophytic	: Vegetation <sup>1</sup> (I	Explain)	
18.										
19.						<sup>1</sup> Indicators of hydr	c soil and wetla	and hydrology r	must	
20.						be present, unless	disturbed or pr	roblematic.		
			80%	= Total Cove	r					
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic				
1.						Vegetation				
2.						Present?	Yes	No X		
				= Total Cove	r				-	
Remarks: (Include	photo numbers here or on a separate she	eet.)				•				
The crop appears h	nealthy.									

Profile Descr	iption: (Describe to the to the tothe to the tothe tot	ne depth needed to	o document the indi	icator or con	firm the abs	sence of ind	dicators.)	
Depth	Matrix			dox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-24"	10YR 2/1	100		·			Loam	
24-30"	10YR 5/2	100					Silty Clay	
<sup>1</sup> Type: C=C	oncentration, D=Depleti	on, RM=Reduced M	Atrix, CS=Covered o	or Coated Sar	d Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil Ir		,	,				dicators of Hydric S	
Histoso	l (A1)		Sandy Gleyed	d Matrix (S4)			Iron-Manga	nese Masses (F12)
Histic E	pipedon (A2)		Sandy Redox	(S5)			Very Shallo	w Dark Surface (F22)
Black H	istic (A3)		Stripped Matr	rix (S6)			Other (Expl	ain in Remarks)
Hydroge	en Sulfide (A4)		Dark Surface	(S7)				
	d Layers (A5)		Loamy Mucky					
	uck (A10)		Loamy Gleye	. ,				
	d Below Dark Surface (	A11)	Depleted Mat				3	
	ark Surface (A12)		Redox Dark S		-		-	dicators have been updated to
	Mucky Mineral (S1)		Depleted Dar Redox Depre		()			e Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)			SSIONS (FO)			In the United S	States, Version 8.0, 2016.
	ayer (if observed):							
Type:								<b>.</b>
Depth (ir	nches):					Hydric So	oil Present?	Yes NoX
HYDROL								
-	rology Indicators:							
	ators (minimum of one i Water (A1)	s required: check a	Water-Staine	d Leaves (B0	)			ors (minimum of two required) I Cracks (B6)
	ater Table (A2)		Aquatic Faun	,	)			atterns (B10)
Saturati			True Aquatic	. ,				Water Table (C2)
	/arks (B1)		Hydrogen Su		1)		Crayfish Bu	· · ·
	nt Deposits (B2)		Oxidized Rhiz		,	(C3)		/isible on Aerial Imagery (C9)
	posits (B3)		Presence of I			. ,	Stunted or S	Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iron F	Reduction in T	illed Soils (C	6)	Geomorphi	c Position (D2)
Iron Dep	posits (B5)		Thin Muck Su	urface (C7)			FAC-Neutra	ll Test (D5)
Inundati	on Visible on Aerial Ima	gery (B7)	Gauge or We	ell Data (D9)				
Sparsel	y Vegetated Concave S	urface (B8)	Other (Explain	n in Remarks	)			
Field Observ	ations:							
Surface Wate	er Present?	Yes No X	Depth (inches)	): N/A				
Water Table	Present?	Yes No X	Depth (inches)	): N/A				
Saturation Pr	esent?	Yes No X	Depth (inches)	): N/A	Wetlan	d Hydrolog	y Present?	Yes NoX
(includes cap								
Describe Red	corded Data (stream ga	uge, monitoring wel	ll, aerial photos, previ	ious inspectio	ns), if availal	ole:		
Remarks:								
	drology was observed.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	ampling Da	ite: 7/25/201	18
Applicant/Owner:	Wisconisn Dept. of Transportation				: WI	Sampling Point		DP-		
Investigator(s):	C. Firkus, E. Englund					ip, Range: TWP 3N,	-			
Landform (hillslope,						al relief (concave, cor				
Slope (%):	0-2% Lat:	42.669537		Long:	•	87.894822	100x, 110110). 00		AD83 UTM1	16N
	e: VaB - Varna silt loam, 2 to 6 percent slopes	42.000007				01.004022	NWI classifica		one	
	blogic conditions on the site typical for this time of	100r2		Vac	X No	(If no, explain	-	11011.	5110	
	<b>o</b>		NI simulta satisfica					N/s s	V N-	
Are Vegetation	N, Soil N	, or Hydrology	N significantly dis			al Circumstances" pre		res	X_No	
Are Vegetation	N, Soil N	, or Hydrology	N naturally proble			explain any answers	in Remarks.)			
	FINDINGS Attach site map showin	g sampling point loo	cations, transects, imp	ortant featur	es, etc.					
, , , ,	getation Present?	Yes x	No	-	Sampled Are	ea				
Hydric Soil Pres		Yes x	No	within	n a Wetland?		Yes x	No		
Wetland Hydrol	ogy Present?	Yes <u>x</u>	No	-						
Remarks: WETS analysis det	termined that the antecedent precipitation condition	ons were normal. The featu	ure is a roadside ditch.							
VEGETATION	Use scientific names of plants.									
Tree Stratum (Plot	cize: 30' radius)		Absolute	Dominant	Indicator	Deminent Test				
	size. So fadius)		% Cover	Species?	Status	Dominance Test	worksheet:			
1					·	Number of Dessing				
2					·	Number of Domina That Are OBL, FAC				(4)
3.					·	That Are OBL, FAC	W, OF FAC.		2	(A)
4					·	Tatal Number of D				
5				= Total Cover	·	Total Number of Do			2	(D)
				= Total Cover		Species Across All	Strata:		2	(B)
Conling/Chruh Strot	(Distained 15' radius)					Descent of Descing				
	tum (Plot size: 15' radius)					Percent of Dominal		40	2007	(4/D)
1					·	That Are OBL, FAC	W, of FAC:	10	00%	(A/B)
2					·					
3					·					
4					·	Prevalence Index	worksheet:			
5.										
				= Total Cover		Total % C That Are OBL, FAC		M	lultiply by:	A/B
Herb Stratum (Plot	teize: 5' radiue)					OBL species	25%	x1 =	0.25	ND
1. Phalaris arundi			40%	Yes	FACW	FACW species	40%		0.23	
2. Carex stricta	indeed .		25%	Yes	OBL	FAC species	10%		0.3	
3. Poa pratensis			10%	No	FAC	FACU species	5%		0.2	
4. Cirsium arvens	20		5%	No	FACU	UPL species	070	x5 =	0.2	
5.						Column Totals:	0.80	(A)	1.55	(B)
6.			·		·	Column Foldio.				(2)
7.			·		·	Prevale	nce Index = B/A	<u>ـ</u> ــ	1.94	
8.			·		·	Trevale			1.04	—
9			·		·					
10.			·		·	Hydrophytic Vege	tation Indicate	ore.		
11.					·	nyaropnyae vege				
12.			·		·	¥ 1-Rapid T	est for Hydroph	vtic Venetat	tion	
13.			·		·		nce Test is >50			
13			·		·		ice Index is ≤3.			
15.			·		·		ogical Adaptatio		e supporting	a
16.			· · · · · · · · · · · · · · · · · · ·		·		emarks or on a			,
17.					·		tic Hydrophytic	•		
18.					·				(	
			· ·		·	<sup>1</sup> Indicators of hydrid	soil and wetla	nd hydrolog	v muet	
19					·	-			ymust	
20			80%	Total Cavar	·	be present, unless	disturbed of pro	Joiematic.		
			80%	= Total Cover						
Marada Mara										
	m (Plot size: 30' radius)					Hydrophytic				
1					·	Vegetation	<b>v</b> . •	~ ••		
2						Present?	Yes	× No	—	
				= Total Cover						
Pomorkov (Include	photo numbers here or on a concrete skart )					<u> </u>				
	photo numbers here or on a separate sheet.) s mowed, but was able to be idenitified.									

	ription: (Describe to th	e depth needed	to document the ind	icator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix		Red	dox Features			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-2"	10YR 3/2	100					Silty Clay	
2-24"	10YR 5/2	95	10YR 5/6	5	С	М	Clay	
				·				
<sup>1</sup> Type: C=C	oncentration, D=Depletic	on, RM=Reduced	Matrix, CS=Covered of	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=N	Matrix.
Hydric Soil I		,	,				dicators of Hydric S	
Histoso	l (A1)		Sandy Gleye	d Matrix (S4)			Iron-Mangan	ese Masses (F12)
Histic E	pipedon (A2)		Sandy Redox	(S5)			Very Shallow	v Dark Surface (F22)
Black H	istic (A3)		Stripped Mat	rix (S6)			Other (Expla	in in Remarks)
, 。	en Sulfide (A4)		Dark Surface	. ,				
	d Layers (A5)			y Mineral (F1)	)			
	uck (A10)		Loamy Gleye					
· · ·	d Below Dark Surface (A	411)	X Depleted Ma				<sup>3</sup> The huddie esiliad	instant have been undeted to
	ark Surface (A12) Mucky Mineral (S1)		Redox Dark	Surface (F6) rk Surface (F7	7)		-	icators have been updated to Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)		X Redox Depre	-	,			tates, Version 8.0, 2016.
				3310113 (1 0)				
	ayer (if observed):							
Type: Depth (ii	achos):					Hydric S	oil Present?	Yes X No
						Tiyano e		
HYDROL								
()								
-	Irology Indicators: ators (minimum of one is	required: check	all that apply)				Secondary Indicate	ors (minimum of two required)
	Water (A1)	required. check	11.27	d Leaves (B9	9)		Surface Soil	
	ater Table (A2)		Aquatic Faun		,		Drainage Pa	
Saturati			True Aquatic	• •				Water Table (C2)
Water M	Marks (B1)		Hydrogen Su	lfide Odor (C	1)		Crayfish Bur	rows (C8)
Sedime	nt Deposits (B2)		Oxidized Rhiz	zospheres on	Living Root	s (C3)	Saturation V	isible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence of	Reduced Iron	(C4)		Stunted or S	tressed Plants (D1)
	at or Crust (B4)			Reduction in T	illed Soils (C	C6)	X Geomorphic	
	posits (B5)		Thin Muck Su				X FAC-Neutral	Test (D5)
	on Visible on Aerial Imag		Gauge or We	. ,				
Sparsel	y Vegetated Concave Su	urface (B8)	Other (Explai	n in Remarks	5)			
Field Observ	ations:							
Surface Wate	er Present?	Yes No X		): N/A				
Water Table		Yes No X		·				
Saturation Pr		Yes No X	Depth (inches	): N/A	Wetlan	d Hydrolog	gy Present?	Yes <u>X</u> No
(includes cap	corded Data (stream gau		ell aerial photos, prev	ious inspectio	ne) if availa	hle.		
Describe rec		ige, monitoring w	en, aenai priotos, prev		(13), ii uvulu			
Remarks:								
The feature ap	opears to convey surface	water during rain	events.					

Project/Site:	CTH KR, CTH H to Old Green Bay Road				Citv/County	: Racine County		S	ampling Dat	te: 7/25/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation					e: WI	Sampling Point		DP-		-
Investigator(s):	C. Firkus, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, cor				
Slope (%):	0-2% Lat:	42.669537			Long:	•	7.894822	vex, none). con		AD83 UTM16	6N
	e: VaB - Varna silt loam, 2 to 6 percent slopes	42.003037			Long.	-	1.034022	NWI classifica		one	
		10052			Vee	X No	(If no sympletic	-	auon. <u>ne</u>	ne	
	logic conditions on the site typical for this time of						(If no, explain		., .		
Are Vegetation	N, Soil N	, or Hydrology		nificantly dist			al Circumstances" pre		Yes	X_No	
Are Vegetation	N, Soil N	, or Hydrology		urally probler			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showin	g sampling point loca	ations, trans	ects, impo	ortant featur	es, etc.					
	getation Present?	Yes	No	Х		e Sampled Are	ea				
Hydric Soil Pres		Yes	No	Х	within	n a Wetland?		Yes	No	Х	
Wetland Hydrold	ogy Present?	Yes	No	Х							
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	ons were normal. The point i	s on a road sho	oulder.							
<b>VEGETATION</b> -	Use scientific names of plants.										
				Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		_	% Cover	Species?	Status	Dominance Test	worksheet:			
1						·					
2						·	Number of Domina				
3.						·	That Are OBL, FAC	W, or FAC:		1 (4	A)
4.						·					
5.						·	Total Number of Do	ominant			
					= Total Cover		Species Across All	Strata:		5 (	B)
Sapling/Shrub Strate	tum (Plot size: 15' radius)						Percent of Domina	nt Species			
1					·	·	That Are OBL, FAC	W, or FAC:	20	)% (/	A/B)
2					·	·					
3.					·	·					
4.							Prevalence Index	worksheet:			
5.											
					= Total Cover		Total % C		M	ultiply by:	
							That Are OBL, FAC	W, or FAC:		A	λ/B
Herb Stratum (Plot	size: 5' radius)	_					OBL species		x1 =		
1. Dactylis glomera	rata			15%	Yes	FACU	FACW species		x2 =		
2. Poa pratensis				15%	Yes	FAC	FAC species	15%	x3 =	0.45	
3. Convolvulus arv	vensis			15%	Yes	UPL	FACU species	60%	x4 =	2.4	
4. Cirsium arvense	e			15%	Yes	FACU	UPL species	25%	x5 =	1.25	
5. Ambrosia artem	nisiifolia			15%	Yes	FACU	Column Totals:	1.00	(A)	4.1	(B)
6. Chenopodium a	album			10%	No	FACU					
7. Daucus carota				10%	No	UPL	Prevale	nce Index = B/A	\ =	4.10	
8. Schedonorus ar	rundinaceus			5%	No	FACU					
9.						·					
10						·	Hydrophytic Vege	tation Indicate	ors:		
11											
12.					·	·	1-Rapid T	est for Hydroph	ytic Vegetati	on	
13.								nce Test is >50°			
14								nce Index is ≤3.			
15.					·	·	4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provide	supporting	
16.								emarks or on a	•	,	
17							Problema	tic Hydrophytic	Vegetation <sup>1</sup>	(Explain)	
18					·	·					
19							<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrology	/ must	
20.							be present, unless	disturbed or pro	oblematic.		
				100%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1							Vegetation				
2.							Present?	Yes	No	x	
					= Total Cover						
	photo numbers here or on a separate sheet.) mowed, but was still able to be identified.										

	ription: (Describe to th	e depth needed			firm the ab	sence of in	dicators.)			
Depth	Matrix			dox Features	- 1		-			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks	
0-16"	10YR 2/1	100					Silty Clay			
16-24"	10YR 4/2	50	10YR 4/4	50	С	М	Clay			
				_						
		_								
						·				
						·				
	oncentration, D=Depletio	on, RM=Reduced	Matrix, CS=Covered	or Coated San	nd Grains.		PL=Pore Lining, M=			
Hydric Soil I						Test In	dicators of Hydric S			
Histoso				ed Matrix (S4)				nese Masses (F12)		
	pipedon (A2)		Sandy Redo					w Dark Surface (F2	2)	
	listic (A3)		Stripped Ma	. ,			Other (Expl	ain in Remarks)		
	en Sulfide (A4)		Dark Surfac	. ,						
	d Layers (A5)			(F1) wineral (F1)						
	uck (A10)			ed Matrix (F2)						
	d Below Dark Surface (	411)	Depleted Ma				3			
	ark Surface (A12)			Surface (F6)				dicators have been u		
	Mucky Mineral (S1)		·	rk Surface (F7	()		1,5	e Field Indicators of		
5 cm M	ucky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United S	States, Version 8.0,	2016.	
Restrictive L	ayer (if observed):									
Туре:										
Depth (i	nches):					Hydric S	oil Present?	Yes	No	Х
Remarks:	s indicators were observe	ad								
NO HYUNC SOIL		eu.								
HYDROL	DGY									
Wetland Hyd	Irology Indicators:						_			
Primary Indic	ators (minimum of one is	s required: check	all that apply)				Secondary Indicat	ors (minimum of two	o required)	
Surface	Water (A1)		Water-Stain	ed Leaves (B9	)		Surface Soi	l Cracks (B6)		
High W	ater Table (A2)		Aquatic Fau	na (B13)			Drainage Pa	atterns (B10)		
Saturat	on (A3)		True Aquatio	Plants (B14)			Dry-Seasor	Water Table (C2)		
Water M	/larks (B1)		Hydrogen S	ulfide Odor (C1	1)		Crayfish Bu	rrows (C8)		
Sedime	nt Deposits (B2)		Oxidized Rh	izospheres on	Living Roots	s (C3)	Saturation \	isible on Aerial Ima	gery (C9)	
Drift De	posits (B3)		Presence of	Reduced Iron	(C4)		Stunted or S	Stressed Plants (D1	)	
Algal M	at or Crust (B4)		Recent Iron	Reduction in T	illed Soils (C	C6)	Geomorphi	c Position (D2)		
Iron De	posits (B5)		Thin Muck S	urface (C7)			FAC-Neutra	ll Test (D5)		
Inundat	on Visible on Aerial Imag	gery (B7)	Gauge or W	ell Data (D9)						
Sparse	y Vegetated Concave S	urface (B8)	Other (Expla	in in Remarks)	)					
Field Observ	ations									
			( Dapth (inchor	NI/A						
Surface Wate		Yes No Xes No Xes No Xes	_							
Water Table					Wetler	م السمامة	n Dracant?	Vaa	Na	v
Saturation Pr (includes cap		Yes No	C Depth (inches	s): <u>N/A</u>	wetian	ια πγαιοιος	y Present?	Yes	No	X
	corded Data (stream ga		ell aerial photos prev	ious inspectio	ns) if availa	hlo.				
Propertie I/6	Solucia Dala (Sileani ya	sgo, monitoring w								
Remarks:										
	drology was observed.									

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County:	Kenosha Count	у	Si	ampling Date:	7/25/2018	
Applicant/Owner:	Wisconisn Dept. of Transportation			State:		Sampling Point		. 0 DP-71		
Investigator(s):	C. Firkus, E. Englund					p, Range: TWP 2N,				
Landform (hillslope,						al relief (concave, co				
Slope (%):	0-2% Lat:	42.66827		Long:		37.895149		Datum: NAD8	3 UTM16N	
	e: AtA - Ashkum silty clay loam, 0 to 2 percent slope						NWI classifica			
	logic conditions on the site typical for this time of ye			Yes	X No	(If no, explain				
Are Vegetation	N , Soil N	, or Hydrology N	significantly dist	-		al Circumstances" pre		Yes X	No	
Are Vegetation	N , Soil N	, or Hydrology N	naturally probler			explain any answers				
-	FINDINGS Attach site map showing s					explain any answers	in remains.)			
	getation Present?		No		Sampled Are					
Hydric Soil Pres		Yes <u>x</u> Yes x	No		a Wetland?	a	Yes x	No		
Wetland Hydrold		Yes X	No		a monana.					
Remarks: WETS analysis det	ermined that the antecedent precipitation conditions	were normal. The feature is a	seasonally flooded bas	in in an agricultur	al field.					
VEGETATION ·	Use scientific names of plants.					1				
T 01 / 101 /			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test	worksheet:			
1										
2						Number of Domina	-		(4)	
3						That Are OBL, FAG	SW, or FAC:	1	(A)	
4						Total Number of D	ominant			
5				= Total Cover		Species Across Al		2	(B)	
						Species Across Ar	Strata.	Z	(B)	
Sanling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	int Species			
1.						That Are OBL, FAG	-	50%	(A/B)	
2.						1110 0D2, 171	,		(,,,,,,)	
3.										
4.						Prevalence Index	worksheet:			
5.										
				= Total Cover		Total % C	over of:	Multir	oly by:	
						That Are OBL, FAC			A/B	
Herb Stratum (Plot	size: 5' radius)					OBL species		x1 =		
1. Persicaria maci	ulosa		60%	Yes	FACW	FACW species	65%	x2 =	1.3	
2. Amaranthus ret	troflexus		25%	Yes	FACU	FAC species		x3 =		
3. Echinochloa cru	us-galli		5%	No	FACW	FACU species	25%	x4 =	1	
4.						UPL species		x5 =		
5.						Column Totals:	0.90	(A)	2.3 (B	3)
6.										
7						Prevale	ence Index = B/A	= 2.	56	
8.										
9										
10						Hydrophytic Veg	etation Indicato	rs:		
11										
12						1-Rapid T	est for Hydrophy	tic Vegetation		
13							nce Test is >50%			
14							nce Index is ≤3.0			
15							logical Adaptatio			
16							emarks or on a s			
17						Problema	atic Hydrophytic \	vegetation" (Ex	(plain)	
18						1				
19						<sup>1</sup> Indicators of hydri			ust	
20						be present, unless	disturbed or pro	blematic.		
			90%	= Total Cover						
	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation	V	( N		
2				- Total Cause		Present?	Yes X			
				= Total Cover						
Remarke: (Include	photo numbers here or on a separate sheet.)					Į				
	he feature has no vegetation due to flooding.									

Profile Desc	ription: (Describe to the	s depuir needed					alcators.)	
Depth	Matrix		Re	dox Features			-	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18"	10YR 2/1	100					Clay Loam	
18-24"	10YR 4/2	85	10YR 4/6	15	С	М	Silty Clay	
		· ·						
		· ·				·		
		·				·		
	Concentration, D=Depletion	PM-Poducoc	Matrix CS-Covorod	or Costod Sar	d Grains	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix
Hydric Soil I				or coaled dar	la Orains.		dicators of Hydric S	
Histoso			Sandy Gleve	ed Matrix (S4)			-	nese Masses (F12)
	Epipedon (A2)		Sandy Redo					w Dark Surface (F22)
	Histic (A3)		Stripped Ma					ain in Remarks)
Hydrog	en Sulfide (A4)		Dark Surfac					
Stratifie	ed Layers (A5)		Loamy Mucl	ky Mineral (F1)	)			
2 cm M	luck (A10)		Loamy Gley	ed Matrix (F2)				
Deplete	ed Below Dark Surface (A	11)	Depleted Ma	atrix (F3)				
X Thick D	Dark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil inc	dicators have been updated to
Sandy I	Mucky Mineral (S1)		Depleted Da	ark Surface (F7	7)		comply with the	e Field Indicators of Hydric Soils
5 cm M	lucky Peat or Peat (S3)		Redox Depr	essions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive L	.ayer (if observed):							
Туре:								
Depth (i	inches):					Hydric S	oil Present?	Yes X No
Remarks:								
	es were found in a deplete	d layer beneath	a dark surface.					
HYDROL	067							
HYDROL								
Wetland Hyd	drology Indicators:	required: check	all that anniv)				Secondary Indicat	ors (minimum of two required)
Wetland Hyd Primary Indic	drology Indicators: cators (minimum of one is	required: check		ed Leaves (B9	9)			ors (minimum of two required) I Cracks (B6)
Wetland Hyd Primary India Surface	drology Indicators: cators (minimum of one is e Water (A1)	required: check	Water-Stain	ed Leaves (B9	))		X Surface Soi	l Cracks (B6)
Wetland Hyd Primary Indic Surface High W	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2)	required: check	Water-Stain	na (B13)	))		X Surface Soi	l Cracks (B6) atterns (B10)
Wetland Hyd         Primary Indic         Surface         High W         Saturat	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3)	required: check	Water-Stain Aquatic Fau True Aquatic	na (B13) c Plants (B14)			X Surface Soi Drainage Pa Dry-Season	l Cracks (B6) atterns (B10) I Water Table (C2)
Wetland Hyc Primary Indic Surface High W Saturat Water I	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S	na (B13) c Plants (B14) ulfide Odor (C´	1)	s (C3)	X Surface Soi Drainage Pa Dry-Season Crayfish Bu	l Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8)
Wetland Hyc           Primary Indic	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C <sup>2</sup> izospheres on	1) Living Root:	s (C3)	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V	l Cracks (B6) atterns (B10) i Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9)
Wetland Hyc           Primary Indic           Surface           High W           Saturat           Water I           Sedime           Drift De	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of	na (B13) c Plants (B14) ulfide Odor (C´	1) Living Roots (C4)		X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S	l Cracks (B6) atterns (B10) v Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Hyc           Primary Indic           Surface           High W           Saturat           Water I           Sedime           Drift De           Algal M	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T	1) Living Roots (C4)		X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc           Primary Indic           Surface           High W           Saturat           Water I           Sedime           Drift De           Algal M           Iron De	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4)		Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T	1) Living Roots (C4)		X Surface Soi Drainage Pa Dry-Season Crayfish Bui X Saturation V Stunted or S X Geomorphic	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc Primary Indic Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5)	ery (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7)	1) Living Root: (C4) ïlled Soils (C		X Surface Soi Drainage Pa Dry-Season Crayfish Bui X Saturation V Stunted or S X Geomorphic	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc Primary Indic Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inundat Sparse	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag	ery (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) ell Data (D9)	1) Living Root: (C4) ïlled Soils (C		X Surface Soi Drainage Pa Dry-Season Crayfish Bui X Saturation V Stunted or S X Geomorphic	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag	ery (B7) rface (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T ourface (C7) ell Data (D9) ain in Remarks	1) Living Root: (C4) ïlled Soils (C		X Surface Soi Drainage Pa Dry-Season Crayfish Bui X Saturation V Stunted or S X Geomorphic	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Water	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ly Vegetated Concave Su vations: er Present?	ery (B7) rface (B8) Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) ell Data (D9) in in Remarks s): <u>N/A</u>	1) Living Root: (C4) ïlled Soils (C		X Surface Soi Drainage Pa Dry-Season Crayfish Bui X Saturation V Stunted or S X Geomorphic	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Water Table	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present?	ery (B7) rface (B8) Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     Depth (inchest     X	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T furface (C7) 'ell Data (D9) ain in Remarks s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C	26)	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Wate         Water Table         Saturation Prime	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ly Vegetated Concave Su vations: ere Present?	ery (B7) rface (B8) Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     Depth (inchest     X	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T furface (C7) 'ell Data (D9) ain in Remarks s): <u>N/A</u>	1) Living Root: (C4) ïilled Soils (C	26)	X Surface Soi Drainage Pa Dry-Season Crayfish Bui X Saturation V Stunted or S X Geomorphic	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Water         Water Table         Saturation Pri         (includes cap)	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present? Present?	ery (B7) rface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Water         Water Table         Saturation Pri         (includes cap)	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ly Vegetated Concave Su vations: ere Present?	ery (B7) rface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Water         Water Table         Saturation Pri         (includes cap)	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present? Present?	ery (B7) rface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Water         Water Table         Saturation Pri         (includes cap)	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present? Present?	ery (B7) rface (B8) Yes No Yes No Yes No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Wate         Water Table         Saturation Privince         (includes cap)         Describe Re         Remarks:	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present? Present?	ery (B7) rface (B8) Yes No Yes No ge, monitoring v	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Expla      X     Depth (inches     X     De	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Wate         Water Table         Saturation Privince         (includes cap)         Describe Re         Remarks:	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present? Present? Present? pillary fringe) ecorded Data (stream gau	ery (B7) rface (B8) Yes No Yes No ge, monitoring v	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Expla      X     Depth (inches     X     De	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)
Wetland Hyc         Primary Indic         Surface         High W         Saturat         Water I         Sedime         Drift De         Algal M         Iron De         Inundat         Sparse         Field Observ         Surface Wate         Water Table         Saturation Privince         (includes cap)         Describe Re         Remarks:	drology Indicators: cators (minimum of one is e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aerial Imag ely Vegetated Concave Su vations: ere Present? Present? Present? pillary fringe) ecorded Data (stream gau	ery (B7) rface (B8) Yes No Yes No ge, monitoring v	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Expla      X     Depth (inches     X     De	na (B13) c Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T curface (C7) iell Data (D9) nin in Remarks s): N/A s): N/A	1) Living Root: (C4) ïilled Soils (C ) Wetlar	C6) d Hydrolog	X Surface Soi Drainage Pa Dry-Season Crayfish Bu X Saturation V Stunted or S X Geomorphic X FAC-Neutra	I Cracks (B6) atterns (B10) I Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) I Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/Coun	ty: Kenosha Coun	ity	5	Sampling Da	ate: 7/25/20	)18
Applicant/Owner:	Wisconisn Dept. of Transportation					te: WI	Sampling Point			P-72	
Investigator(s):	C. Firkus, E. Englund						ip, Range: TWP 2N,				
Landform (hillslope,		r					cal relief (concave, co				
Slope (%):	0-2% Lat:	42.668271			Long:	-	87.895223	1VCX, 11011C).		AD83 UTM	16N
	e: AtA - Ashkum silty clay loam, 0 to 2 perc						01.000220	NWI classifica	-	lone	
	logic conditions on the site typical for this t				Vo	s X No	(If no, explain	_	auon. <u>1</u>	one	
			N							V N-	
Are Vegetation		N, or Hydrology		nificantly dist			al Circumstances" pre		Yes _	X No	
Are Vegetation		N , or Hydrology		turally probler			, explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map sh	owing sampling point loc	ations, trans	sects, imp	ortant featu	res, etc.					
	getation Present?	Yes	No	Х		e Sampled Ar					
Hydric Soil Pres		Yes <u>x</u>	No_		with	in a Wetland?		Yes	No	Х	
Wetland Hydrole	ogy Present?	Yes	No_	Х							
Remarks: WETS analysis det	ermined that the antecedent precipitation of	onditions were normal. The point	is in a fallow fie	ld.							
VEGETATION	Use scientific names of plants						Γ				
Tree Stratum (Plot	size: 30' radius)			Absolute	Dominant	Indicator	Deminent Test				
	size. SU radius)		-	% Cover	Species?	Status	Dominance Test	worksheet:			
1					·		Number of Demise	-+ 0			
2							Number of Domina			0	(4)
3							That Are OBL, FAG	JW, OF FAC.		0	(A)
4					·		Tatal Number of D	! 4			
5					= Total Cover		Total Number of D Species Across Al				(D)
					= Total Cover		Species Across Ar	Strata.		·	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Domina	nt Spacias			
1.							That Are OBL, FAG			0%	(A/B)
2.							That Are OBL, FAG	JW, UI FAC.		170	(А/В)
3.											
4.							Prevalence Index	workshoot			
4 5.							Frevalence index	worksneet.			
5.					= Total Cover		Total % C	over of		Autobaba	
[							That Are OBL, FAC			Aultiply by:	A/B
Herb Stratum (Plot	size: 5' radius)						OBL species	11, 011710.	x1 =		
1. Portulaca olera		·		75%	Yes	FACU	FACW species	5%	x2 =	0.1	
2. Amaranthus ret				10%	No	FACU	FAC species		x3 =		
3. Persicaria maci				5%	No	FACW	FACU species	85%	x4 =	3.4	
4.							UPL species		x5 =		
5.							Column Totals:	0.90	(A)	3.5	(B)
6.									_`		()
7.					·		Prevale	ence Index = B/A	A =	3.89	
8.					·						
9.											
10.					·		Hydrophytic Veg	etation Indicate	ors:		
11.					·		, , , , , ,				
12.							1-Rapid T	est for Hydroph	vtic Vegeta	tion	
13.								nce Test is >50			
14.								nce Index is ≤3.			
15.							4-Morpho	logical Adaptatio	ons <sup>1</sup> (Provic	le supportir	ig
16.								emarks or on a			-
17.								tic Hydrophytic	-		
18.											
19.							<sup>1</sup> Indicators of hydri	c soil and wetla	nd hvdroloc	av must	
20.					·		be present, unless			,	
				90%	= Total Cover		be present, unless	distance of pro	solemate.		
				3078							
Woody Vine Stratu	m (Plot size: 30' radius)						Hydrophytic				
1.							Hydrophytic Vegetation				
1 2.					·		-	V	N-	¥	
<u></u>					- Total Court		Present?	Yes	No	<u>^</u>	
			-		= Total Cover						
Remarks: (Include	photo numbers here or on a separate shee	ot )					4				
	photo numbers here of on a separate shee	,									

Profile Descr			_				-	
Depth	Matrix			edox Features	<b>-</b> 1	. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20"	10YR 2/1	100					Clay Loam	
20-26"	10YR 4/1	95	10YR 6/6	5	С	М	Silty Clay	
				_				
				_				
<sup>1</sup> Turnet: C=C			d Matrix CS-Covarad	ar Costod Sar	Croine	<sup>2</sup> l contion:	PL-Boro Lipipa M-	Mateix
Hydric Soil Ir	oncentration, D=Depletion			Of Coaleu Sai	10 Giallis.		PL=Pore Lining, M=	
Histoso			Sandy Gley	ed Matrix (S4)		• • • • • •	-	nese Masses (F12)
	pipedon (A2)		Sandy Redo					w Dark Surface (F22)
	listic (A3)		Stripped Ma					ain in Remarks)
	en Sulfide (A4)		Dark Surfac					
	d Layers (A5)			ky Mineral (F1)	1			
	uck (A10)			ved Matrix (F2)				
Deplete	ed Below Dark Surface (A1	11)	Depleted Ma					
X Thick D	ark Surface (A12)		Redox Dark	Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been updated to
Sandy M	Mucky Mineral (S1)		Depleted Da	ark Surface (F7	7)		comply with the	e Field Indicators of Hydric Soils
5 cm M	ucky Peat or Peat (S3)		Redox Depr	ressions (F8)			in the United S	States, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре:								
Depth (ir	nches):					Hydric S	oil Present?	Yes X No
Remarks:	·					-		
HYDROL	OGY							
r	OGY Irology Indicators:							
Wetland Hyd Primary Indic	Irology Indicators: ators (minimum of one is	required: check						tors (minimum of two required)
Wetland Hyd Primary Indic	Irology Indicators:	required: check	Water-Stain	ned Leaves (B9	)			tors (minimum of two required) il Cracks (B6)
Wetland Hyd Primary Indic Surface High Wa	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2)	required: check		,	)		Surface So	
Wetland Hyd Primary Indic Surface High Wa Saturati	trology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3)	required: check	Water-Stain Aquatic Fau True Aquatic	ina (B13) c Plants (B14)	,		Surface So Drainage P Dry-Seasor	il Cracks (B6) atterns (B10) n Water Table (C2)
Wetland Hyd Primary Indic Surface High Wa Saturati Water M	Irology Indicators: ators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S	ina (B13) c Plants (B14) sulfide Odor (C <sup>2</sup>	1)		Surface So Drainage P Dry-Seasor Crayfish Bu	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8)
Wetland Hyd           Primary Indic           Surface           High Wa           Saturati           Water N           Sedime	Irology Indicators: ators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	ina (B13) c Plants (B14) culfide Odor (C <sup>2</sup> nizospheres on	) Living Root:	s (C3)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water M         Sedime         Drift De	Irology Indicators: ators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) mn Deposits (B2) aposits (B3)	required: checł	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of	ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron	) Living Root: (C4)	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Wetland Hyd           Primary Indic           Surface           High Wa           Saturati           Water M           Sedime           Drift De           Algal Ma	Irology Indicators: ators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ent Deposits (B2) aposits (B3) at or Crust (B4)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Resence of Recent Iron	ina (B13) c Plants (B14) sulfide Odor (C nizospheres on f Reduced Iron Reduction in T	) Living Root: (C4)	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd           Primary Indic           Surface           High Wa           Saturati           Water N           Sedime           Drift De           Algal Ma           Iron Dej	Irology Indicators: eators (minimum of one is i e Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) iposits (B3) at or Crust (B4) posits (B5)		Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) c Plants (B14) sulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7)	) Living Root: (C4)	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd           Primary Indic           Surface           High Wa           Saturati           Water N           Sedime           Drift De           Algal Ma           Iron Dej           Inundatia	Irology Indicators: ators (minimum of one is a Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) sposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image	ery (B7)	Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	ina (B13) c Plants (B14) sulfide Odor (C nizospheres on f Reduced Iron Reduction in T	) Living Root: (C4) iilled Soils ((	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd Primary Indic Surface High Wi Saturati Water M Sedime Drift De Algal Mi Iron Dep Inundati Sparsel	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) Posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Sur	ery (B7)	Water-Stain Aquatic Fau True Aquati Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9)	) Living Root: (C4) iilled Soils ((	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd         Primary Indic         Surface         High Wi         Saturati         Water N         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Sur rations:	ery (B7) face (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks	) Living Root: (C4) iilled Soils ((	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water N         Sedime         Drift De         Algal Ma         Iron Dej         Inundati         Sparsel         Field Observ         Surface Wate	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Sur <b>rations:</b> er Present? Y	ery (B7) face (B8) ′es No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Expla X     Depth (inchesed)	ina (B13) c Plants (B14) iulfide Odor (C nizospheres on f Reduced Iron Reduction in T Gurface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u>	) Living Root: (C4) iilled Soils ((	. ,	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water N         Sedime         Drift De         Algal Ma         Iron Dej         Inundati         Sparsel         Field Observ         Surface Water         Water Table	Irology Indicators: iators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) Posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image ly Vegetated Concave Sur Vations: er Present? Y	ery (B7) face (B8) ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Gurface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C	26)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Inundati Sparsel Field Observ Surface Wate Yater Table	Irology Indicators: ators (minimum of one is ) Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ator Crust (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image Iv Vegetated Concave Sur Present? Y resent? Y	ery (B7) face (B8) ′es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inchest)         X       Depth (inchest)	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Gurface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C	26)	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi	il Cracks (B6) atterns (B10) n Water Table (C2) nrrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water M         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Sutface Water         Saturation Pr         (includes cap)	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ator Crust (B2) ator Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Present? Y resent? Y resent? Y	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water M         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Sutface Water         Saturation Pr         (includes cap)	Irology Indicators: ators (minimum of one is ) Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ator Crust (B2) posits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Image Iv Vegetated Concave Sur Present? Y resent? Y	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water M         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Sutface Water         Saturation Pr         (includes cap)	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ator Crust (B2) ator Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Present? Y resent? Y resent? Y	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd         Primary Indic         Surface         High Wa         Saturati         Water M         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Sutface Water         Saturation Pr         (includes cap)	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ator Crust (B2) ator Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Present? Y resent? Y resent? Y	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd         Primary Indic         Surface         High Wi         Saturati         Water N         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Surface Water Table         Saturation Pr         (includes cap)         Describe Red         Remarks:	Irology Indicators: ators (minimum of one is i Water (A1) ater Table (A2) ion (A3) Marks (B1) Marks (B1) ator Crust (B2) ator Crust (B4) posits (B5) ion Visible on Aerial Image by Vegetated Concave Sur rations: er Present? Present? Y resent? Y resent? Y	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd         Primary Indic         Surface         High Wi         Saturati         Water N         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Surface Water Table         Saturation Pr         (includes cap)         Describe Red         Remarks:	Arology Indicators:     Eators (minimum of one is is ators (minimum of one is is ators (mainimum of one is is ators (mainimum of one) ator (A1)     ater Table (A2)     ion (A3)     Marks (B1)     white Deposits (B2)     ion Orust (B4)     posits (B5)     ion Visible on Aerial Image     ty Vegetated Concave Sur     rations:     er Present?     Y     resent?     Y     resent?     Y     iillary fringe)     corded Data (stream gauge	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)
Wetland Hyd         Primary Indic         Surface         High Wi         Saturati         Water N         Sedime         Drift De         Algal Ma         Iron Deg         Inundati         Sparsel         Field Observ         Surface Water Table         Saturation Pr         (includes cap)         Describe Red         Remarks:	Arology Indicators:     Eators (minimum of one is is ators (minimum of one is is ators (mainimum of one is is ators (mainimum of one) ator (A1)     ater Table (A2)     ion (A3)     Marks (B1)     white Deposits (B2)     ion Orust (B4)     posits (B5)     ion Visible on Aerial Image     ty Vegetated Concave Sur     rations:     er Present?     Y     resent?     Y     resent?     Y     iillary fringe)     corded Data (stream gauge	ery (B7) face (B8) ⁄es No ⁄es No	Water-Stain         Aquatic Fau         True Aquatic         Hydrogen S         Oxidized Rh         Presence of         Recent Iron         Thin Muck S         Gauge or W         Other (Expland)         X       Depth (inche:         X       Depth (inche:         X       Depth (inche:	ina (B13) c Plants (B14) iulfide Odor (C' nizospheres on f Reduced Iron Reduction in T Surface (C7) /ell Data (D9) ain in Remarks s): <u>N/A</u> s): <u>N/A</u>	) Living Root: (C4) iilled Soils (C ) Wetlar	C6) nd Hydrolog	Surface So Drainage P Dry-Seasor Crayfish Bu Saturation V Stunted or S Geomorphi FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) al Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Kenosha Coun	ty	s	ampling Date	ə: 7/25/2011	8
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point:		DP-7	-	
Investigator(s):	C. Firkus, E. Englund					ip, Range: TWP 2N, F				
Landform (hillslope						al relief (concave, con				
Slope (%):	0-2% Lat:	42.667953		Long:		87.895389	· · · · · <u>· · ·</u>		D83 UTM16	δN
	e: EtB - Elliott silty clay loam, 2 to 6 percent slopes			<u> </u>			NWI classifica			
	blogic conditions on the site typical for this time of			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology	N significantly dist			al Circumstances" pres		Yes X	No	
Are Vegetation	N , Soil N	, or Hydrology	N naturally probler			explain any answers i				—
	FINDINGS Attach site map showing		,				,			
	equation Present?					~~				
Hydric Soil Pres	0	Yes <u>x</u> Yes x	No No		e Sampled Are n a Wetland?	ed	Yes x	No		
Wetland Hydrol		Yes x	No	within						
Remarks:		<u></u>								
	termined that the antecedent precipitation conditio	ns were normal. The feature	is a swale of cattails drainin	ng an agricultura	l field.					
VEGETATION	Use scientific names of plants.					1				
Tree Stratum (Diet			Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% Cover	Species?	Status	Dominance Test w	orksheet:			
1					·					
2					·	Number of Dominar That Are OBL, FAC				•
3					·	That Are OBL, FAC	W, OF FAC:	2		A)
4					·	Total Number of Do	minent			
5				= Total Cover		Species Across All		2		D)
						Species Across Air	Strata.	2	(	B)
Sanling/Shrub Stra	tum (Plot size: 15' radius)					Percent of Dominan	t Species			
1.	(11010)20110 10000					That Are OBL, FAC	-	100	1% (/	A/B)
2.						That Are OBE, I AO	W, OFFAC.	100	<u>/0</u> (/	~0)
3.					· <u> </u>					
4.					·	Prevalence Index v	orksheet.			
5.					·					
0.				= Total Cover	·	Total % Co	ver of	Mi	ultiply by:	
						That Are OBL, FAC				VВ
Herb Stratum (Plot	t size: 5' radius)					OBL species	40%	x1 =	0.4	
1. Typha X glauca	a	_	40%	Yes	OBL	FACW species	25%	x2 =	0.5	
2. Phalaris arundi	inacea		20%	Yes	FACW	FAC species	5%	x3 =	0.15	
3. Persicaria mac	culosa		5%	No	FACW	FACU species		x4 =		
4. Rumex Crispus	s		5%	No	FAC	UPL species		x5 =		
5.						Column Totals:	0.70	(A)	1.05	(B)
6.										
7.						Prevaler	ice Index = B/A	ι =	1.50	
8.										
9.										
10.						Hydrophytic Vege	tation Indicate	ors:		
11.										
12.						X 1-Rapid Te	st for Hydroph	ytic Vegetatic	วท	
13.						X 2-Dominan	ce Test is >50	%		
14.						x 3-Prevalen	ce Index is ≤3.	J1		
15.						4-Morpholo	gical Adaptatio	ons <sup>1</sup> (Provide	supporting	
16.						data in Re	marks or on a	separate she	et)	
17.						Problemat	ic Hydrophytic	Vegetation <sup>1</sup> (	(Explain)	
18.										
19.						<sup>1</sup> Indicators of hydric	soil and wetla	nd hydrology	must	
20.						be present, unless	disturbed or pro	oblematic.		
			70%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic				
1.						Vegetation				
2.						Present?	Yes	K		
				= Total Cover						
Remarks: (Include The vegetation is s	photo numbers here or on a separate sheet.) similar throughout.									

Depth (inches) 0-16"	Matrix		RP	dox Features				
· · · · · · · · ·	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	10YR 2/1	100					Silty Clay	
						. <u> </u>		
16-22"	10YR 2/1	95	10YR 5/6	5	<u> </u>	<u>M</u>	Silty Clay	
22-28"	10YR 4/2	80	10YR 5/6	20	С	M	Silty Clay	
=								
		·						
21		n, RM=Redu	ced Matrix, CS=Covered	or Coated Sa	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix.
Hydric Soil In						Test Ir	ndicators of Hydric S	Soils:
Histosol				ed Matrix (S4)				nese Masses (F12)
	pipedon (A2)		Sandy Redo					v Dark Surface (F22)
Black His			Stripped Ma				Other (Expla	ain in Remarks)
	n Sulfide (A4)		Dark Surface					
	Layers (A5)			xy Mineral (F1				
2 cm Mu				ed Matrix (F2)				
	d Below Dark Surface (A	(11)	Depleted Ma					
	ark Surface (A12)			Surface (F6)			•	licators have been updated to
	lucky Mineral (S1)			rk Surface (F	7)			Field Indicators of Hydric Soils
5 cm Mu	cky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	tates, Version 8.0, 2016.
Restrictive La	iyer (if observed):							
Туре:			_					
Depth (ind	ches):					Hydric \$	Soil Present?	Yes X No
edux reatures	were round in a depiete	ed layer bene	ath a dark surface.					
		ed layer bene	ath a dark surface.					
<b>TYDROLC</b> Wetland Hydr	OGY rology Indicators:							
<b>HYDROLC</b> Wetland Hydr Primary Indica	OGY rology Indicators: ttors (minimum of one is		eck all that apply)					ors (minimum of two required)
HYDROLC Wetland Hydr Primary Indica Surface	OGY rology Indicators: ators (minimum of one is Water (A1)		eck all that apply) Water-Stain	ed Leaves (BS	9)		Surface Soil	Cracks (B6)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa	OGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2)		eck all that apply) Water-Stain	na (B13)	9)		Surface Soil Drainage Pa	Cracks (B6) atterns (B10)
HYDROLC Wetland Hydr Primary Indica Surface	OGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2)		eck all that apply) Water-Stain Aquatic Fau True Aquatic	na (B13) : Plants (B14)			Surface Soil Drainage Pa Dry-Season	Cracks (B6) atterns (B10) Water Table (C2)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M	OGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1)		eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St	na (B13) : Plants (B14) ulfide Odor (C	1)		Surface Soil Drainage Pa Dry-Season Crayfish Bur	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) tt Deposits (B2)		eck all that apply) Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi	na (B13) Plants (B14) ulfide Odor (C zospheres on	) Living Root	s (C3)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	Cracks (B6) atterns (B10) Water Table (C2) rows (C8) fisible on Aerial Imagery (C9)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen	OGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1)		eck all that apply) Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi	na (B13) : Plants (B14) ulfide Odor (C	) Living Root	s (C3)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	DGY rology Indicators: ators (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) tt Deposits (B2) posits (B3) t or Crust (B4)		eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T	1) Living Root (C4)		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) tt Deposits (B2) posits (B3)		eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4)		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
HYDROLC Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio	DGY rology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag	s required: ch	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4)		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
HYDROLC Wetland Hydr Primary Indica Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio	DGY rology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) larks (B1) t Deposits (B2) posits (B3) t or Crust (B4) osits (B5)	s required: ch	eck all that apply) Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7)	) Living Root (C4) Tilled Soils ((		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
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HYDROLC         Wetland Hydr         Primary Indica         Surface         High Wa         Saturatio         Water M         Sedimen         Drift Dep         Algal Mai         Iron Depi         Inundation         Sparsely	DGY rology Indicators: ators (minimum of one is Water (A1) ter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Image v Vegetated Concave Su attions: r Present?	s required: chr gery (B7) urface (B8) Yes No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	) Living Root (C4) Tilled Soils ((		Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
<b>HYDROLC</b> Wetland Hydr         Primary Indica         Surface         High Wa         Saturation         Water M         Sedimen         Drift Dep         Algal Maximum         Iron Depin         Inundation         Sparsely         Field Observation         Water Table F	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial Imag v Vegetated Concave Su attions: r Present?	gery (B7) urface (B8) Yes No Yes No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A N/A	1) Living Root (C4) Filled Soils ((	C6)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Sparsely Field Observa	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag vegetated Concave Su ttions: r Present?	gery (B7) urface (B8) Yes No Yes No	eck all that apply) Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inchest	na (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A N/A	1) Living Root (C4) Filled Soils ((	C6)	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Water Water Table P Saturation Pre (includes capil	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag v Vegetated Concave Su ations: r Present? Present? lary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explain Depth (inchest	ha (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Root (C4) Filled Soils (f	C6) nd Hydrolo	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Water Water Table P Saturation Pre (includes capil	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag v Vegetated Concave Su ations: r Present? Present? lary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ha (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Root (C4) Filled Soils (f	C6) nd Hydrolo	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Water Water Table P Saturation Pre (includes capil	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag v Vegetated Concave Su ations: r Present? Present? lary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ha (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Root (C4) Filled Soils (f	C6) nd Hydrolo	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Water Water Table P Saturation Pre (includes capil	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag v Vegetated Concave Su ations: r Present? Present? lary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	ha (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Root (C4) Filled Soils (f	C6) nd Hydrolo	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
HYDROLC Wetland Hydr Primary Indica Surface V High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observa Surface Water Water Table P Saturation Pre (includes capil Describe Reco	DGY rology Indicators: ttors (minimum of one is Water (A1) tter Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Imag v Vegetated Concave Su ations: r Present? Present? lary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No Jge, monitorir	eck all that apply) Water-Stain Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Explation) Depth (inchestion) Depth (inchestion) Depth (inchestion) March (inchestion) Depth (inchestion) March (inchestion) Depth (inchestion) March (inchestion) March (inchestion) Depth (inchestion) March (	ha (B13) Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Root (C4) Filled Soils (f	C6) nd Hydrolo	Surface Soil Drainage Pa Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic X FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	Sampling Date:	7/25/2018	3
Applicant/Owner:	Wisconisn Dept. of Transportation				: WI	Sampling Point		. 0 DP-74	-	
Investigator(s):	C. Firkus, E. Englund					ip, Range: TWP 3N, I				-
Landform (hillslope,						al relief (concave, cor				
Slope (%):	0-2% Lat:	42.669942		Long:		87.90566		Datum: NAD	83 UTM16	N
	e: EtB - Elliott silty clay loam, 2 to 6 percent slopes						NWI classifica			
	logic conditions on the site typical for this time of y			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology N	significantly dis			al Circumstances" pre	-	Yes X	No	
Are Vegetation	N , Soil N	, or Hydrology N	naturally proble			explain any answers			· ·	
-	FINDINGS Attach site map showing	_ , , ,					,			
	getation Present?	Yes x	No		Sampled Are	2				
Hydric Soil Pres		Yes X	No	-	n a Wetland?	54	Yes x	No		
Vetland Hydrol		Yes x	No	-						
Remarks: WETS analysis det	termined that the antecedent precipitation condition	ns were normal. The feature is a	wet railroad ditch.							
VEGETATION	Use scientific names of plants.									
Tree Stratum (Plot	cize: 20' redius)		Absolute	Dominant	Indicator					
	size: 30 radius)		% Cover	Species?	Status	Dominance Test	vorksheet:			
1 2.					·	Number of Domina	nt Species			
3.			·		· <u> </u>	That Are OBL, FAC		1	(A	4)
4.					·	111017110 002, 1710		· · · ·	(/ ·	9
5.					·	Total Number of Do	ominant			
				= Total Cover	·	Species Across All		1	(B	3)
									`	<i>.</i>
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Dominar	nt Species			
1.						That Are OBL, FAC	W, or FAC:	100%	6 (A	¥/B)
2.										
3.										
4.						Prevalence Index	worksheet:			
5.										
				= Total Cover		Total % C		Mult	iply by:	
						That Are OBL, FAC	W, or FAC:		A/	/B
Herb Stratum (Plot	size: 5' radius)	_				OBL species		x1 =		_
1. Equisetum hyer	male		35%	Yes	FACW	FACW species	35%	x2 =	0.7	
2						FAC species		x3 =		_
3						FACU species		x4 =		
4 5.				·	·	UPL species Column Totals:	0.35	x5 = (A)	0.7	(D)
5 6				· · · · · · · · · · · · · · · · · · ·		Column Totals.	0.35	_(A)	0.7	(B)
7.					· <u> </u>	Provale	nce Index = B/A	\	2.00	
8.			·		· <u> </u>	Tevale	nce muex = D/F			—
9.					·					
10.				·	·	Hydrophytic Vege	tation Indicato	ors:		
11.						, , , , , , , , , , , , , , , , , , , ,				
12.					· <u> </u>	X 1-Rapid T	est for Hydroph	ytic Vegetatior	1	
13.					·		nce Test is >50			
14.						X 3-Prevaler	ice Index is ≤3.	0 <sup>1</sup>		
15.						4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provide s	upporting	
16.						data in Re	emarks or on a	separate shee	t)	
17.						Problema	tic Hydrophytic	Vegetation <sup>1</sup> (E	xplain)	
18.										
19.						<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrology n	nust	
20.						be present, unless	disturbed or pro	oblematic.		
			35%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic				
1						Vegetation				
2						Present?	Yes	XNo	-	
				= Total Cover						
The vegetation is si	photo numbers here or on a separate sheet.) imilar throughout.									

rofile Descr Depth	Matrix		Re	dox Features				
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4"	10YR 2/1	100					Mucky Loam	
4-8"	10YR 2/1	100					Silty Clay Loam	
8-24"	10YR 4/1	85	10YR 5/4	15	С	М	Clay	
0 24	1011(4/1		1011(0)4	10			Oldy	
·							· ·	
<u> </u>								
					· . <u> </u>			
<i>,</i> ,		on, RM=Redu	ced Matrix, CS=Covered	or Coated Sa	nd Grains.		PL=Pore Lining, M=	
	ndicators <sup>3</sup> :		Carada Olar			l est in	dicators of Hydric	
Histosol			Sandy Gleye	ed Matrix (S4)				inese Masses (F12)
	pipedon (A2) istic (A3)		Sandy Redd					w Dark Surface (F22) ain in Remarks)
	en Sulfide (A4)		Dark Surfac	. ,				
	d Layers (A5)			e (37) ky Mineral (F1)	)			
	u Layers (A5) uck (A10)			ed Matrix (F2)				
	d Below Dark Surface (	A11)	X Depleted Ma		,			
	ark Surface (A12)	,		Surface (F6)			<sup>3</sup> The hydric soil in	dicators have been updated to
	/ucky Mineral (S1)			ark Surface (F	7)			e Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)		Redox Depr		- /			States, Version 8.0, 2016.
	ayer (if observed):							
Type: Depth (ir			-			Linealacia C	oil Present?	Yes X No
	greasy.							
e surface is								
e surface is YDROL( 'etland Hyd rimary Indic:	DGY rology Indicators: ators (minimum of one i	s required: ch					Secondary Indica	tors (minimum of two required)
e surface is YDROL( etland Hyd rimary Indic: Surface	DGY rology Indicators: ators (minimum of one Water (A1)	s required: ch	Water-Stain	ed Leaves (BS	9)		Secondary Indica Surface So	il Cracks (B6)
e surface is YDROL( etland Hyd rimary Indic Surface High Wa	DGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2)	s required: ch	Water-Stain Aquatic Fau	na (B13)			Secondary Indica Surface So Drainage P	il Cracks (B6) latterns (B10)
e surface is YDROL( etland Hyd rimary Indic: Surface High Wa Saturati	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3)	s required: ch	Water-Stain Aquatic Fau True Aquatic	na (B13) c Plants (B14)			Secondary Indica Surface So Drainage P Dry-Season	il Cracks (B6) atterns (B10) n Water Table (C2)
e surface is  YDROL( /etland Hyd /rimary Indic: Surface High Wa Saturati Water N	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) <i>I</i> arks (B1)	s required: ch	Water-Stain Aquatic Fau True Aquatic Hydrogen S	na (B13) c Plants (B14) ulfide Odor (C	1)		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu	il Cracks (B6) atterns (B10) n Water Table (C2) ırrows (C8)
Primary Indica Surface High Wa Saturati Water N Sedime	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) /larks (B1) nt Deposits (B2)	s required: ch	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C izospheres on	1) Living Roots	s (C3)	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation	il Cracks (B6) atterns (B10) n Water Table (C2) ırrows (C8) Visible on Aerial Imagery (C9)
e surface is YDROLO fetland Hyd rimary Indica Surface High Wa Saturati Water M Sedime Drift De	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	s required: ch	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron	1) Living Roots n (C4)		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
e surface is  YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift De  X Algal Ma	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	s required: ch	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T	1) Living Roots n (C4)		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation ' Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
e surface is  YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift De X Algal Ma Iron De	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Aarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T aurface (C7)	1) Living Roots n (C4)		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Surface is     YDROL( etland Hyd imary Indic:     Surface     High Wa     Saturati     Water N     Sedime     Drift Deg     Algal Ma     Iron Deg     Inundati	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima	gery (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T uurface (C7) ell Data (D9)	1) Living Roots n (C4) Tilled Soils (C		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation ' Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
e surface is  YDROL( etland Hyd imary Indic Surface High Wa Saturati Water N Sedime Drift Del Algal Ma Iron Deg Inundati Sparsel	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S	gery (B7)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T aurface (C7)	1) Living Roots n (C4) Tilled Soils (C		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation ' Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
YDROLO Yetland Hyd Yetland Hyd Yetland Hyd Yetland Hyd Yetland Hyd Yetland Hyd Saurface High Wa Saturati Water M Sedime Drift Dej X Algal Ma Iron Deg Inundati Sparsel Yetland Hyd	DGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Aarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations:	gery (B7) urface (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T eurface (C7) ell Data (D9) in in Remarks	1) Living Roots n (C4) Tilled Soils (C		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation ' Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
YDROLO Yetland Hyd Yetland Hyd Yetland Hyd Yetland Hyd Yetland Hyd Yetland Hyd Saurface High Wa Saturati Water M Sedime Drift Dej X Algal Ma Iron Dej Inundati Sparsel Yetlace Water	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: pr Present?	gery (B7) urface (B8) Yes No	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T ourface (C7) ell Data (D9) in in Remarks s): <u>N/A</u>	1) Living Roots n (C4) Tilled Soils (C		Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation ' Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water M Sedime Drift Deg Algal Ma Iron Deg Inundati Sparsel eld Observ urface Wate face Table	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present?	gery (B7) urface (B8) Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T surface (C7) ell Data (D9) in in Remarks s): N/A N/A	(1) Living Roots n (C4) Tilled Soils (C s)	56)	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
e surface is  YDROL( etland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift Deg Algal Ma Iron Deg Inundati Sparsel eld Observ urface Wate aturation Pri	DGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present?	gery (B7) urface (B8) Yes No Yes No	Water-Stain Aquatic Fau True Aquatic Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T surface (C7) ell Data (D9) in in Remarks s): N/A N/A	(1) Living Roots n (C4) Tilled Soils (C s)	56)	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation ' Stunted or X Geomorphi	il Cracks (B6) ratterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
e surface is	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present? esent? illary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     )     )     X     )     X     )     X     )     X     )     )	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Roots n (C4) Tilled Soils (C s) Wetlan	d Hydrolog	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
e surface is	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present? esent? illary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Roots n (C4) Tilled Soils (C s) Wetlan	d Hydrolog	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
e surface is  YDROL(  Ietland Hyd rimary Indic: Surface High Wa Saturati Water N Sedime Drift De X Algal Ma Iron De Inundati Sparsel Inundati Ivater Table aturation Pri ncludes cap	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present? esent? illary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     )     )     X     )     X     )     X     )     X     )     )	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Roots n (C4) Tilled Soils (C s) Wetlan	d Hydrolog	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
e surface is  YDROL(  Tetland Hyd  rimary Indic: Surface High Wa Saturati Water N Sedime Drift Del X Algal Ma Iron Deg Inundati Sparsel eld Observ urface Wate /ater Table aturation Pri ncludes cap Describe Rec	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: er Present? Present? esent? illary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     )     )     X     )     X     )     X     )     X     )     )	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Roots n (C4) Tilled Soils (C s) Wetlan	d Hydrolog	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
e surface is  YDROL( etland Hyd imary Indic: Surface High Wa Saturati Water N Sedime Drift Del Algal Ma Iron Deg Inundati Sparsel etd Observ urface Wate Yater Table aturation Pri ncludes cap escribe Rec emarks:	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: ar Present? Present? esent? illary fringe) corded Data (stream ga	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     )     )     X     )     X     )     X     )     X     )     )	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Roots n (C4) Tilled Soils (C s) Wetlan	d Hydrolog	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)
e surface is	DGY rology Indicators: ators (minimum of one i Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Ima y Vegetated Concave S ations: ar Present? Present? esent? illary fringe) corded Data (stream ga	gery (B7) urface (B8) Yes No Yes No Yes No	Water-Stain     Aquatic Fau     True Aquatic     Hydrogen S     Oxidized Rh     Presence of     Recent Iron     Thin Muck S     Gauge or W     Other (Explain     X     Depth (inchest     X     )     )     X     )     X     )     X     )     X     )     )	na (B13) Plants (B14) ulfide Odor (C izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks s): N/A s): N/A	1) Living Roots n (C4) Tilled Soils (C s) Wetlan	d Hydrolog	Secondary Indica Surface So Drainage P Dry-Season Crayfish Bu Saturation Stunted or X Geomorphi X FAC-Neutra	il Cracks (B6) atterns (B10) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) al Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road			(	City/County	: Racine County		s	ampling Date	e: 7/25/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation				State		Sampling Point		DP-1		
Investigator(s):	C. Firkus, E. Englund						p, Range: TWP 3N,				
Landform (hillslope							al relief (concave, cor				
Slope (%):	0-2% Lat:	42.669951		10	ng:		37.905822	100x, 110110). 001		AD83 UTM16	6N
	e: EtB - Elliott silty clay loam, 2 to 6 percent slop			10			1.500022	NWI classifica		/E2K	
	blogic conditions on the site typical for this time of				Voc	X No	(If no, explain	-		LZI	
			NI							( N-	
Are Vegetation	N , Soil N	, or Hydrology		ly disturbed			al Circumstances" pre		Yes X	<u> </u>	
Are Vegetation	N, Soil N	, or Hydrology		problematic?			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map showin	g sampling point lo	cations, transects,	importa	nt feature	es, etc.					
, , ,	getation Present?	Yes x	No			Sampled Are	ea				
Hydric Soil Pres		Yes	No <u>x</u>		withir	n a Wetland?		Yes	No	Х	
Wetland Hydrol	logy Present?	Yes	No <u>x</u>								
Remarks: WETS analysis det	termined that the antecedent precipitation conditi	ons were normal. The poin	t is on a rise between a	wet forest a	nd a railroa	ad ditch.					
VEGETATION	- Use scientific names of plants.										
T 0			Abso		Dominant	Indicator					
Tree Stratum (Plot	t size: 30' radius)		% Co	iver S	Species?	Status	Dominance Test	worksheet:			
1			·			·					
2							Number of Domina	-			
3							That Are OBL, FAC	CW, or FAC:	3	. (/	A)
4											
5			·				Total Number of De				
				= Tot	tal Cover		Species Across All	Strata:	3	. (	B)
Sapling/Shrub Stra	tum (Plot size: 15' radius)						Percent of Domina				
1. Salix interior			259		Yes	FACW	That Are OBL, FAC	CW, or FAC:	100	)% (	A/B)
2. Robinia pseudo	oacacia		5%	, D	No	FACU					
3.											
4.							Prevalence Index	worksheet:			
5.											
			309	% = Tot	tal Cover		Total % C		Mu	ultiply by:	
							That Are OBL, FAC	W, or FAC:		A	¥В
Herb Stratum (Plot							OBL species		x1 =		
1. Phalaris arundi	inacea		259		Yes	FACW	FACW species	85%	x2 =	1.7	
2. Vitis riparia			259		Yes	FACW	FAC species	10%	x3 =	0.3	
3. Asclepias syria			5%		No	FACU	FACU species	25%	x4 =	1	
4. Lactuca biennis			5%		No	FAC	UPL species		x5 =		
5. Solanum ptych			5%		No	FACU	Column Totals:	1.20	(A)	3	(B)
6. Solidago canad			5%		No	FACU					
7. Cirsium arvens			5%		No	FACU	Prevale	nce Index = B/A	. =	2.50	
8. Geum aleppicu			5%		No	FACW					
9. Impatiens cape			5%		No	FACW					
10. Rhamnus catha	artica		5%		No	FAC	Hydrophytic Vege	etation Indicato	vrs:		
11			·								
12								est for Hydroph		on	
13			·					nce Test is >50			
14								nce Index is ≤3.			
15.								ogical Adaptatio			
16.								emarks or on a			
17							Problema	tic Hydrophytic	Vegetation'	(Explain)	
18											
19							<sup>1</sup> Indicators of hydri	c soil and wetlar	nd hydrology	must	
20.						<u> </u>	be present, unless	disturbed or pro	oblematic.		
			909	% = Tot	tal Cover		-				
Woody Vine Stratu	m (Plot size: 30' radius)						Hydrophytic				
1							Vegetation				
2.							Present?	Yes	KNo	_	
				= Tot	tal Cover						
-	photo numbers here or on a separate sheet.)										
The vegetation is d	lense and weedy.										

Profile Descr	iption: (Describe to th	e depth neede	d to document the ind	dicator or cor	firm the ab	sence of in	ndicators.)	
Depth	Matrix		Re	edox Features			_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20"	10YR 2/1	100					Clay Loam	
20-24"	10YR 5/4	95	10YR 6/6	5	С	М	Clay	
· · · · ·								
<sup>1</sup> Type: C=Co	oncentration, D=Depletio	on. RM=Reduce	ed Matrix. CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil Ir		,	, ,				dicators of Hydric	
Histosol	(A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	anese Masses (F12)
Histic E	pipedon (A2)		Sandy Redo	ox (S5)			Very Shallo	w Dark Surface (F22)
Black H	istic (A3)		Stripped Ma	ıtrix (S6)			Other (Exp	lain in Remarks)
	en Sulfide (A4)		Dark Surfac					
	d Layers (A5)			ky Mineral (F1)				
	uck (A10)			red Matrix (F2)				
	d Below Dark Surface (/ ark Surface (A12)	411)	Depleted Ma	Surface (F6)			<sup>3</sup> The bydrie coil in	dicators have been updated to
	lucky Mineral (S1)			ark Surface (F6)	7)		-	e Field Indicators of Hydric Soils
	ucky Peat or Peat (S3)			essions (F8)	,			States, Version 8.0, 2016.
	ayer (if observed):							
Type: Depth (ir	iches).					Hydric S	Soil Present?	Yes No X
Remarks:						,		
HYDROLO								
-	rology Indicators:							
	ators (minimum of one is Water (A1)	s requirea: chec		ed Leaves (BS	2)			tors (minimum of two required) il Cracks (B6)
	ater Table (A2)		Aquatic Fau		<i>)</i> )			Patterns (B10)
Saturati				c Plants (B14)				n Water Table (C2)
	larks (B1)			ulfide Odor (C	1)		Crayfish Bu	
	nt Deposits (B2)			izospheres on		s (C3)		Visible on Aerial Imagery (C9)
Drift De	oosits (B3)		Presence of	Reduced Iron	(C4)		Stunted or	Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iron	Reduction in T	Filled Soils (C	6)	Geomorph	ic Position (D2)
Iron Dep	oosits (B5)		Thin Muck S	Surface (C7)			FAC-Neutra	al Test (D5)
	on Visible on Aerial Imag			ell Data (D9)				
Sparsely	Vegetated Concave S	urface (B8)	Other (Expla	ain in Remarks	5)			
Field Observa	ations:							
Surface Wate	er Present?	Yes No	X Depth (inches	s): N/A				
Water Table		Yes No	X Depth (inches	s): N/A				
Saturation Pro		Yes No	X Depth (inches	s): N/A	Wetlan	d Hydrolog	gy Present?	Yes NoX
(includes capi			well eariel shotes are		(if overlied	blar		
Describe Rec	orded Data (stream ga	uge, monitoring	weii, aenai priotos, pre	vious inspectio	ns), ii availa	Die.		
Remarks:								
No wetland hy	drology was observed.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		s	Sampling Date: 7/2	25/2018
Applicant/Owner:	Wisconisn Dept. of Transportation			State	-	Sampling Point		DP-76	
Investigator(s):	C. Firkus, E. Englund					p, Range: TWP 3N,			
Landform (hillslope,						al relief (concave, cor			
Slope (%):	0-2% Lat:	42.669924		Long:		37.906097		Datum: NAD83	UTM16N
	e: EtB - Elliott silty clay loam, 2 to 6 percent slopes						NWI classifica		
-	logic conditions on the site typical for this time of y			Yes	X No	(If no, explain i	-		
Are Vegetation	N , Soil N		N significantly dist	-		al Circumstances" pre		Yes X No	
Are Vegetation	N , Soil N		N naturally problem			explain any answers			·
	FINDINGS Attach site map showing						in Remarks.)		
Hydropnytic Veo Hydric Soil Pres	getation Present?	Yes <u>x</u> Yes x	No No		Sampled Are a Wetland?	a	Voc v	No	
Wetland Hydrold		Yes X	No	within			Yes <u>x</u>	No	-
Remarks: WETS analysis det	ermined that the antecedent precipitation condition	ns were normal. The feature is	s a small depressional fore	est.					
VEGETATION	Use scientific names of plants.								
Tree Stratum (Plot	cize: 20' rediue)		Absolute	Dominant	Indicator				
			% Cover	Species?	Status	Dominance Test	worksheet:		
1. Acer saccharing	um		85%	Yes	FACW				
2. Salix nigra			10%	No	OBL	Number of Dominal		0	(4)
3					·	That Are OBL, FAC	W, OF FAC.	2	(A)
4						Total Number of Dr	minont		
5			95%	= Total Cover		Total Number of Do Species Across All		2	(B)
			9376			Species Across Air	Silaia.	2	(B)
Sanling/Shrub Strat	tum (Plot size: 15' radius)				<u> </u>	Percent of Dominar	ot Species		
1. Acer saccharin			15%	Yes	FACW	That Are OBL, FAC		100%	(A/B)
2.	um		1070	105		mar ne obe, i ne	, or 1710.	10070	(//D)
3.									
4.						Prevalence Index	worksheet:		
5.					·				
•			15%	= Total Cover		Total % C	over of:	Multiply	v bv:
						That Are OBL, FAC			A/B
Herb Stratum (Plot	size: 5' radius)					OBL species	10%	x1 = 0	0.1
1.		_				FACW species	100%	x2 =	2
2.					·	FAC species		x3 =	
3.					·	FACU species		x4 =	
4.					·	UPL species		x5 =	
5.					·	Column Totals:	1.10	(A) 2	2.1 (B)
6.					·				
7.						Prevale	nce Index = B/A	A = 1.91	
8.									
9.									
10.						Hydrophytic Vege	tation Indicato	ors:	
11.									
12.						X 1-Rapid T	est for Hydroph	ytic Vegetation	
13.						X 2-Dominar	nce Test is >50°	%	
14.							ice Index is ≤3.		
15.						4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provide supp	porting
16.								separate sheet)	
17						Problema	tic Hydrophytic	Vegetation <sup>1</sup> (Expla	ain)
18									
19						<sup>1</sup> Indicators of hydric	soil and wetlar	nd hydrology must	t
20						be present, unless	disturbed or pro	oblematic.	
				= Total Cover		-			
Woody Vine Stratur	m (Plot size: 30' radius)					Hydrophytic			
1						Vegetation			
2						Present?	Yes	X No	
				= Total Cover					
	photo numbers here or on a separate sheet.) /er is sparse throughout.								

Depth (inches) 0-16" 16-24"	Matrix		Pod	ox Features	firm the ab			
0-16"	Color (moist)	% C	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks
	10YR 2/1	98	10YR 3/6	2	C	M		Remains
<u>    16-24                                    </u>							Clay Loam	
	10YR 4/2	95	10YR 4/4	3	<u> </u>	<u> </u>	Clay	
			10YR 5/6	2	С	M	Clay	
							<u> </u>	
71	entration, D=Depletion,	RM=Reduced Ma	atrix, CS=Covered or	r Coated San	d Grains.		PL=Pore Lining, M=M	
Hydric Soil Indic						Test In	dicators of Hydric So	
Histosol (A1		-	Sandy Gleyed					ese Masses (F12)
Histic Epipe		-	Sandy Redox					Dark Surface (F22)
Black Histic Hydrogen S	· /	-	Stripped Matri Dark Surface				Other (Explain	nin Remarks)
Stratified La		-	Loamy Mucky	· · /				
2 cm Muck		-	Loamy Gleyed					
	elow Dark Surface (A1	1)	Depleted Mati	. ,				
X Thick Dark	,	·/	X Redox Dark S				<sup>3</sup> The hydric soil indic	cators have been updated to
	ky Mineral (S1)	-	Depleted Dark		<i>'</i> )		-	Field Indicators of Hydric Soils
	Peat or Peat (S3)	-	Redox Depres	-	,			ates, Version 8.0, 2016.
Restrictive Laye	r (if observed):	-						
Type:	r (il observed).							
Depth (inche	<i>vc).</i>					Hydric S	oil Present?	Yes X No
Wetland Hydrold	s (minimum of one is re	auired: check all	that apply)				Secondary Indicator	rs (minimum of two required)
Surface Wa		equired. Check all	X Water-Stained	1 Leaves (B9)	)		Surface Soil C	
High Water		-	Aquatic Fauna		/		Drainage Pati	
Saturation (		-	True Aquatic F					Vater Table (C2)
Water Mark		-	Hydrogen Sult	. ,	)		Crayfish Burro	
	eposits (B2)	-	Oxidized Rhize	-	-	s (C3)		sible on Aerial Imagery (C9)
Drift Deposi		-	Presence of R			· · ·		ressed Plants (D1)
Algal Mat or	r Crust (B4)	-	Recent Iron R	eduction in Ti	illed Soils (C	26)	X Geomorphic F	Position (D2)
Iron Deposit	ts (B5)	-	Thin Muck Su	rface (C7)			X FAC-Neutral	Test (D5)
Inundation \	/isible on Aerial Imager	ry (B7)	Gauge or Wel	ll Data (D9)				
	egetated Concave Surf	ace (B8)	Other (Explain	n in Remarks)	)			
X Sparsely Ve	ons:							
	resent? Ye	es <u>No X</u>	Depth (inches):	N/A				
Field Observatio	aant2 Va	es No X	Depth (inches):	N/A				
Field Observatio	sent? re	NIA V	Depth (inches):	N/A	Wetlan	d Hydrolog	y Present?	Yes <u>X</u> No
Field Observatio Surface Water Pr Water Table Pres		es <u>No X</u>						
Field Observatio Surface Water Pr Water Table Pres Saturation Preser (includes capillar)	nt? Ye y fringe)							
Field Observatio Surface Water Pr Water Table Pres Saturation Preser (includes capillar)	nt? Ye		aerial photos, previo	ous inspectior	ns), if availa	ble:		
Field Observatio Surface Water Pr Water Table Prese Saturation Preser (includes capillary Describe Record	nt? Ye y fringe)		aerial photos, previo	ous inspectior	ns), if availa	ble:		
Field Observatio Surface Water Pr Water Table Prese Saturation Preser (includes capillary Describe Record Remarks:	nt? Ye y fringe) led Data (stream gauge	e, monitoring well,		ous inspectior	ns), if availa	ble:		
Field Observatio Surface Water Pr Water Table Prese Saturation Preser (includes capillary Describe Record Remarks:	nt? Ye y fringe)	e, monitoring well,		ous inspectior	ns), if availa	ble:		

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		S	ampling Date: 7/25/	2018
Applicant/Owner:	Wisconisn Dept. of Transportation			State	: WI	Sampling Point		DP-77	
Investigator(s):	C. Firkus, E. Englund				Section, Townshi	p, Range: TWP 3N,	RNG 22E, SEC	33	
Landform (hillslope,	e, terrace, etc.): Toeslope				Loc	al relief (concave, co	nvex, none): cor	ivex	
Slope (%):	0-2% Lat:	42.669597		Long:	-	87.90755		Datum: NAD83 UT	M16N
Soil Map Unit Name	e: VaB - Varna silt loam, 2 to 6 percent slopes						NWI classifica	ation: None	
Are climatic / hydro	plogic conditions on the site typical for this time of	year?		Yes	X No	(If no, explain	in Remarks.)		
Are Vegetation	N, Soil N	, or Hydrology	significantly distu	urbed?	Are "Norma	al Circumstances" pre	esent?	Yes X No	
Are Vegetation	N, Soil N	, or Hydrology	naturally problem	natic?	(If needed,	explain any answers	in Remarks.)		
SUMMARY OF	FINDINGS Attach site map showing	g sampling point location	ons, transects, impo	ortant feature	es, etc.				
Hydrophytic Ve	getation Present?	Yes x	No	Is the	Sampled Are	ea			
Hydric Soil Pres		Yes X	No	withir	n a Wetland?		Yes x	No	
Wetland Hydrol	.ogy Present?	Yes <u>x</u>	No						
Remarks: WETS analysis det	termined that the antecedent precipitation condition	ons were normal. The feature is	a seasonally flooded bas	in in a soybean f	field.				
VEGETATION	Use scientific names of plants.					1			
Tasa Otastura (Dist			Absolute	Dominant	Indicator				
Tree Stratum (Plot	size: 30 radius)		% Cover	Species?	Status	Dominance Test	worksheet:		
1 2.						Number of Domina	nt Spacios		
3.						That Are OBL, FAG		1	(A)
4.						matrice ODE, 174	<i>y</i> , 0117(0.		
5.						Total Number of D	ominant		
				= Total Cover		Species Across Al		2	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)					Percent of Domina	nt Species		
1.						That Are OBL, FAG	CW, or FAC:	50%	(A/B)
2.									
3.									
4						Prevalence Index	worksheet:		
5.									
				= Total Cover		Total % C That Are OBL, FAC		Multiply by	A/B
Herb Stratum (Plot	t size: 5' radius)					OBL species	20%	x1 = 0.2	
1. Persicaria hydr		—	20%	Yes	OBL	FACW species	2078	x1 = 0.2	
2. Glycine max			15%	Yes	UPL	FAC species		x3 =	
3.						FACU species		x4 =	
4.						UPL species	15%	x5 = 0.75	5
5.						Column Totals:	0.35	(A) 0.95	5 (B)
6.									
7						Prevale	nce Index = B/A	.= 2.71	
8.									
9									
10						Hydrophytic Vege	etation Indicato	ors:	
11									
12.							est for Hydrophy	-	
13							nce Test is >50% nce Index is ≤3.0		
14 15.								ons <sup>1</sup> (Provide suppor	tina
16.						·	emarks or on a		
17.								Vegetation <sup>1</sup> (Explain	)
18.						<u> </u>			
19.						<sup>1</sup> Indicators of hydri	c soil and wetlar	nd hydrology must	
20.						be present, unless	disturbed or pro	blematic.	
			35%	= Total Cover					
Woody Vine Stratu	m (Plot size: 30' radius)					Hydrophytic			
1.						Vegetation			
2.						Present?	Yes >	<u>No</u>	
				= Total Cover					
Remarks: (Include The crop is stunted	e photo numbers here or on a separate sheet.) 1.								

epth	iption: (Describe to th Matrix			dox Features				
nches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-22"	10YR 2/1	100		70	Турс			Kemaks
				·			Clay Loam	
22-30"	7.5YR 5/2	70	7.5YR 5/6	30	С	M	Clay	
·								
·								
Type: C=Co	oncentration, D=Depletic	on, RM=Redu	ced Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix.
ydric Soil In	ndicators <sup>3</sup> :					Test In	ndicators of Hydric S	Soils:
Histosol	l (A1)		Sandy Gleye					nese Masses (F12)
Histic Er	pipedon (A2)		Sandy Redo	k (S5)			Very Shallov	v Dark Surface (F22)
	istic (A3)		Stripped Mat				Other (Expla	ain in Remarks)
	en Sulfide (A4)		Dark Surface					
	d Layers (A5)			y Mineral (F1)				
	uck (A10)			ed Matrix (F2)				
	d Below Dark Surface (A	411)	Depleted Ma				3 <b></b>	Kantana kana kana sa da sa sa
	ark Surface (A12)		Redox Dark		7)		-	licators have been updated to
`	Mucky Mineral (S1) ucky Peat or Peat (S3)		Redox Depre	rk Surface (Fi	()			e Field Indicators of Hydric Soils tates, Version 8.0, 2016.
				5510115 (FO)			In the Onited S	
	ayer (if observed):							
Туре:			-					
Depth (ir	nches):		-			Hydric S	Soil Present?	Yes <u>X</u> No
		eu layer bene	ath a dark surface.					
YDROLO			ath a dark surface.					
etland Hyd	rology Indicators:							
<b>/etland Hyd</b> rimary Indica	rology Indicators: ators (minimum of one is		eck all that apply)	d Leaves (BS	2)			ors (minimum of two required)
rimary Indica Surface	<b>rology Indicators:</b> ators (minimum of one is Water (A1)		eck all that apply) Water-Staine	ed Leaves (BS	9)		X Surface Soil	Cracks (B6)
rimary Indica Surface High Wa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2)		eck all that apply) Water-Staine Aquatic Faur	a (B13)	9)		X Surface Soil Drainage Pa	Cracks (B6) atterns (B10)
rimary Indica Surface High Wa Saturatio	<b>rology Indicators:</b> ators (minimum of one is Water (A1) ater Table (A2) on (A3)		eck all that apply) Water-Staine Aquatic Faur True Aquatic	a (B13) Plants (B14)			X Surface Soil Drainage Pa Dry-Season	Cracks (B6) atterns (B10) Water Table (C2)
rimary Indica Surface High Wa Saturatio Water M	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St	a (B13) Plants (B14) Ilfide Odor (C	1)	s (C3)	X Surface Soil Drainage Pa Dry-Season Crayfish Bui	Cracks (B6) htterns (B10) Water Table (C2) rrows (C8)
rimary Indica Surface High Wa Saturatie Water M Sedime	<b>rology Indicators:</b> ators (minimum of one is Water (A1) ater Table (A2) on (A3)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi	a (B13) Plants (B14)	1) Living Root	s (C3)	X Surface Soil Drainage Pa Dry-Season Crayfish Bui X Saturation V	Cracks (B6) atterns (B10) Water Table (C2)
etland Hyd rimary Indica Surface High Wa Saturatie Water M Sedimer Drift Dep	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	a (B13) Plants (B14) Iffide Odor (C zospheres on Reduced Iron	1) Living Root (C4)	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) isible on Aerial Imagery (C9)
Vetland Hyd Irimary Indica Surface High Wa Saturatii Water M Sedimei Drift Dej Algal Ma	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>M</i> arks (B1) nt Deposits (B2)		eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T	1) Living Root (C4)	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd rimary Indica Surface High Wa Saturatiu Water M Sedimen Drift Dep Algal Ma Iron Dep	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	a required: ch	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7)	1) Living Root (C4)	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd rimary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	s required: ch	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron I Thin Muck St Gauge or W	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7)	) Living Root (C4) Tilled Soils ((	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd Irimary Indica Surface High Wa Saturatii Water M Sedimer Drift Der Algal Ma Iron Der Inundatii Sparsel	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) <i>M</i> arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su	s required: ch	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron I Thin Muck St Gauge or W	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9)	) Living Root (C4) Tilled Soils ((	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd rimary Indica Surface High Wa Saturatiu Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatiu Sparsely	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations:	s required: chr gery (B7) urface (B8)	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or Wa Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	) Living Root (C4) Tilled Soils ((	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd rimary Indica Surface High Wa Saturatie Water M Sedimen Drift Den Algal Ma Iron Dep Inundatie Sparsely eld Observa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present?	s required: chr gery (B7) urface (B8) Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or Wa Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks	) Living Root (C4) Tilled Soils ((	( )	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd rimary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie Sparsely Inde Observa	rology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su ations: er Present? Present?	s required: chr gery (B7) urface (B8) Yes No Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron I Thin Muck St Gauge or W Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Vetland Hyd Irimary Indica Surface High Wa Saturatie Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatie	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present?	s required: chr gery (B7) urface (B8) Yes No Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck S Gauge or Wa Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish Bur X Saturation V X Stunted or S X Geomorphic	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2)
Vetland Hyd Irimary Indica Surface High Wa Saturatii Water M Sedimer Drift Der Algal Ma Iron Der Inundatii Sparsely ield Observa vater Table I vater Table I saturation Pre ncludes capi	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron I Thin Muck St Gauge or W Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Vetland Hyd Irimary Indica Surface High Wa Saturatii Water M Sedimer Drift Der Algal Ma Iron Der Inundatii Sparsely ield Observa vater Table I vater Table I saturation Pre ncludes capi	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or Wi Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Vetland Hyd Irimary Indica Surface High Wa Saturatii Water M Sedimer Drift Der Algal Ma Iron Der Inundatii Sparsely ield Observa vater Table I vater Table I saturation Pre ncludes capi	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or Wi Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Vetland Hyd Irimary Indica Surface High Wa Saturatii Water M Sedimer Drift Der Algal Ma Iron Der Inundatii Sparsely ield Observa vater Table I vater Table I saturation Pre ncludes capi	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	s required: chr gery (B7) urface (B8) Yes No Yes No Yes No Yes No	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or Wi Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Vetland Hyd rrimary Indica Surface High Wa Saturatie Water M Sedimen Drift Den Algal Ma Iron Den Inundatie Sparsely Vater Table I aturation Pre ncludes capi Describe Rec	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Image y Vegetated Concave Su ations: er Present? Present? esent? illary fringe)	gery (B7) urface (B8) Yes No Yes No Yes No Jge, monitorir	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or Wi Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rrows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)
Vetland Hyd rrimary Indica Surface High Wa Saturatie Water M Sedimen Drift Den Algal Ma Iron Den Inundatie Sparsely Vater Table I aturation Pre ncludes capi Describe Rec	Irology Indicators: ators (minimum of one is Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Imag y Vegetated Concave Su ations: er Present? Present? esent? illary fringe) corded Data (stream gau	gery (B7) urface (B8) Yes No Yes No Yes No Jge, monitorir	eck all that apply) Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron I Thin Muck Si Gauge or Wi Other (Expla	a (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) in in Remarks ): <u>N/A</u> ): <u>N/A</u>	1) Living Root (C4) Filled Soils ((	C6)	X Surface Soil Drainage Pa Dry-Season Crayfish But X Saturation V X Stunted or S X Geomorphic FAC-Neutra	Cracks (B6) atterns (B10) Water Table (C2) rows (C8) fisible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) I Test (D5)

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County	: Racine County		s	ampling Date	e: 7/25/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation				State		Sampling Poin		DP-1	-	
Investigator(s):	C. Firkus, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, co				
Slope (%):	3% Lat:	42.669656			Long:		37.907644			D83 UTM1	6N
	e: VaB - Varna silt loam, 2 to 6 percent slopes							NWI classifica			
	logic conditions on the site typical for this time of y	ear?			Yes	X No	(If no, explain	-	<u> </u>		
Are Vegetation	N , Soil N	, or Hydrology N	l signific:	antly distu			al Circumstances" pro		Yes X	( No	
Are Vegetation	N , Soil N	, or Hydrology N		y problem			explain any answers		103		
	FINDINGS Attach site map showing						explain any answers	III IXemarka.)			
Hydropnytic Veg	getation Present?	Yes Yes		x x		Sampled Are	ea	Yes	No	~	
Wetland Hydrold		Yes		X	within			165		<u>^</u>	
		100		X							
Remarks: WETS analysis dete	ermined that the antecedent precipitation condition	is were normal. The point is in	a soybean field.								
VEGETATION -	Use scientific names of plants.						T				
Trop Stratum (Plat	cizo: 20' rodiuc)			solute	Dominant	Indicator					
Tree Stratum (Plot	size: 30 radius)		%	Cover	Species?	Status	Dominance Test	worksheet:			
1							Number of Demis	-+ 0			
2. 3.							Number of Domina				(A)
							That Are OBL, FA	JW, OF FAC.	0	(	(A)
4							Tatal Number of D	! 4			
5					= Total Cover		Total Number of D		1		(D)
					= Total Cover		Species Across Al	i Strata.		(	(B)
Sanling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Domina	nt Species			
1.							That Are OBL, FA		0%	× (	(A/B)
2.							That Are OBL, FA	SW, OFFAC.		<u> </u>	,A(D)
3.											
4.							Prevalence Index	workshoot			
4 5.							Frevalence index	WOIKSHEEL.			
5.					= Total Cover		Total % C	over of	M.	ultiply by:	
							That Are OBL, FAC			ultiply by:	A/B
Herb Stratum (Plot	size: 5' radius)						OBL species	,	x1 =		<u> </u>
1. Glycine max		_	4	15%	Yes	UPL	FACW species		x2 =		
2.							FAC species		x3 =		
3.							FACU species		x4 =		
4.							UPL species	45%	x5 =	2.25	—
5.							Column Totals:	0.45	(A)	2.25	(B)
6.									_`		
7.							Prevale	ence Index = B/A	-	5.00	
8.											
9.											
10.							Hydrophytic Veg	etation Indicato	ors:		
11.											
12.							1-Rapid T	est for Hydroph	tic Vegetatio	on	
13.								nce Test is >50			
14.							3-Prevale	nce Index is ≤3.	D <sup>1</sup>		
15.							4-Morpho	logical Adaptatio	ons <sup>1</sup> (Provide	supporting	J
16.							data in R	emarks or on a	separate she	eet)	
17.							Problema	tic Hydrophytic	Vegetation <sup>1</sup>	(Explain)	
18.											
19.							<sup>1</sup> Indicators of hydri	c soil and wetlar	nd hydrology	must	
20.							be present, unless	disturbed or pro	blematic.		
			4	15%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.							Present?	Yes	No X	(	
					= Total Cover					_	
Remarks: (Include The crop is healthy.	photo numbers here or on a separate sheet.)										

Profile Desc	ription: (Describe to the	edepth needed	to document the ind	licator or cor	firm the ab	sence of in	dicators.)		
Depth	Matrix			edox Features	1		-		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-18"	10YR 2/1	100					Loam		
18-24"	10YR 4/2	90	10YR 4/3	10	С	М	Clay Loam		
					-				
<sup>1</sup> Type: C=C	Concentration, D=Depletion	n. RM=Reduced	d Matrix, CS=Covered	or Coated Sar	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.	
Hydric Soil I	, ,	.,					dicators of Hydric \$		
Histoso			Sandy Gleye	ed Matrix (S4)			Iron-Manga	inese Masses (F12)	
Histic E	Epipedon (A2)		Sandy Redo	vx (S5)			Very Shallo	w Dark Surface (F22)	
Black H	Histic (A3)		Stripped Mat	trix (S6)			Other (Expl	ain in Remarks)	
	jen Sulfide (A4)		Dark Surface	( )					
	ed Layers (A5)			ky Mineral (F1)	-				
	luck (A10)			red Matrix (F2)					
	ed Below Dark Surface (A	11)	Depleted Ma				3	·····	· •.
	Dark Surface (A12)			Surface (F6)			-	dicators have been upo	
	Mucky Mineral (S1) lucky Peat or Peat (S3)		Depleted Da Redox Depre	ark Surface (F7	7)			e Field Indicators of H	-
				ESSIONS (FO)			In the Onited S	States, Version 8.0, 20	/16.
	_ayer (if observed):								
Type:	1 X					Usadaia C	1 D	Y	
Depth (i	nches):					Hyaric S	Soil Present?	Yes	<u>No X</u>
HYDROL									
-	drology Indicators:						1		
-	cators (minimum of one is	required: check			~			tors (minimum of two r	equired)
	e Water (A1)			ed Leaves (B9	<del>)</del> )			il Cracks (B6)	
	(ater Table (A2)		Aquatic Faur					atterns (B10)	
	tion (A3) Marks (B1)			c Plants (B14) ulfide Odor (C <sup>2</sup>	1)		Dry-Seasor Crayfish Bu	n Water Table (C2)	
	ent Deposits (B2)			izospheres on	,	e (C3)		Visible on Aerial Image	any (C9)
	eposits (B3)			Reduced Iron	-	3 (00)		Stressed Plants (D1)	iy (83)
	lat or Crust (B4)			Reduction in T		26)		c Position (D2)	
	eposits (B5)		Thin Muck S			,	FAC-Neutra		
Inundat	tion Visible on Aerial Image	ery (B7)	Gauge or W	ell Data (D9)					
	ly Vegetated Concave Su		Other (Expla	ain in Remarks	;)				
Field Observ	vations:				1				
Surface Wate		Yes No X	X Depth (inches	s): N/A					
Water Table		Yes No 2							
Saturation Pr		Yes No 2	· ·	·	Wetlan	ıd Hydroloç	gy Present?	Yes	No X
(includes cap						-			·
Describe Re	corded Data (stream gaug	ge, monitoring v	vell, aerial photos, prev	vious inspectio	ons), if availa	ble:			
ļ									
Remarks:									
No wetiand ny	ydrology was observed.								

Project/Site:	CTH KR, CTH H to Old Green Bay Road				City/County	Racine County		s	ampling Date	ə: 7/25/201	8
Applicant/Owner:	Wisconisn Dept. of Transportation				State		Sampling Point		. 0 DP-7		
Investigator(s):	C. Firkus, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,							al relief (concave, cor				
Slope (%):	0-2% Lat:	42.669984			Long:		37.907474	1000, 110110). 001		D83 UTM16	6N
	e: AtA - Ashkum silty clay loam, 0 to 2 percent s				Long.			NWI classifica			
	logic conditions on the site typical for this time of				Voc	X No	(If no, explain	-	11011. 110	10	
			NI		Yes_					( N-	
Are Vegetation	N, Soil N	, or Hydrology		ntly disturl			al Circumstances" pre		Yes X	(No	
Are Vegetation	N, Soil N	, or Hydrology		problema			explain any answers	in Remarks.)			
	FINDINGS Attach site map showing	ng sampling point lo	cations, transect	s, impor							
	getation Present?	Yes		x		Sampled Are	ea				
Hydric Soil Pres		Yes <u>x</u>	No		withir	a Wetland?		Yes	No	Х	
Wetland Hydrole	ogy Present?	Yes <u>x</u>	No								
Remarks: WETS analysis det	termined that the antecedent precipitation condit	ions were normal. The feat	ure is a seasonally floo	ded basin	in a soybean f	ield.					
VEGETATION	Use scientific names of plants.										
			Abs	olute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		% (	over	Species?	Status	Dominance Test	vorksheet:			
1											
2.							Number of Domina	nt Species			
3.							That Are OBL, FAC	W, or FAC:	1	(	A)
4.											
5.							Total Number of Do	ominant			
				=	Total Cover		Species Across All	Strata:	2	(1	B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Domina	nt Species			
1							That Are OBL, FAC	W, or FAC:	50	% (	A/B)
2.											
3.											
4.							Prevalence Index	worksheet:			
5.											
				=	Total Cover		Total % C	over of:	Mu	ultiply by:	
							That Are OBL, FAC	W, or FAC:		A	¥В
Herb Stratum (Plot	size: 5' radius)						OBL species	15%	x1 =	0.15	
1. Persicaria hydr	opiperoides		1	5%	Yes	OBL	FACW species		x2 =		
2. Glycine max			1	5%	Yes	UPL	FAC species		x3 =		
3. Portulaca olera	сеа			%	No	FACU	FACU species	5%	x4 =	0.2	
4.							UPL species	15%	x5 =	0.75	
5.							Column Totals:	0.35	(A)	1.1	(B)
6											
7							Prevale	nce Index = B/A	. =	3.14	
8.											
9											
10							Hydrophytic Vege	tation Indicate	ors:		
11											
12.							1-Rapid T	est for Hydroph	tic Vegetatio	on	
13.								nce Test is >50°			
14.								ice Index is ≤3.			
15.							4-Morphol	ogical Adaptatio	ons <sup>1</sup> (Provide	supporting	
16								emarks or on a			
17							Problema	tic Hydrophytic	Vegetation <sup>1</sup>	Explain)	
18											
19							<sup>1</sup> Indicators of hydrid	soil and wetlar	nd hydrology	must	
20.							be present, unless	disturbed or pro	blematic.		
			3	5% =	Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.							Present?	Yes	No X		
				=	Total Cover					-	
Remarks: (Include	photo numbers here or on a separate sheet.)										
The crop is stunted	1.										

Profile Desc	ription: (Describe to the	e depth needeo	to document the inc	licator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix		Re	dox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16"	10YR 2/1	100					Silt Loam	
16-24"	10YR 5/2	95	10YR 5/4	5	С	М	Clay	
		·						
		·		-				
		· ·						
		· ·						
	oncentration, D=Depletio	n PM-Poducor	Matrix CS-Covorad	or Costod Sar	od Grains	<sup>2</sup> Location:	PL=Pore Lining, M=I	Matrix
Hydric Soil I				or Coaled Sar	iu Grains.		dicators of Hydric S	
Histoso			Sandy Gleve	ed Matrix (S4)			•	nese Masses (F12)
	pipedon (A2)		Sandy Redo					w Dark Surface (F22)
	listic (A3)		Stripped Ma					ain in Remarks)
	en Sulfide (A4)		Dark Surfac					· · · · · ·
	ed Layers (A5)			ky Mineral (F1)	)			
	luck (A10)			ed Matrix (F2)				
	ed Below Dark Surface (A	.11)	Depleted Ma					
	ark Surface (A12)			Surface (F6)			<sup>3</sup> The hydric soil inc	licators have been updated to
	Mucky Mineral (S1)			ark Surface (Fi	7)			Field Indicators of Hydric Soils
	lucky Peat or Peat (S3)		Redox Depr					tates, Version 8.0, 2016.
Restrictive I	ayer (if observed):							
Type:	ayer (il observeu).							
Depth (i	nches):					Hvdric S	oil Present?	Yes X No
Remarks:								
1								
HYDROL	OGY							
Wetland Hyd	Irology Indicators:						_	
Primary Indic	ators (minimum of one is	required: check	c all that apply)				Secondary Indicat	ors (minimum of two required)
Surface	e Water (A1)		Water-Stain	ed Leaves (B9	9)		X Surface Soil	l Cracks (B6)
High W	ater Table (A2)		Aquatic Fau	na (B13)			Drainage Pa	atterns (B10)
Saturat	ion (A3)		True Aquatio	Plants (B14)			Dry-Season	Water Table (C2)
Water	Marks (B1)		Hydrogen S	ulfide Odor (C	1)		Crayfish Bu	rrows (C8)
Sedime	ent Deposits (B2)		Oxidized Rh	izospheres on	Living Root	s (C3)	Saturation V	isible on Aerial Imagery (C9)
Drift De	eposits (B3)		Presence of	Reduced Iron	(C4)		X Stunted or S	Stressed Plants (D1)
Algal M	at or Crust (B4)		Recent Iron	Reduction in T	illed Soils (	C6)	X Geomorphic	
Iron De	posits (B5)		Thin Muck S	urface (C7)			FAC-Neutra	l Test (D5)
	ion Visible on Aerial Imag		Gauge or W	ell Data (D9)				
Sparse	ly Vegetated Concave Su	rface (B8)	Other (Expla	ain in Remarks	i)			
Field Observ	vations:							
Surface Wat	er Present?	Yes No	X Depth (inches	s): N/A				
Water Table	Present?	Yes No	X Depth (inches	s): N/A				
Saturation P	resent?	Yes No	X Depth (inches	s): N/A	Wetlar	nd Hydrolog	y Present?	Yes X No
(includes cap	oillary fringe)							
Describe Re	corded Data (stream gau	ge, monitoring v	well, aerial photos, prev	vious inspectio	ons), if availa	ıble:		
Remarks:	Carlore IV 1997							
The crop is no	ot as healthy as in other a	reas of the field.						

Project/Site:	CTH KR, CTH H to Old Green Bay Roa	d			City/County	y: Racine County		5	Sampling Da	ate: 7/25/20	18
Applicant/Owner:	Wisconisn Dept. of Transportation					e: WI	Sampling Point			P-80	
Investigator(s):	C. Firkus, E. Englund						p, Range: TWP 3N,				
Landform (hillslope,		000					al relief (concave, co				
Slope (%):	3-7% Lat:	42.669965			Long:	-	37.907373	1VCX, 110110).		AD83 UTM	16N
	e: AtA - Ashkum silty clay loam, 0 to 2 per				Long.			NWI classific		lone	
	logic conditions on the site typical for this				Voc	X No	(If no, explain	-	10011.	one	
			N -i if						N	V N-	
Are Vegetation	<u>N</u> , Soil	N , or Hydrology		icantly dist			al Circumstances" pre		Yes _	X No	
Are Vegetation	<u>N</u> , Soil	N , or Hydrology		ally probler			explain any answers	in Remarks.)			
SUMMARY OF	FINDINGS Attach site map sh	nowing sampling point loc	ations, transe	cts, impo	ortant featur	es, etc.					
	getation Present?	Yes	No	Х		e Sampled Are	ea				
Hydric Soil Pres		Yes	No	Х	withi	n a Wetland?		Yes	No	Х	
Wetland Hydrol	ogy Present?	Yes	No	Х							
Remarks: WETS analysis det	ermined that the antecedent precipitation	conditions were normal. The point	is in a soybean fie	ld.							
VEGETATION	Use scientific names of plants	5.					r				
T 01 1 (D) 1				bsolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius)		9	6 Cover	Species?	Status	Dominance Test	worksheet:			
1			· · · · · · · · · · · · · · · · · · ·								
2			·				Number of Domina	-			
3			·				That Are OBL, FAG	CW, or FAC:		0	(A)
4			·								
5							Total Number of D				
					= Total Cover		Species Across Al	Strata:		1	(B)
Sapling/Shrub Strat	tum (Plot size: 15' radius)						Percent of Domina				
1			·				That Are OBL, FAG	CW, or FAC:		0%	(A/B)
2			·								
3			·								
4							Prevalence Index	worksheet:			
5.											
					= Total Cover		Total % C		N	Aultiply by:	
							That Are OBL, FAC	W, or FAC:			A/B
Herb Stratum (Plot	size: 5' radius)						OBL species	·	x1 =		
1. Glycine max				45%	Yes	UPL	FACW species	·	x2 =		
2. Portulaca olera				5%	No	FACU	FAC species		x3 =		
3. Chenopodium a	album			2%	No	FACU	FACU species	7%	x4 =	0.28	
4.							UPL species	45%	x5 =	2.25	
5.					·		Column Totals:	0.52	(A)	2.53	(B)
6					·						
7					·		Prevale	nce Index = B//	٠ = <u> </u>	4.87	
8					·						
9					·						
10			·				Hydrophytic Veg	etation Indicat	ors:		
11											
12							1-Rapid T	est for Hydroph	ytic Vegeta	tion	
13.								nce Test is >50			
14								nce Index is ≤3.			
15							4-Morpho	logical Adaptati	ons' (Provid	e supportine	g
16								emarks or on a	-		
17							Problema	tic Hydrophytic	Vegetation	' (Explain)	
18											
19.							<sup>1</sup> Indicators of hydri	c soil and wetla	nd hydrolog	y must	
20.							be present, unless	disturbed or pr	oblematic.		
				52%	= Total Cover						
Woody Vine Stratur	m (Plot size: 30' radius)						Hydrophytic				
1.							Vegetation				
2.			· · · · ·				Present?	Yes	No	х	
			·		= Total Cover					—	
Remarks: (Include	photo numbers here or on a separate she	eet.)					•				
The crop is healthy											

Profile Desc	ription: (Describe to th	e depth needed to	document the ind	icator or con	firm the ab	sence of inc	dicators.)	
Depth	Matrix	-		dox Features				
(inches)	Color (moist)	% 0	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18"	10YR 2/2	100					Clay Loam	
18-24"	10YR 4/4	100		•			Clay	
						•		
				•		•		
1					<u> </u>	2		
Hydric Soil I	concentration, D=Depletic	n, RM=Reduced Ma	atrix, CS=Covered c	or Coated Sar	nd Grains.		PL=Pore Lining, M=I dicators of Hydric S	
Histoso			Sandy Gleve	ed Matrix (S4)		restinc	-	nese Masses (F12)
	pipedon (A2)		Sandy Gleye					w Dark Surface (F22)
	listic (A3)		Stripped Mat					ain in Remarks)
	en Sulfide (A4)		Dark Surface					
	ed Layers (A5)			xy Mineral (F1)	)			
	luck (A10)			ed Matrix (F2)	-			
	ed Below Dark Surface (A	411)	Depleted Ma					
	ark Surface (A12)	,	Redox Dark				<sup>3</sup> The hydric soil inc	licators have been updated to
Sandy I	Mucky Mineral (S1)			rk Surface (F7	7)			Field Indicators of Hydric Soils
5 cm M	lucky Peat or Peat (S3)		Redox Depre	essions (F8)			in the United S	tates, Version 8.0, 2016.
Restrictive I	ayer (if observed):							
Type:								
Depth (ii	nches):					Hydric Se	oil Present?	Yes No X
Remarks:	·					•		
HYDROL	OGY							
Wetland Hyd	drology Indicators:							
	ators (minimum of one is	s required: check all						ors (minimum of two required)
Surface	e Water (A1)		Water-Staine	ed Leaves (B9	<del>)</del> )			l Cracks (B6)
High W	ater Table (A2)		Aquatic Faun	na (B13)			Drainage Pa	atterns (B10)
Saturati	ion (A3)		True Aquatic	Plants (B14)				Water Table (C2)
	Marks (B1)			ulfide Odor (C	,		Crayfish Bu	
	ent Deposits (B2)			zospheres on	-	s (C3)		isible on Aerial Imagery (C9)
	eposits (B3)			Reduced Iron			Stunted or S	Stressed Plants (D1)
	at or Crust (B4)			Reduction in T	illed Soils (C	26)		c Position (D2)
	posits (B5)		Thin Muck Su	urface (C7)			FAC-Neutra	l Test (D5)
	ion Visible on Aerial Imag		Gauge or We					
Sparsel	ly Vegetated Concave S	urface (B8)	Other (Explai	in in Remarks	;)			
Field Observ	vations:				Τ			
Surface Wate	er Present?	Yes No X	Depth (inches	s): N/A				
Water Table	Present?	Yes No X	Depth (inches	s): N/A				
Saturation Pr	esent?	Yes No X	Depth (inches	s): N/A	Wetlan	nd Hydrolog	y Present?	Yes NoX
(includes cap								
Describe Re	corded Data (stream gau	uge, monitoring well.	, aerial photos, prev	ious inspectio	ns), if availa	ble:		
D. standard								
Remarks: No wetland hy	/drology was observed.							
No wettand hy	arology was observed.							

Project/Site:	CTH KR, CTH H to Old Green Bay Road			City/County	: Racine County		٤	Sampling Date	e: 7/25/20	18
Applicant/Owner:	Wisconisn Dept. of Transportation			State		Sampling Point		DP-8		
Investigator(s):	C. Firkus, E. Englund					p, Range: TWP 3N, I			-	
Landform (hillslope						al relief (concave, cor				
Slope (%):	3-7% Lat:	42.66859		Long:		7.857103		Datum: NA	D83 UTM	16N
	e: MzdB - Ozaukee silt loam, 2 to 6 percent slopes						NWI classifica			
	ologic conditions on the site typical for this time of			Yes	X No	(If no, explain i	-			
Are Vegetation	N , Soil N	, or Hydrology	N significantly dis	-		al Circumstances" pre		Yes X	( No	
Are Vegetation	N , Soil N	, or Hydrology	N naturally proble			explain any answers				
	FINDINGS Attach site map showing						,			
						2				
Hydric Soil Pres	egetation Present?	Yes <u>X</u> Yes	No <u> </u>	-	Sampled Are	a	Yes	No	×	
Wetland Hydrol		Yes	No X	-			103	_ 110		
Remarks:				-						
	termined that the antecedent precipitation conditio	ns were normal. The area i	s mapped as wetland by the	WWI; however the	he actual feature	is outside the survey	area.			
VEGETATION	Use scientific names of plants.					1				
Tree Streture (Diet	t size: 20' radius)		Absolute	Dominant	Indicator					
Tree Stratum (Plot			% Cover	Species?	Status	Dominance Test	vorksheet:			
1. Ulmus america	ina		40%	Yes	FACW					
2				·		Number of Dominal That Are OBL, FAC		F		(A)
3						That Are OBL, FAC	W, OF FAC.	5		(A)
4						Total Number of Dr	minant			
5			40%	= Total Cover		Total Number of Do Species Across All		8		(B)
			40 %			Species Across Air	Stidid.			(B)
Sapling/Shrub Stra	atum (Plot size: 15' radius)					Percent of Dominal	nt Species			
1. Zanthoxylum a			40%	Yes	FACU	That Are OBL, FAC		639	%	(A/B)
2. Fraxinus penns			10%	Yes	FACW	mat file ODE, I file			/0	(//////
3.										
4.			,			Prevalence Index	worksheet:			
5.				·						
			50%	= Total Cover		Total % C	over of:	М	ultiply by:	
				-		That Are OBL, FAC				A/B
Herb Stratum (Plot	t size: 5' radius)					OBL species		x1 =	-	
1. Cornus racemo	osa	_	15%	Yes	FAC	FACW species	69%	x2 =	1.38	
2. Galium triflorun	m		10%	Yes	FACU	FAC species	35%	x3 =	1.05	
3. Carex pensylva	anica		10%	Yes	UPL	FACU species	67%	x4 =	2.68	
4. Geum aleppicu	ım		10%	Yes	FACW	UPL species	10%	x5 =	0.5	
5. Viburnum lenta	здо		10%	Yes	FAC	Column Totals:	1.81	(A)	5.61	(B)
6. Agrimonia gryp	oosepala		5%	No	FACU					
7. Eurybia macrop	phylla		5%	No	FACU	Prevale	nce Index = B/A	۹ =	3.10	
8. Persicaria virgi	iniana		5%	No	FAC					
9. Solidago gigan	itea		5%	No	FACW					
10. Rubus idaeus			5%	No	FACU	Hydrophytic Vege	tation Indicate	ors:		
11. Carex blanda			5%	No	FAC					
12. Arisaema triphy	yllum		2%	No	FACW	1-Rapid T	est for Hydroph	ytic Vegetatio	on	
13. Arisaema draco	ontium		2%	No	FACW		nce Test is >50			
14. Circaea canade	ensis		2%	No	FACU		nce Index is ≤3.			
15							ogical Adaptatio			g
16							emarks or on a			
17						Problema	tic Hydrophytic	Vegetation' (	(Explain)	
18						1				
19						<sup>1</sup> Indicators of hydric			must	
20			91%	= Total Cover		be present, unless	disturbed or pro	oblematic.		
			3170							
Woody Vine Stratu	um (Plot size: 30' radius)					Hydrophytic				
1.						Vegetation				
2.						Present?	Yes	X No		
				= Total Cover					-	
	e photo numbers here or on a separate sheet.) tions to black ash in the wetland.									

Profile Descr	ription: (Describe to the	e depth needed	to document the ind	licator or con	firm the ab	sence of in	dicators.)	
Depth	Matrix			dox Features	1	2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18"	10YR 2/1	100					Clay Loam	
18-24"	10YR 4/3	97	10YR 5/4	3	С	М	Clay	
				•		•	·	
						•		
<sup>1</sup> Tvpe: C=C	Concentration, D=Depletio	n. RM=Reduced	Matrix. CS=Covered (	or Coated San	nd Grains.	<sup>2</sup> Location:	PL=Pore Lining, M=	Matrix.
Hydric Soil I				<u>.</u>			dicators of Hydric \$	
Histoso	ol (A1)		Sandy Gleye	ed Matrix (S4)			Iron-Manga	anese Masses (F12)
Histic E	pipedon (A2)		Sandy Redox	x (S5)			Very Shallo	w Dark Surface (F22)
Black H	Histic (A3)		Stripped Mat	. ,			Other (Expl	lain in Remarks)
	en Sulfide (A4)		Dark Surface	( )				
	ed Layers (A5)			ky Mineral (F1)	1			
	luck (A10)			ed Matrix (F2)				
	ed Below Dark Surface (A	.11)	Depleted Ma	. ,			a	
	Oark Surface (A12)		Redox Dark					dicators have been updated to
	Mucky Mineral (S1)		·	rk Surface (F7	')			e Field Indicators of Hydric Soils
5 CM IVI	lucky Peat or Peat (S3)		Redox Depre	essions (⊢ŏ)			in the United S	States, Version 8.0, 2016.
Restrictive L	ayer (if observed):							
Туре:							-	
Depth (ii	nches):					Hydric S	oil Present?	Yes NoX
HYDROL								
-	drology Indicators:						I	
	cators (minimum of one is	required: check	11 27	11				tors (minimum of two required)
	e Water (A1)			ed Leaves (B9	')			il Cracks (B6)
	(ater Table (A2)		Aquatic Faun					Patterns (B10)
	tion (A3) Marka (B1)			Plants (B14)	4 \			n Water Table (C2)
	Marks (B1)			ulfide Odor (C1	-	~ (02)	Crayfish Bu	
	ent Deposits (B2) eposits (B3)			izospheres on Reduced Iron	-	s (U3)		Visible on Aerial Imagery (C9) Stressed Plants (D1)
	lat or Crust (B4)			Reduction in T		<b>7</b> 6)		ic Position (D2)
	eposits (B5)		Thin Muck St			507	FAC-Neutra	
	tion Visible on Aerial Imag	ierv (B7)	Gauge or We	. ,				
	ly Vegetated Concave Su			in in Remarks)	)			
Field Observ		· ·	·		, T			
Surface Wate		Yes No X	C Depth (inches	s): N/A				
Water Table		Yes No X						
Saturation Pr		Yes No X		·	Wetlar	nd Hydrolog	v Present?	Yes No X
(includes cap							, <b>, , , , , , , , , , , , , , , , , , ,</b>	
	corded Data (stream gau	ige, monitoring w	ell, aerial photos, prev	vious inspection	ns), if availa	able:		
Remarks:								
No wetland hy	/drology was observed.							

CTH KR - CTH H to Old Green Bay Rd



WisDOT Community Classification Guide

Cir39 Classification	Wetland Type Bank Site *	Examples of Vegetational Community Types
1A Seasonally flooded basin or flat	Riparian wetland (RPF) (wooded)	Floodplain Forest (includes Bottomland Hardwood forests **), Riparian Shrub Carr and Alder Thickets
1B Seasonally flooded basin or flat	Riparian wetland (RPE) (emergent)	Riparian Wet and Sedge Meadows, Bars and Mudflats
2 Inland fresh meadow	Wet Meadow (M)	Wet Meadow, Wet/Wet Mesic Prairie, Sedge Meadow, Vernal pools, (also includes Fens **)
3 Inland shallow fresh marsh	Shallow Marsh (SM)	Emergent Aquatic
4 Inland deep fresh marsh	Deep Marsh (DM)	Emergent and Submergent Aquatic
5 Inland open fresh water	Aquatic Bed (AB)	Submergent Aquatic, Aquatic Bed (depth less than 3 Meters)
6 Shrub swamp	Shrub Scrub (SS)	Shrub Carr, Alder Thicket
7 Wooded swamp	Wooded Swamp (WS) (Forested Wetland)	Wet/Wet-Mesic Deciduous Forests White Cedar Swamps
8 Bog	Bog (Bog)	Open Bog, Forested Bog

\* Wetland types used for purposes of this bank system. These should be refered to by name or by acronym (e.g. RPF, SM, AB, etc.)

\*\* Red flag wetlands