



Wetlands Delineation Report IH 94 (North-South)

Milwaukee County, Wisconsin

DOT Project ID: 1030-20-07

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Prepared for

**Wisconsin Department of
Transportation**

Southeast Region

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CONTENTS

1.0	INTRODUCTION	1
2.0	METHODS.....	1
3.0	RESULTS AND DISCUSSION.....	2
3.1	BACKGROUND REVIEW	2
3.1.1	Topography	2
3.1.2	Wisconsin Wetland Inventory	2
3.1.3	Soils	3
3.1.4	Prior Wetland Delineation (2009).....	3
3.1.5	Precipitation Data.	4
3.2	FIELD STUDY	4
3.2.1	Site Description	4
3.2.2	Wetlands	4
3.2.3	Waterways	5
4.0	CONCLUSION.....	5
5.0	LIMITATIONS	5
6.0	REFERENCES	6

APPENDICES

Appendix A: Figures
Appendix B: 2009 Wetland Boundary Map
Appendix C: 2009 Wetland Determination Data Forms
Appendix D: WETS Analysis
Appendix E: 2014 Wetland Delineation Map
Appendix F: Site Photographs
Appendix G: 2014 Wetland Determination Data Forms
Appendix H: Plant Lists / Floristic Quality Assessments
Appendix I: Wetland Summary Table
Appendix J: Statement of Qualifications

1.0 INTRODUCTION

Per the request of the Wisconsin Department of Transportation, GRAEF conducted a wetlands delineation update and verification of previously delineated wetlands within two designated Study Areas along Interstate Highway 94 (Figure 1, Appendix A). Study Area A is located from 3,000 feet south of Ryan Road to 2,000 feet north of Puetz Road in an area that generally ranges from 130 feet to 650 feet from the shoulder of the road in parts of Sections 18, 19, and 30; Township 5 North; Range 22 East in Milwaukee County, Wisconsin. Study Area B is located approximately from 1,970 feet south of Rawson Avenue to approximately 2,560 feet south of Rawson Avenue in an area approximately 110 feet from the shoulder of the road in parts of Section 7, Township 5 North, Range 22 East in Milwaukee County, Wisconsin.

The purpose of this wetland delineation was to verify and, when needed, revise the wetland boundaries that were previously delineated in 2009 by GRAEF. Our study is presented here in terms of methodology, results, and conclusions.

The wetlands delineation field investigation was conducted by GRAEF scientists Geoffrey B. Parish and Ronald A. Londré on August 1st, 4th, 6th, 18th, and 19th of 2014. A Statement of Qualifications on the field investigators is provided in Appendix J.

2.0 METHODS

This delineation was conducted in accordance with the guidelines of 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, 2010) and in general accordance with Wisconsin Department of Natural Resources guidelines (WI Department of Administration, WI Coastal Management Program, 1995) and Wisconsin Department of Transportation Wetland Mitigation Banking Technical Guidelines (1993). National Wetland Indicator status and taxonomic nomenclature is referenced from The National Wetland Plant List (Lichvar 2014). National Wetland Indicator status is based on the Midwest Region.

Prior to conducting fieldwork, GRAEF scientists reviewed a previous wetland delineation report from 2009 and several maps including the United States Geological Survey (USGS) 7.5' Quadrangle maps, Wisconsin Wetland Inventory Map, Natural Resource Conservation Service (NRCS) Soil Survey Map, and aerial photographs. *Note: NRCS no longer releases their NRCS Wetland Inventory Maps to other than the landowner or operator without documented permission from the landowner or operator; therefore they were not reviewed nor are they included with this report.*

Precipitation data from approximately 90 days prior to the field investigation was obtained from a weather station near the Study Area and compared with 30-year average precipitation data obtained from a NRCS WETS Table for the County where the Study Area was located to determine if antecedent hydrologic conditions at the time of the site visit were normal for the time of the year.

The wetland verification process was conducted by uploading the wetland shape files from the previous 2009 wetland delineation onto a sub-meter accurate handheld GPS device (Trimble Geo-XH). The GPS device containing the wetland shape files and wetland boundary maps from the 2009 wetland delineation were used to walk and evaluate each previously delineated wetland boundary and determine whether any of the boundaries had changed over the past five years. Verified wetland boundaries, newly delineated wetlands, and revised boundaries are clearly identified on Exhibit A, Appendix E.

Sampling points were located in areas where new wetlands were determined to be present or where revisions to wetland boundaries were identified. The points were placed in areas exhibiting wetland and upland characteristics to document the presence and/or absence of wetlands and to provide support for the delineated wetland boundaries. At each sampling point, data were collected to document the vegetation, soils, and indicators of wetland hydrology. The wetland boundaries were staked using wire pin flags and when needed flagging tape. Wetland boundaries were generally determined by distinct to subtle differences in the abundance of hydrophytic vegetation and upland vegetation, apparent topographic breaks, and regular probing of soils.

A Floristic Quality Assessment (FQA) of each newly delineated wetland was conducted using the guidelines described in Development of a Floristic Quality Assessment for Wisconsin (Bernthal, 2003) as adopted and amended from the Plants of the Chicago Region (Swink and Wilhelm, 1994). A meander survey was performed for each wetland area to identify and document all vascular plant species present and identifiable at the time of the site visit. Based on the data collected, mean C and Floristic Quality Index (FQI) values were calculated using coefficients of conservatism values made available by the University of Wisconsin-Madison Herbarium's "Checklist of the Vascular Plants of Wisconsin".

3.0 RESULTS AND DISCUSSION

3.1 BACKGROUND REVIEW

3.1.1 Topography

Topography and surface water drainage within the Study Area is largely a result of grades and drainage of the highway. Generally, surface water flows into ditches alongside the highway and is directed towards tributaries of Oak Creek. Topographic contours are shown on maps (Figure 2) in Appendix A.

3.1.2 Wisconsin Wetland Inventory

The Wisconsin Wetland Inventory (WWI) map (Figure 3, Appendix A) depicted 19 wetlands within Study Area A and 2 wetlands within Study Area B. The types of wetlands within the Study Areas shown on the WWI map are listed in Table 1 below.

Table 1. Mapped WWI Wetland Types

Study Area	Map Unit Symbol	Description
A	W0Hx	Open water; subclass unknown; Standing water, palustrine; excavated
A	E2H	Emergent/wet meadow; narrow-leaved persistent; Standing water, palustrine
A	E2K	Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine
A	E2Ka	Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine; Abandoned
A	E2Kx	Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine; Excavated
A, B	T3/E2K	Forested; Broad-leaved deciduous / Emergent/wet meadow; narrow-leaved persistent; Wet soil, palustrine
B	T3K	Forested; Broad-leaved deciduous; Wet soil, palustrine

3.1.3 Soils

According to the NRCS Soil Survey map (Figure 4, Appendix A) 13 mapped soil units are located within Study Area A and 5 units are located within Study Area B. The types of mapped soils are listed on Table 2 below.

Table 2. Mapped Soils

Study Area	Map Unit Symbol	Taxonomic Classification	Hydric Classification
A, B	AsA	Ashkum silty clay loam, 0-3% slopes	All hydric
A	AzB	Aztalan loam, 2-6% slopes	Not hydric
A, B	BIA	Blount silt loam, 1-3% slopes	Not hydric
A	HeB	Hebron loam, 2 to 6 percent slopes	Not hydric
A	HtA	Houghton muck, 0 to 2 percent slopes	All hydric
A	MmA	Matherton silt loam, 1 to 3 percent slopes	Not hydric
A, B	MzdB	Morley silt loam, 2 to 6 percent slopes	Not hydric
A, B	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric
A, B	MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	Not hydric
A	MzdD2	Morley silt loam, 12 to 20 percent slopes, eroded	Not hydric
A	Mzg	Muskego muck	All hydric
A	PrA	Pistakee silt loam, 1 to 3 percent slopes	Not hydric
A	Sm	Sebewa silt loam	All hydric

3.1.4 Prior Wetland Delineation (2009)

The prior wetland delineation conducted by GRAEF in 2009, as a part of a larger project, showed twenty delineated wetlands (Appendix B) within the Study Area. Copies of the Wetland Determination Data Forms from the 2009 report are provided in Appendix C.

3.1.5 Precipitation Data.

The WETS analysis worksheet is provided in Appendix D. According to the MRCC cli-MATE database, the total precipitation from a nearby weather station (MILWAUKEE MITCHELL AP, WI839) for the 90 days prior to the start of the field investigation on August 1st, 2014 was approximately 11.21 inches. The precipitation data for the 90 day period preceding the month of August were entered into a WETS analysis worksheet to determine antecedent hydrologic conditions at the time of the site visit for field investigation purposes. Based on this analysis, the precipitation total for the 90 days prior to the site visits was considered to be within a normal range, suggesting that the surface or near-surface hydrology at the time of the site visit was normal and that hydrologic conditions during the site visit were typical. Approximately, 3.14 inches of precipitation occurred between the start of the field investigation on August 1st and the end of the field investigation on August 18th, 2014.

3.2 FIELD STUDY

3.2.1 Site Description

The wetland investigation included two Study Areas, A and B (Figure 1, Appendix A), that were generally along the IH 94 corridor. The majority of the landscape had been altered as a result of the construction of IH 94 and associated on and off ramps, ditches and culverts. Surface water was generally managed through a series of ditches and culverts directing water towards Oak Creek and its tributaries.

There were locations within Study Area A that were under active construction and other areas where construction had recently been completed. As a result, the current conditions are not shown on the aerial photographs in Appendix A.

The majority of newly delineated wetlands were wetlands located in roadside ditches that may have existed in 2009 but were not identified as wetlands in the 2009 report. The majority of revisions to wetland boundaries were a result of expanding the wetlands to include wetlands that existed in roadside ditches that were contiguous with the previously delineated wetland boundaries. The other primary reason for revisions to wetland boundaries resulted from roadway improvement projects where permitted wetland fills altered the wetland boundaries.

3.2.2 Wetlands

Thirty wetlands (W-1 through W-12, W7-1, W7-6, W8-6, W8-7, W8-8, W9-2, W9-3, W9-4, W9-4a, W9-5, W9-6, W9-7, W9-8, W9-9, W10-1, W10-2, W10-3, and W10-4) and their boundaries were newly delineated, revised, or verified. The delineated wetland boundaries and sample points are shown on Exhibit A in Appendix E. Data were collected and recorded on Wetland Determination Data Forms at 51 sample points (Appendix G) to document newly delineated wetlands or revised wetland boundaries that were a change from the 2009 wetland delineation. Photographs were taken at each sample point and other notable locations (Appendix F).

Table 3, Appendix I provides a detailed summary of each delineated wetland. The table provides, for each wetland, data on the name, size, C-value, FQI value, wetland sample points, adjacent upland

sample points, mapped WWI wetlands, wetland plant community descriptions, mapped wetland soils and classifications, comments on apparent connectivity to surface waters, comments on how wetland boundaries were determined, and other general comments.

3.2.3 Waterways

Oak Creek and various unnamed tributaries of Oak Creek were identified during the field investigation. The approximate locations of these waterways are shown on Exhibit A, Appendix E.

4.0 CONCLUSION

Based on the wetlands delineation update completed by GRAEF, thirty wetlands and their boundaries were delineated, revised, or verified with a total of 22.63 acres.

Any activity in delineated wetlands or waterways may require permits from the U.S. Army Corps of Engineers, Wisconsin Department of Natural Resources, and local governments prior to initiating work.

5.0 LIMITATIONS

The results of this field study are based on site conditions at the time of the field study, which was conducted in accordance with current regulatory policy and methods. Unknown and future conditions that affect observations of field indicators, and change in interpretation of regulatory policy, may modify future findings.

Statements within this report about the connectivity of the delineated wetlands to surface waters are the professional opinions of GRAEF's scientists and are not significant nexus determinations or jurisdictional determinations. Opinions on connectivity are based on general field observations and a cursory review of available map resources. The ultimate authority to determine jurisdiction resides with the U.S. Army Corps of Engineers and the Wisconsin Department of Natural Resources.

The U.S. Army Corps of Engineers and the Wisconsin Department of Natural Resources have the ultimate authority to determine wetland boundaries, and adjustments to wetland boundaries may occur based on decisions made by these regulatory agencies.

6.0 REFERENCES

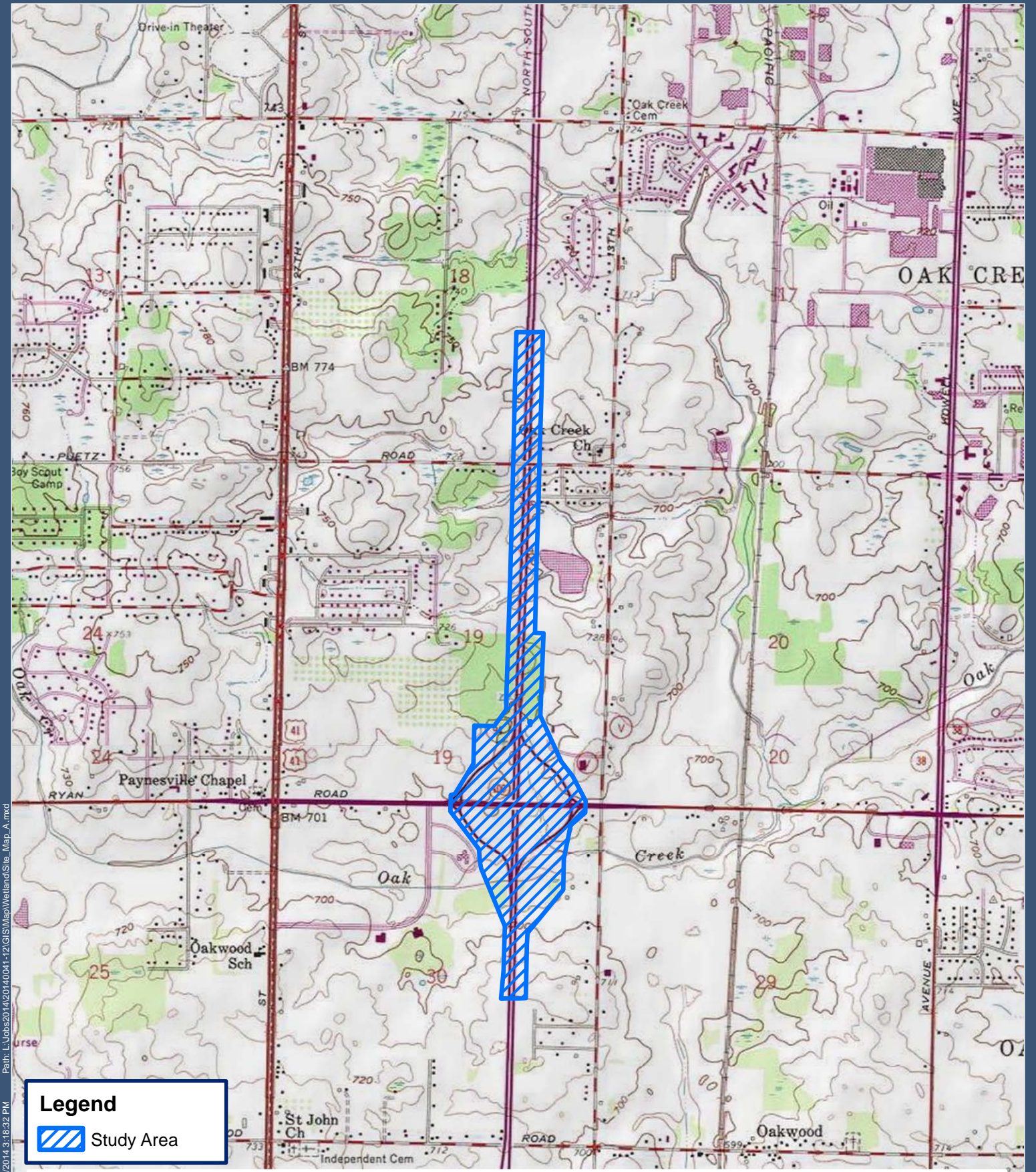
- Bernthal, Tom. 2003. Development of a Floristic Quality Assessment for Wisconsin. Wisconsin Department of Natural Resources, Bureau of Fisheries Management and Habitat Protection, 22 pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Eggers, Steve D. and Donald M. Reed. 1997. Wetland Plants and Plant Communities of Minnesota and Wisconsin. 2nd Ed. U.S. Army Corps of Engineers, St. Paul District.
- Lichvar, R.W. 2014. *The National Wetland Plant List: 2014 wetland ratings*. Phytoneuron 3013-29: 1-241.
- Midwestern Regional Climate Center cli-MATE Database <http://mrcc.isws.illinois.edu/CLIMATE/>
- Southeastern Wisconsin Regional Planning Commission (SEWRPC) Southeastern Wisconsin Regional Land Information: Regional Map Server
<http://maps.sewrpc.org/regionallandinfo/regionalmapping/RegionalMaps/viewer.htm>
- Swink, Floyd, and Gerould Wilhelm. "Plants of the Chicago region." Indianapolis: Indiana Academy of Science, 1994.
- U.S. Army Corps of Engineers. 2012. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (Version 2.0)*, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-10-16. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- USDA Natural Resources Conservation Service Web Soil Survey
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>
- USDA NRCS Climate Analysis by County Web Site (WETS). (Web Address:
<http://www.wcc.nrcs.usda.gov/climate/wetlands.html>)
- Woodward , Donald E., ed. 1997. Hydrology Tools for Wetland Determination, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.
- WI Department of Administration, WI Coastal Management Program. 1995. Basic Guide to Wisconsin's Wetlands and their Boundaries. WI Coastal Management Program, Madison, WI
- Wisconsin Department of Natural Resources Surface Water Data Viewer Web Mapping Application
<http://dnrmapping.wi.gov/imf/imf.jsp?site=SurfaceWaterViewer>
- Wisconsin Department of Transportation Wetland Mitigation Banking Technical Guideline. 1993, revised March 2002. Wisconsin Department of Natural Resources, United States Army Corps of Engineers, United States Environmental Protection Agency, United States Fish and Wildlife Service, and the Federal Highway Administration.

APPENDICES

Appendix A	Figures
Appendix B	2009 Wetland Boundary Map
Appendix C	2009 Wetland Determination Data Forms
Appendix D	WETS Analysis
Appendix E	2014 Wetland Delineation Map
Appendix F	Site Photographs
Appendix G	2014 Wetland Determination Data Forms
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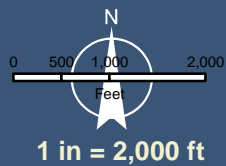
APPENDIX A

Figures



Legend

 Study Area



SITE LOCATION MAP (STUDY AREA A)

IH 94

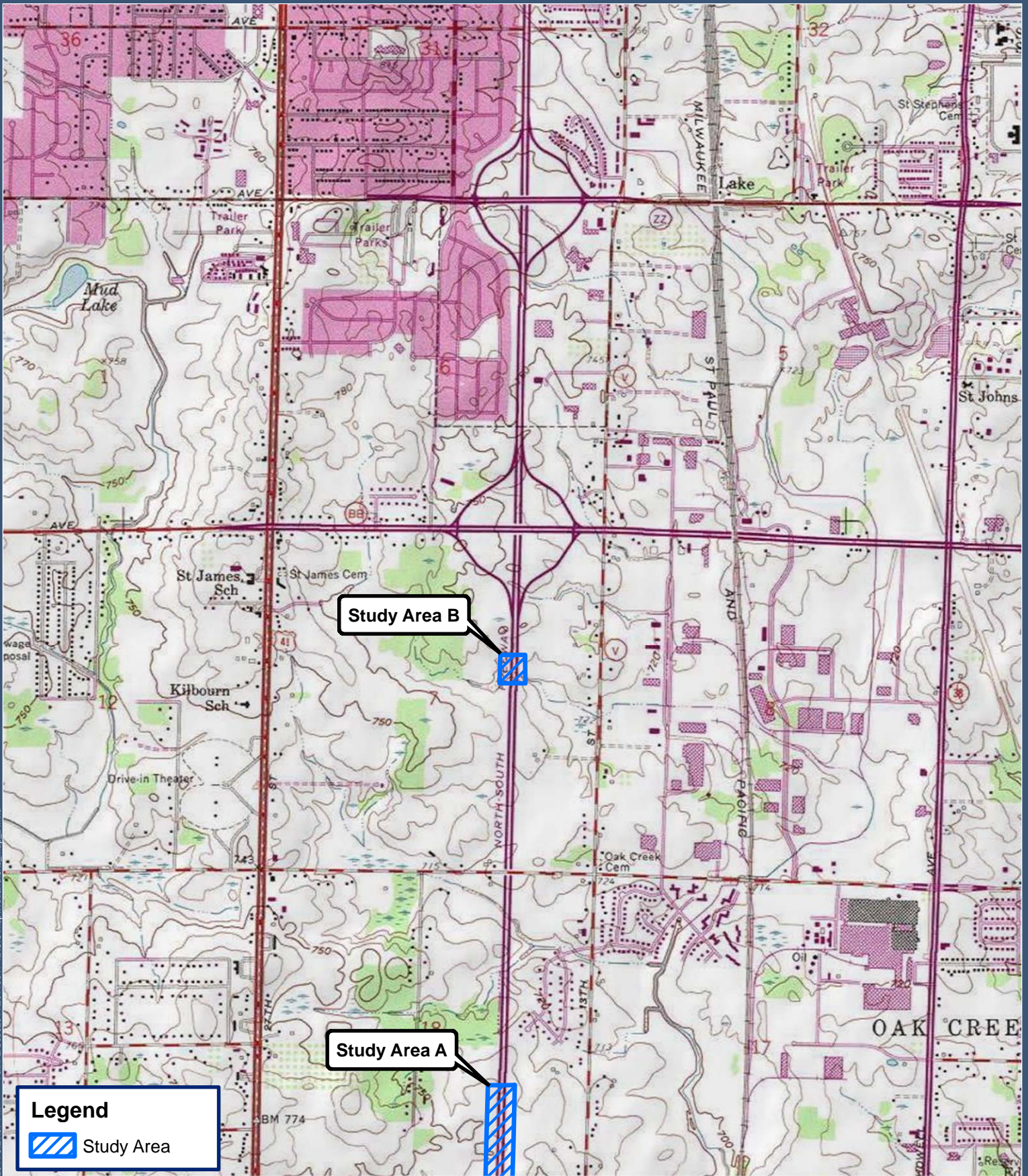
WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN

FIGURE # 1

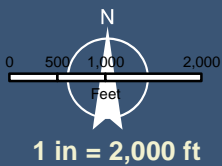
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Legend

 Study Area



SITE LOCATION MAP (STUDY AREA B)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN

FIGURE # 1

GRAEF

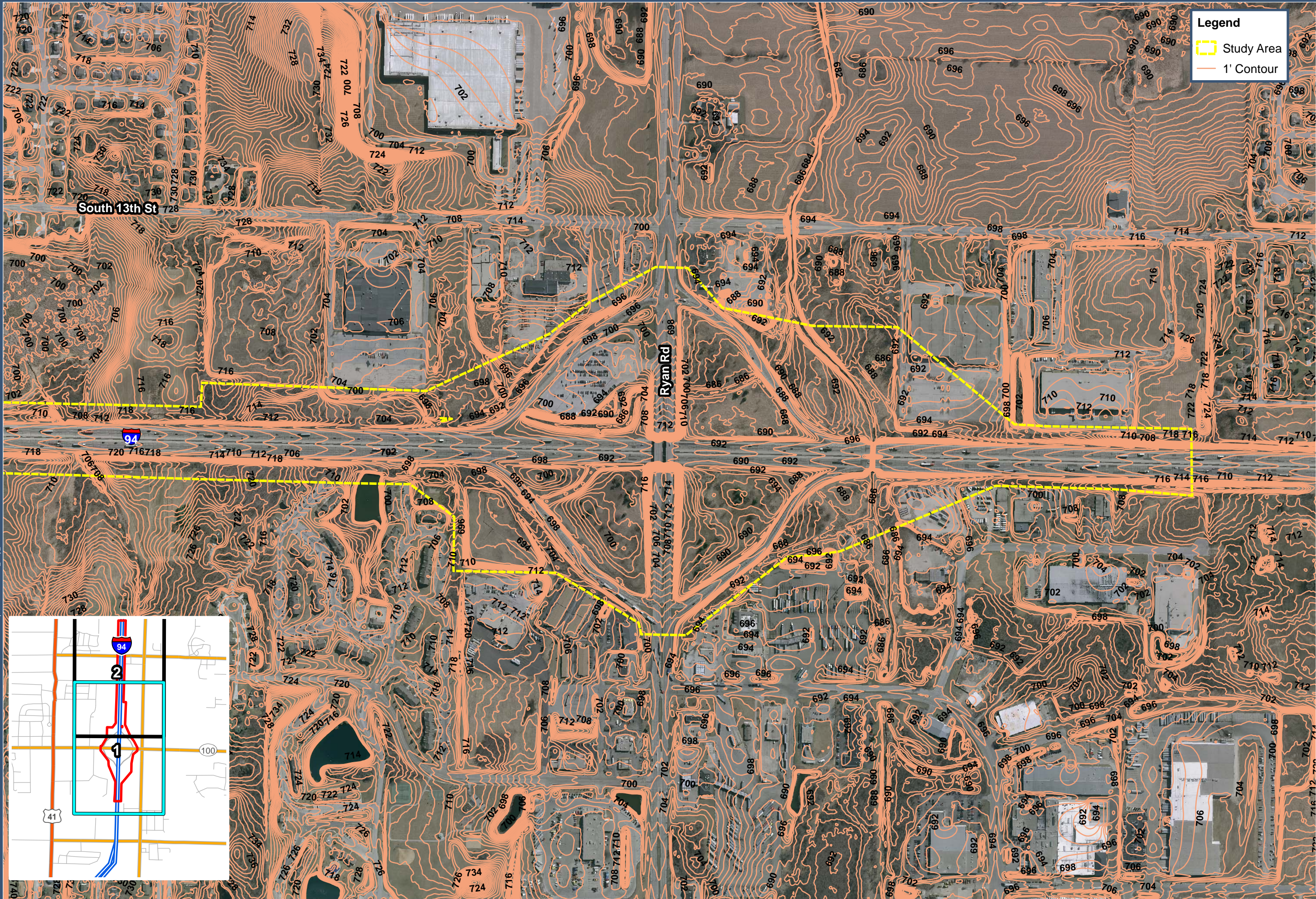


FIGURE #2-1

GRAEF

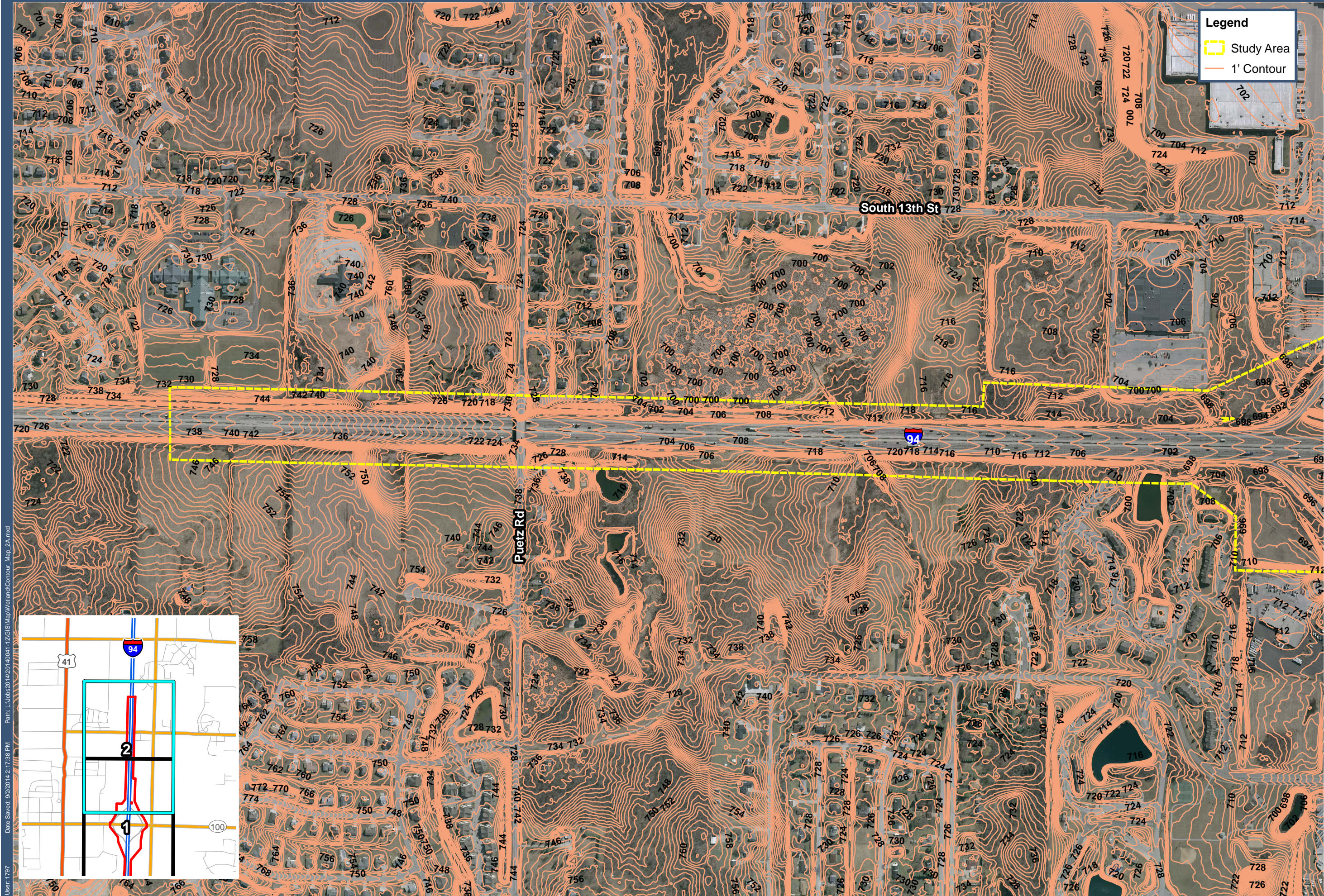
CONTOUR MAP (STUDY AREA A)

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN

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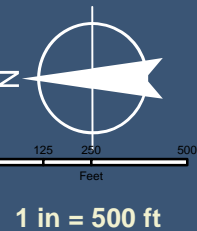
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Study Area
1' Contour

FIGURE #2-2

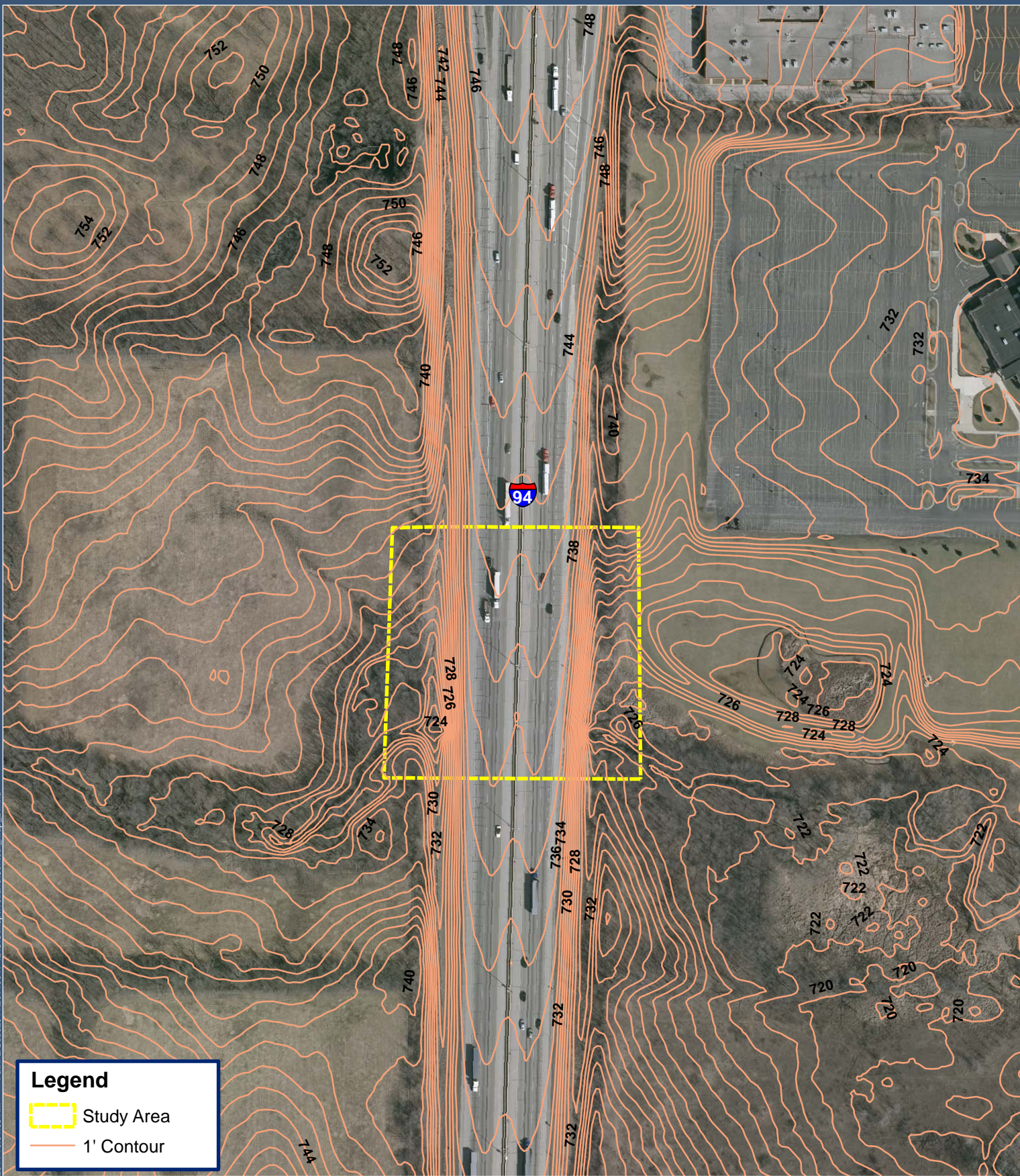
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CONTOUR MAP (STUDY AREA A)


IH 94
WETLANDS DELINEATION UPDATE
PROJECT ID 1030-20-07
MILWAUKEE COUNTY, WISCONSIN

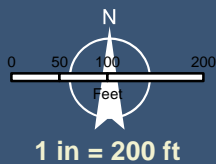


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-  1' Contour



CONTOUR MAP (STUDY AREA B)

IH 94

WETLANDS DELINEATION UPDATE

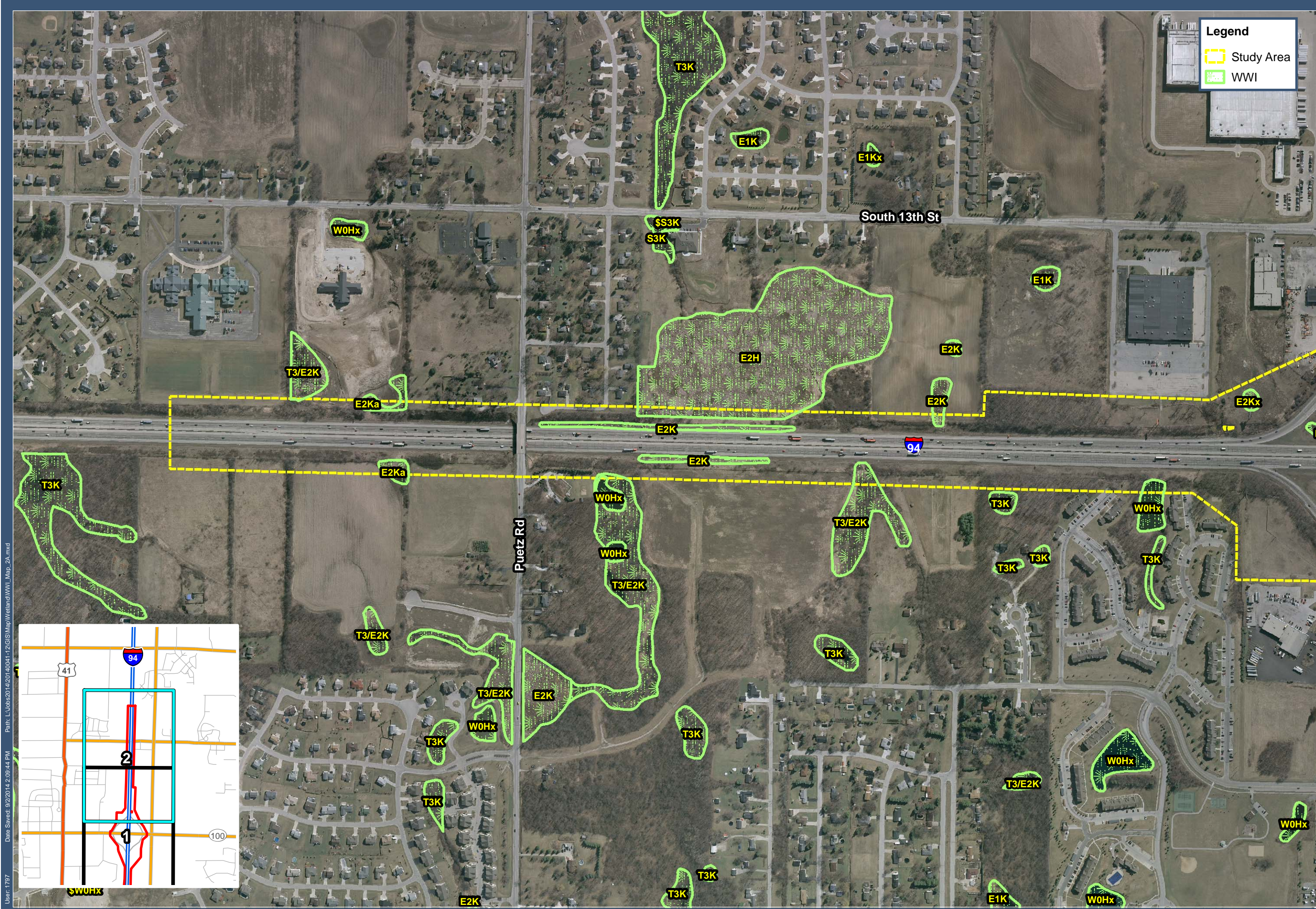
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MILWAUKEE COUNTY, WISCONSIN

FIGURE # 2

GRAEF

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Legend

- Study Area
- WWI

FIGURE #3-2

WWI MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

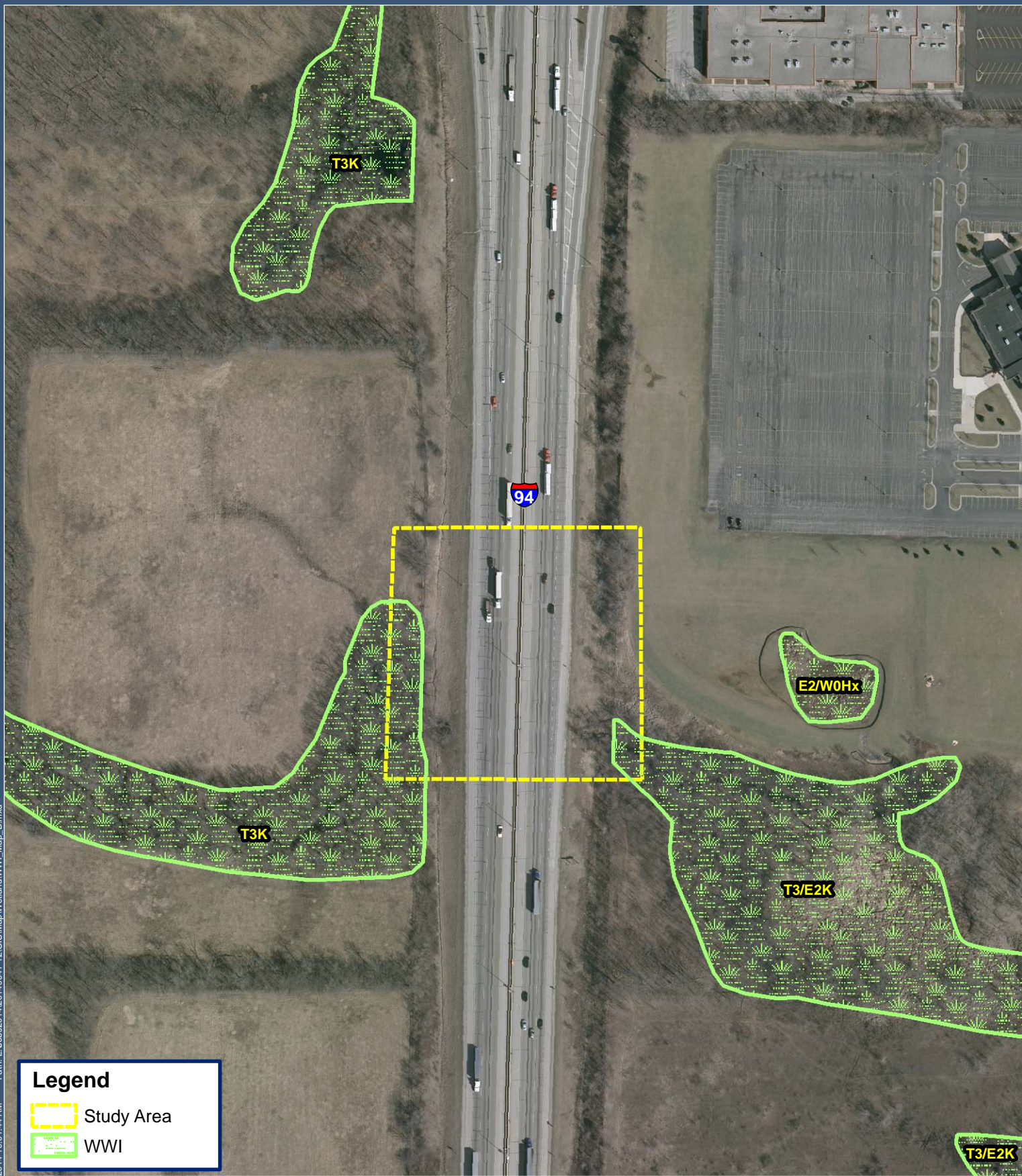
MILWAUKEE COUNTY, WISCONSIN

GRAEF



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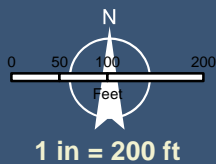
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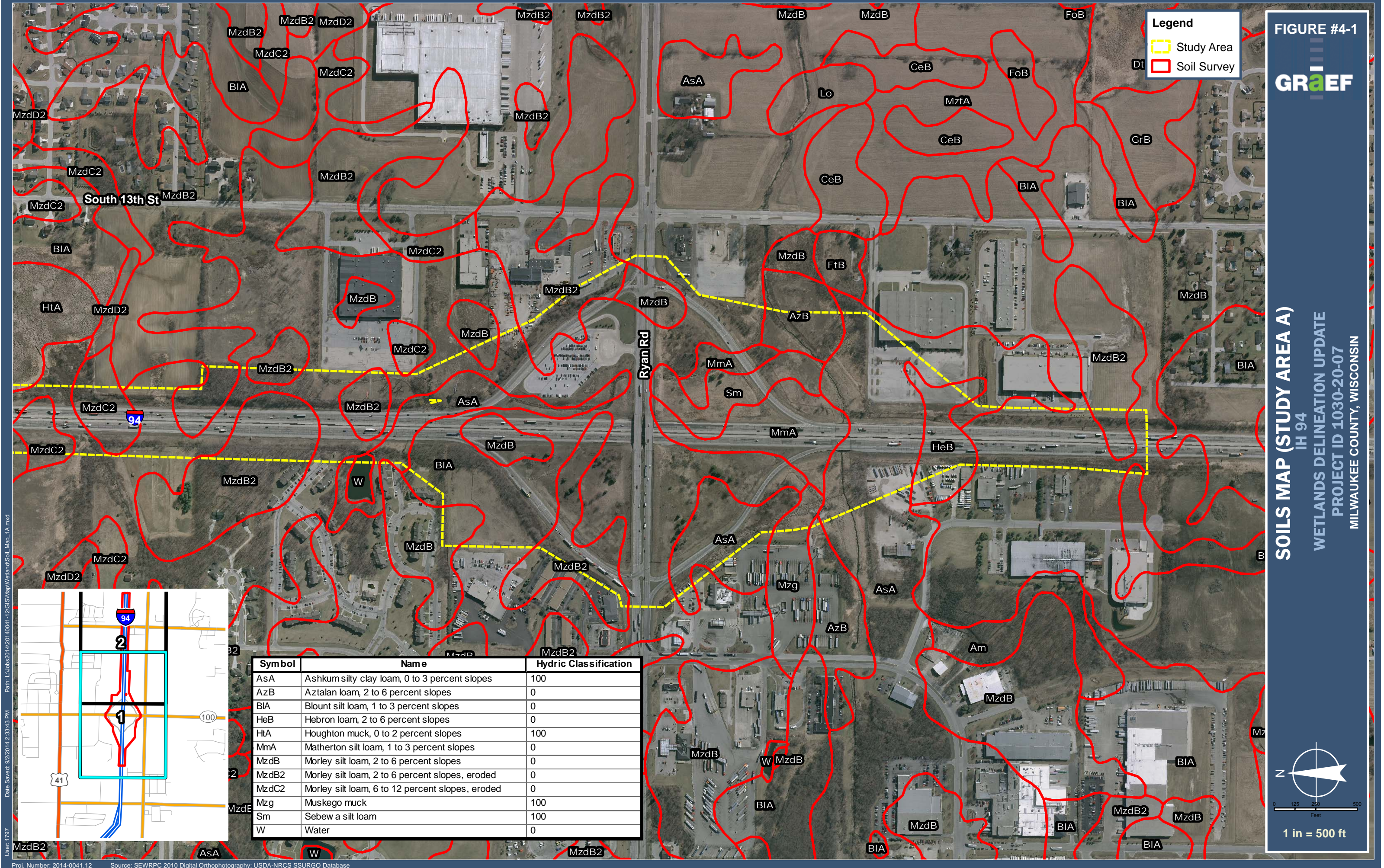
-  Study Area
-  WWI



WWI MAP (STUDY AREA B)
IH 94
WETLANDS DELINEATION UPDATE
PROJECT ID 1030-20-07
MILWAUKEE COUNTY, WISCONSIN

FIGURE # 3

GRAEF



Legend

- Study Area
- Soil Survey

FIGURE #4-1



SOILS MAP (STUDY AREA A)
IH 94
WETLANDS DELINEATION UPDATE
PROJECT ID 1030-20-07
MILWAUKEE COUNTY, WISCONSIN

Symbol	Name	Hydric Classification
AsA	Ashkum silty clay loam, 0 to 3 percent slopes	100
AzB	Aztalan loam, 2 to 6 percent slopes	0
BIA	Blount silt loam, 1 to 3 percent slopes	0
HeB	Hebron loam, 2 to 6 percent slopes	0
HtA	Houghton muck, 0 to 2 percent slopes	100
MmA	Matherton silt loam, 1 to 3 percent slopes	0
MzdB	Morley silt loam, 2 to 6 percent slopes	0
MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	0
MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	0
Mzg	Muskego muck	100
Sm	Sebewa a silt loam	100
W	Water	0

North Arrow

0 125 250 500 Feet

1 in = 500 ft

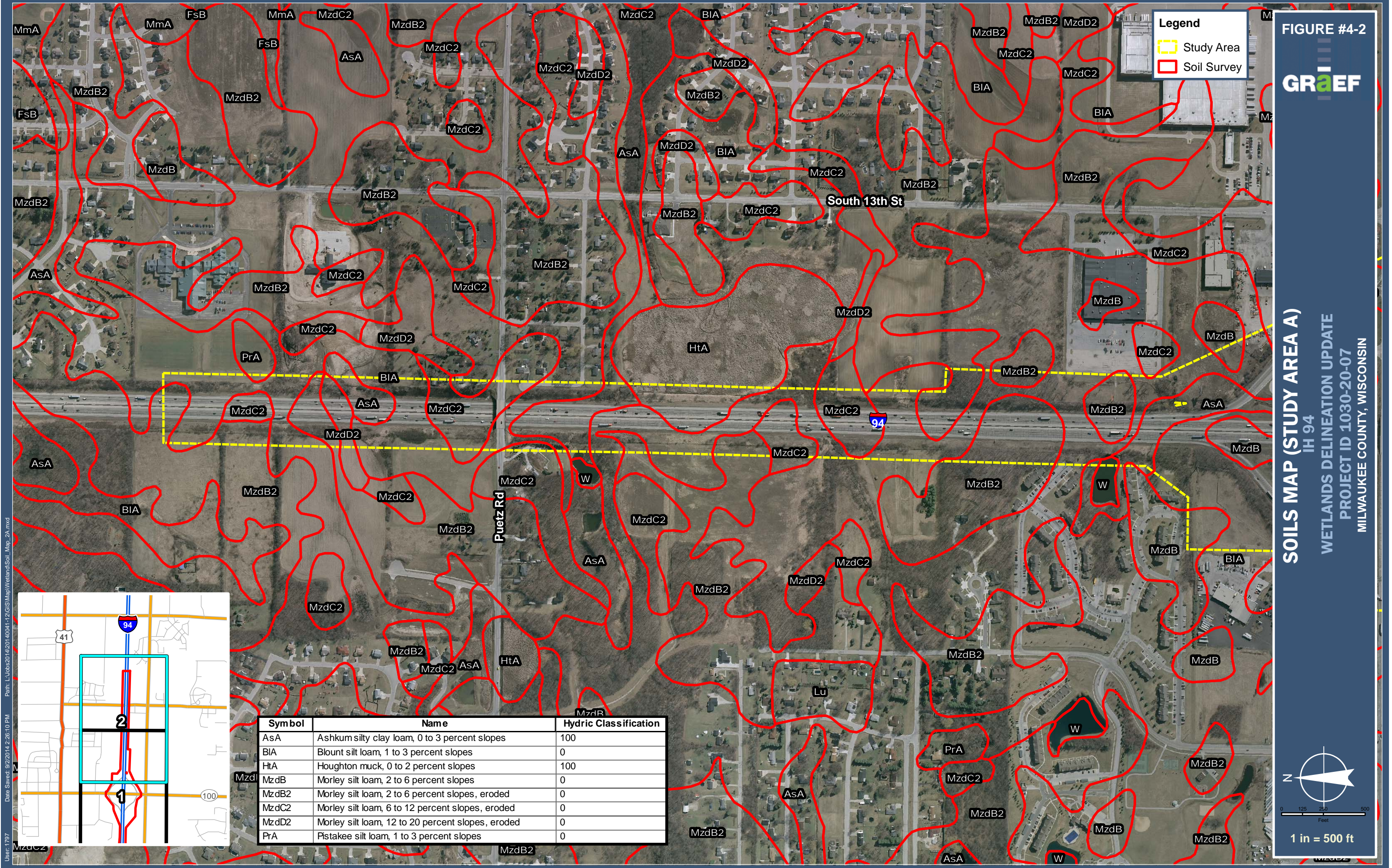


FIGURE #4-2

GRAEF

SOILS MAP (STUDY AREA A)

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

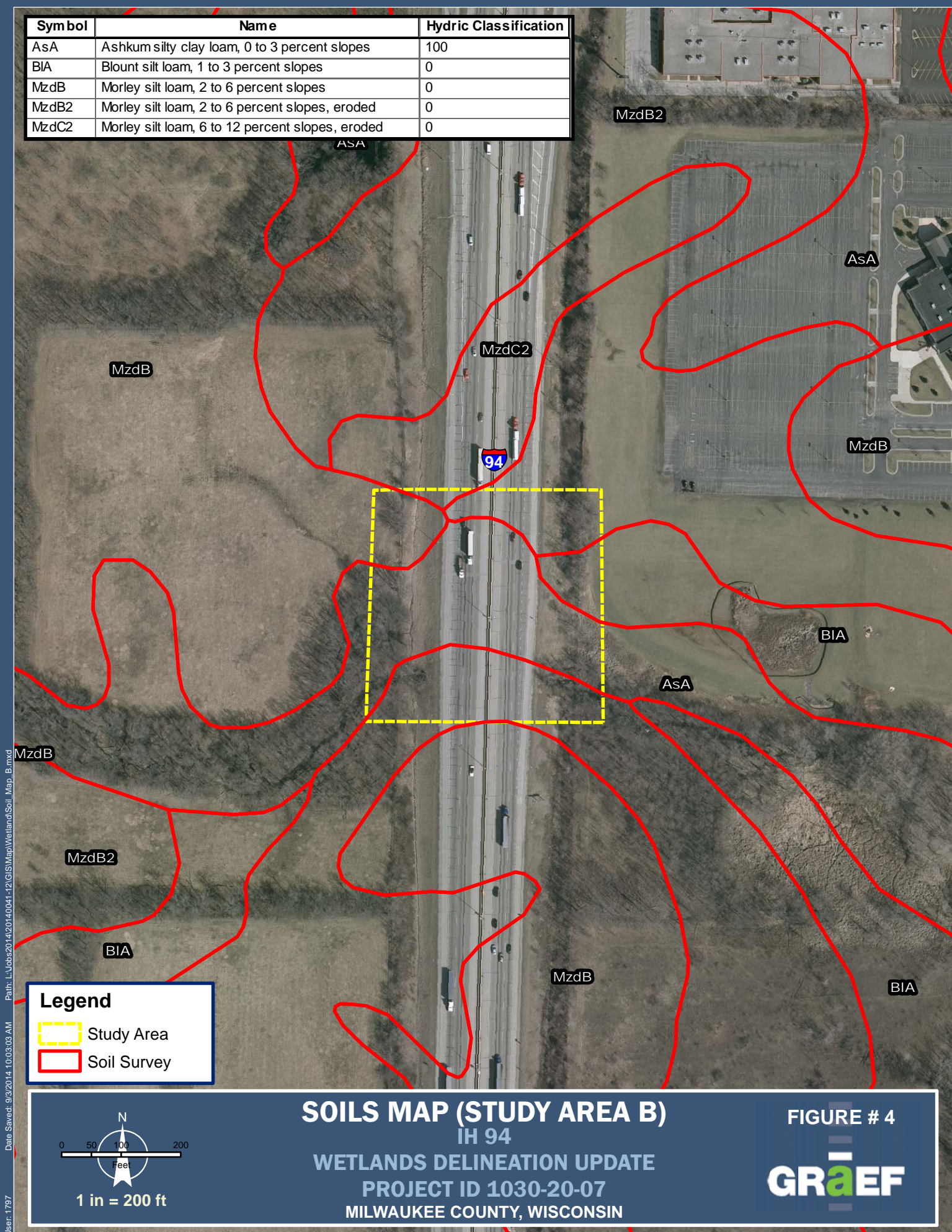
MILWAUKEE COUNTY, WISCONSIN

Legend

- Study Area
- Soil Survey

Symbol	Name	Hydric Classification
AsA	Ashkum silty clay loam, 0 to 3 percent slopes	100
BIA	Blount silt loam, 1 to 3 percent slopes	0
HtA	Houghton muck, 0 to 2 percent slopes	100
MzdB	Morley silt loam, 2 to 6 percent slopes	0
MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	0
MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	0
MzdD2	Morley silt loam, 12 to 20 percent slopes, eroded	0
PrA	Pistakee silt loam, 1 to 3 percent slopes	0

Symbol	Name	Hydric Classification
AsA	Ashkum silty clay loam, 0 to 3 percent slopes	100
BIA	Blount silt loam, 1 to 3 percent slopes	0
MzdB	Morley silt loam, 2 to 6 percent slopes	0
MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	0
MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	0



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SOILS MAP (STUDY AREA B)

IH 94

WETLANDS DELINEATION UPDATE

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FIGURE # 4

GRAEF

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Legend

 Study Area


2013 AERIAL MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN



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Feet

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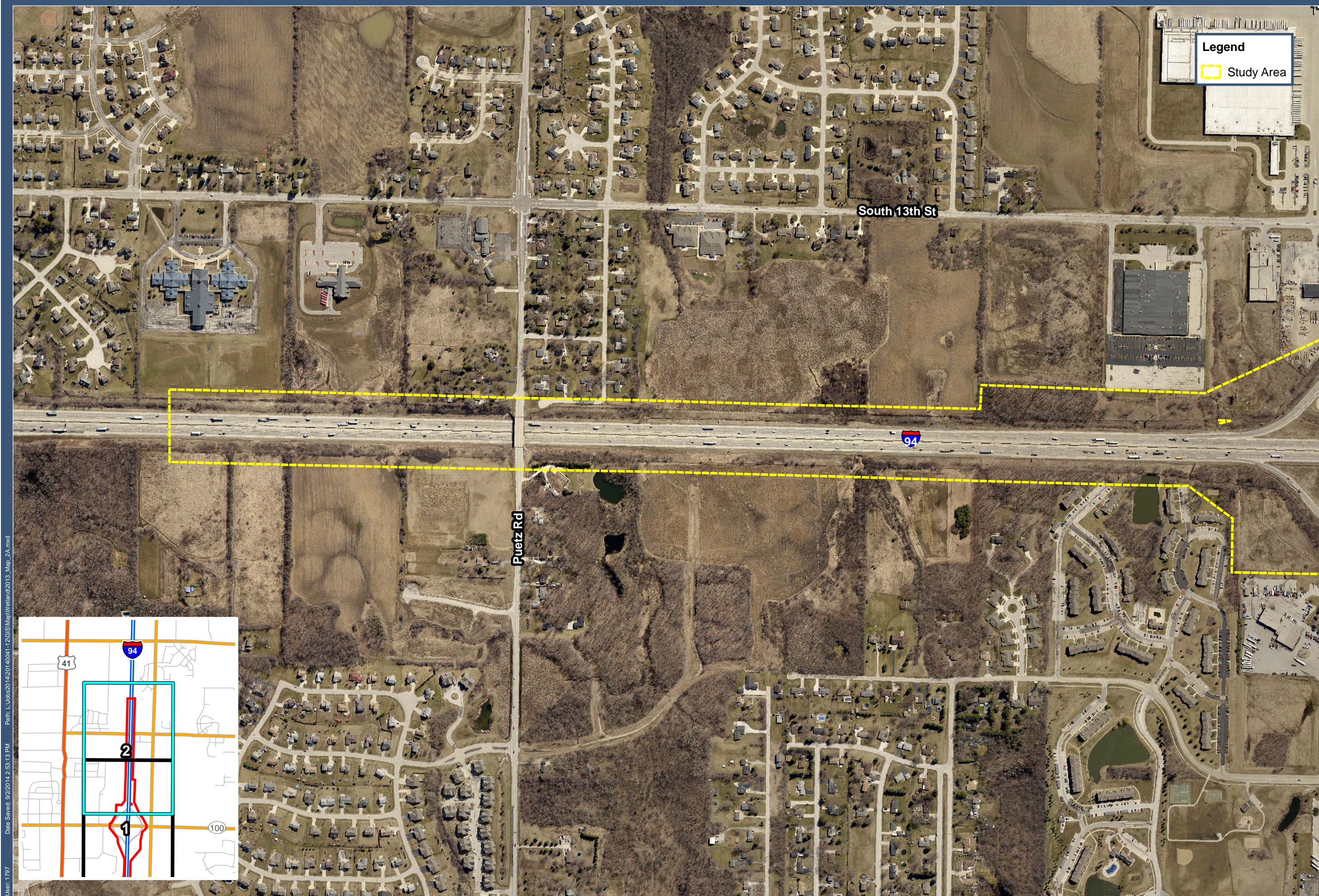


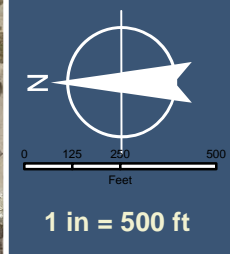
FIGURE #5-2

2013 AERIAL MAP (STUDY AREA A)

WETLANDS DELINEATION UPDATE

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MILWAUKEE COUNTY, WISCONSIN

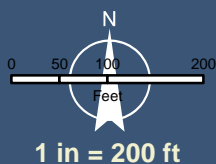


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Legend

 Study Area



2013 MAP (STUDY AREA B)

IH 94

WETLANDS DELINEATION UPDATE

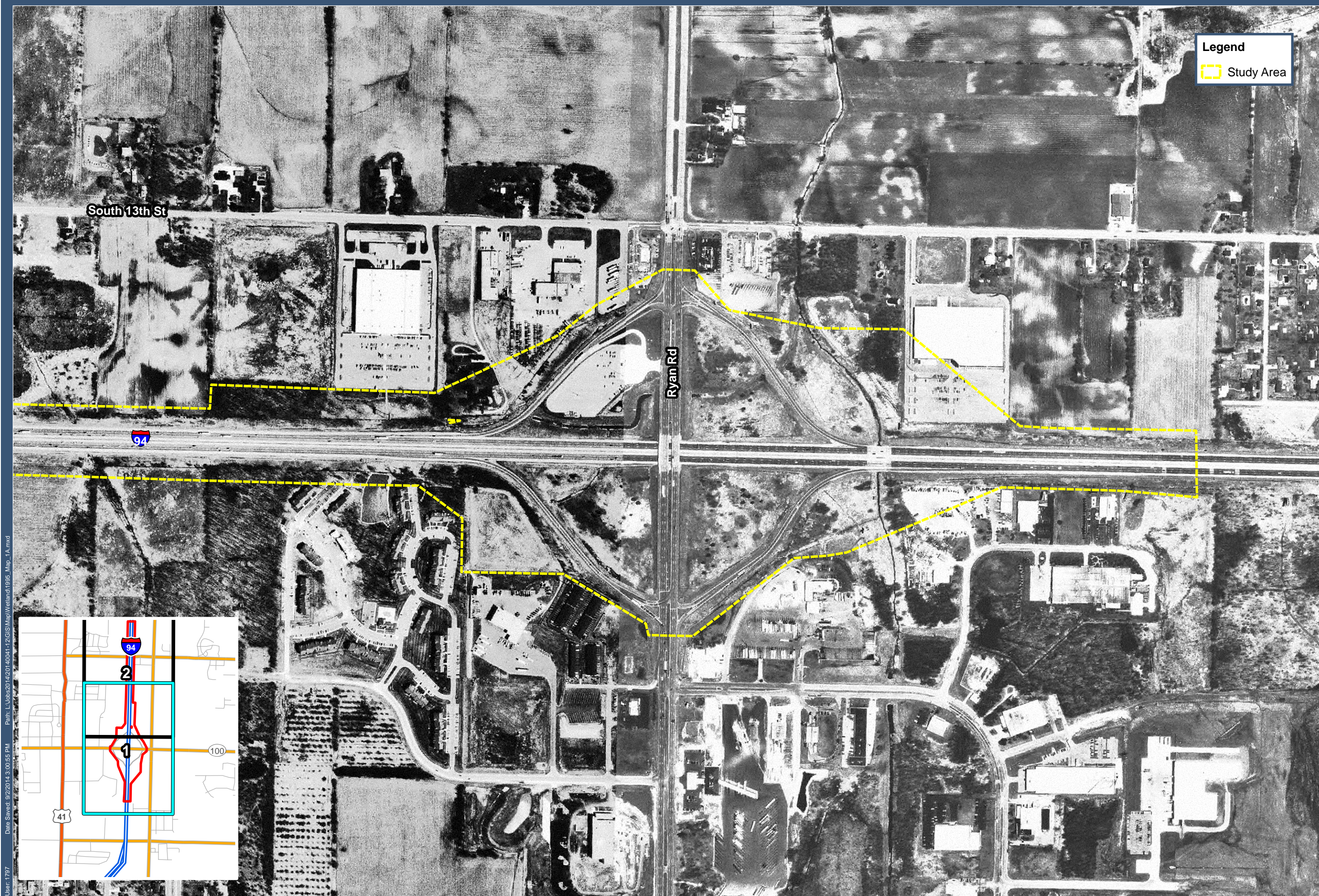
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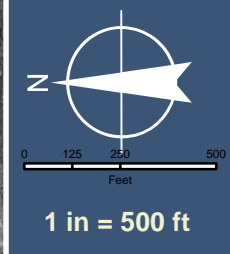
FIGURE # 5

GRAEF

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1995 AERIAL MAP (STUDY AREA A)
IH 94
WETLANDS DELINEATION UPDATE
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MILWAUKEE COUNTY, WISCONSIN



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Legend


 Study Area

FIGURE #6-2

GRAEF

1995 AERIAL MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN






1 in = 500 ft



Legend

 Study Area



1995 MAP (STUDY AREA B) IH 94

WETLANDS DELINEATION UPDATE
PROJECT ID 1030-20-07
MILWAUKEE COUNTY, WISCONSIN

FIGURE # 6



APPENDIX B

2009 Wetland Boundary Map



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- Study Boundary
- ~ Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

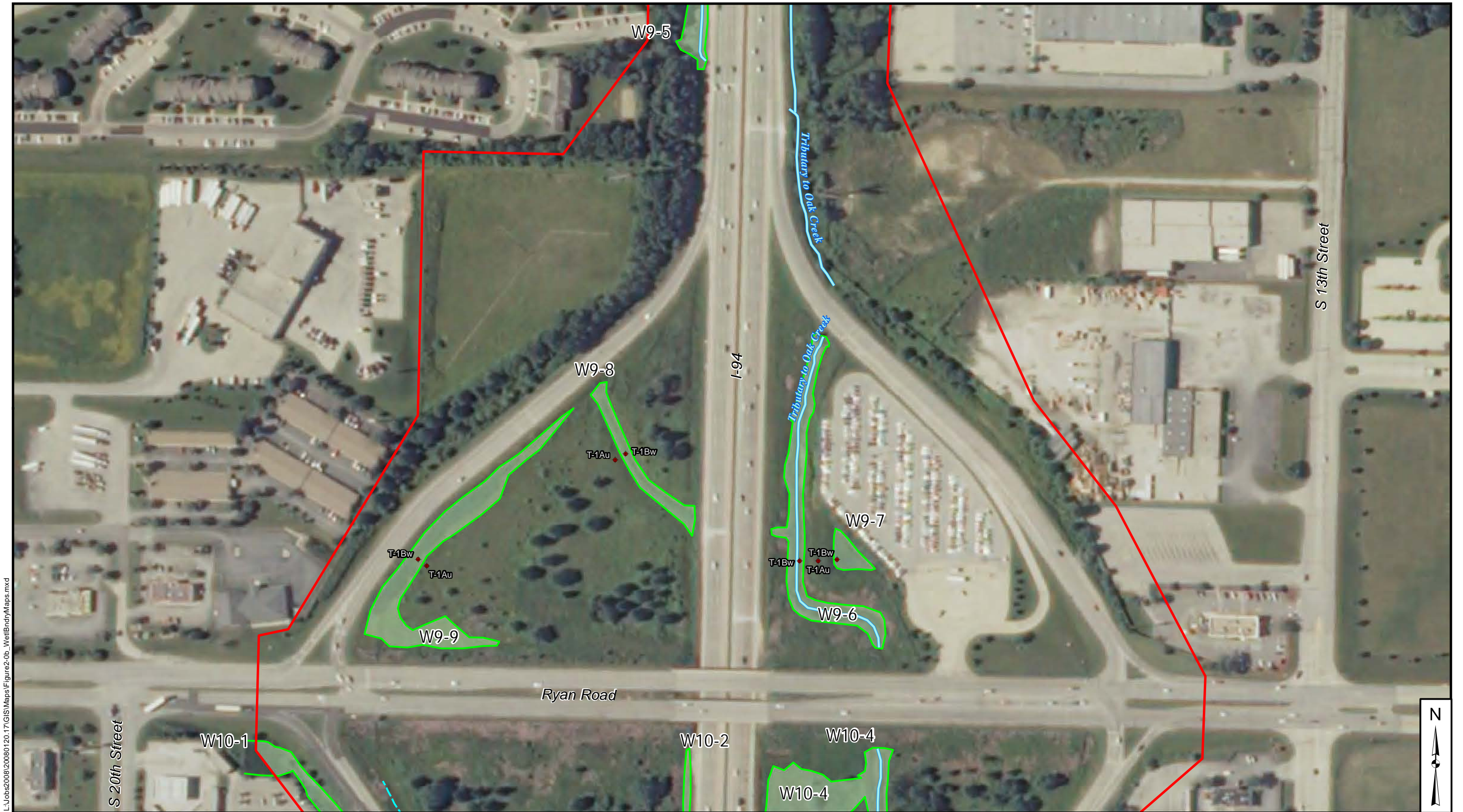
- ~ Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

PROJ. NUMBER: 2008-0120.17
DATE: 01-05-2010
PROJECT MGR: ECP
DRAWN BY: CMV
SCALE: 1" = 200'
REVISED:

WETLAND BOUNDARY MAP
WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.19



L:\Jobs\2008\20080120\17\GIS\Maps\Figure2-0b_WetBoundaryMaps.mxd



- Study Boundary
- ~ Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

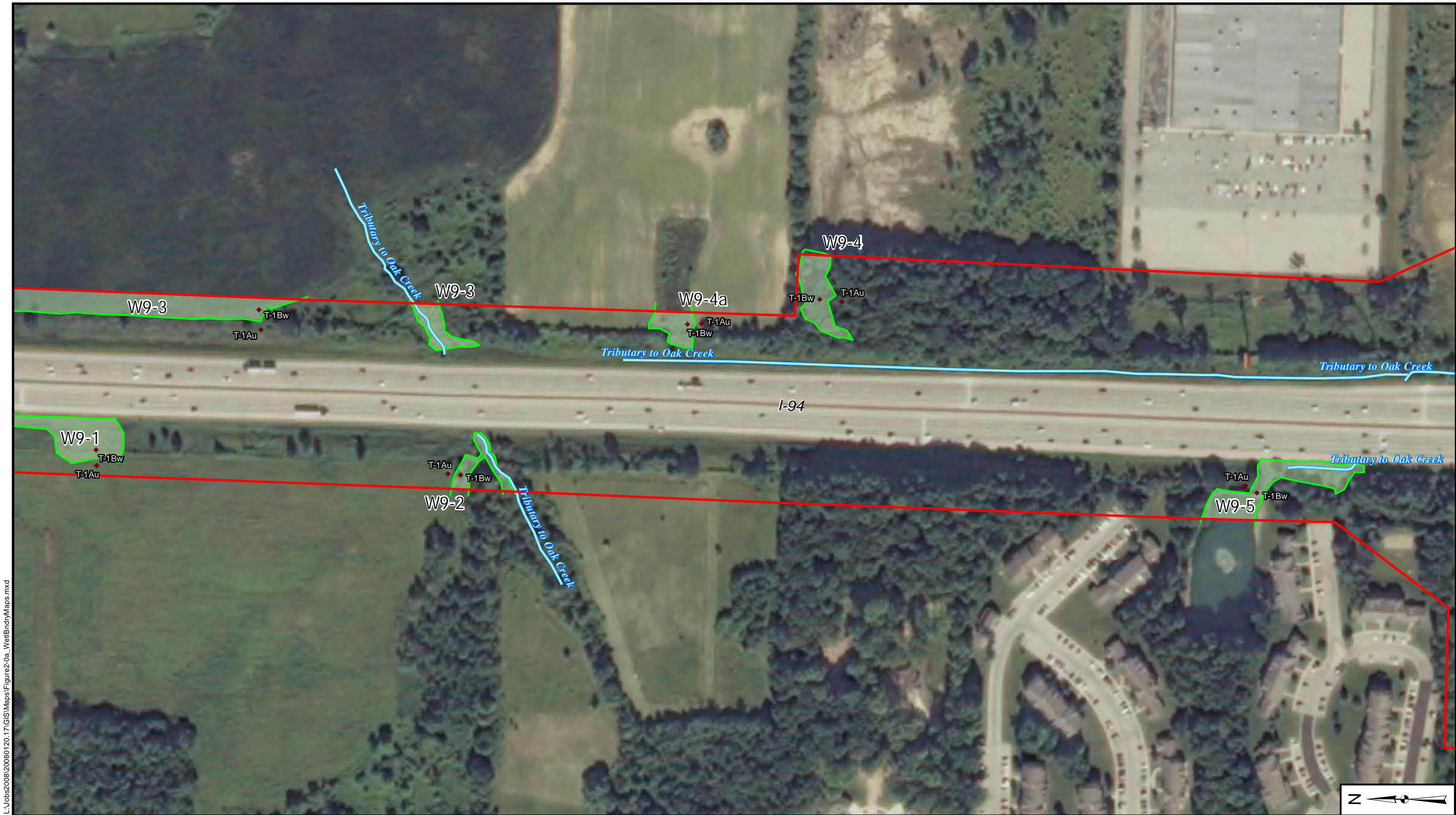
- ~ Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
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SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

PROJ. NUMBER: 2008-0120.17
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SCALE: 1" = 200'
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WETLAND BOUNDARY MAP
WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.20



L:\Jobs\2008\20080120.17\GIS\Maps\Figure2-0a_WetBoundaryMaps.mxd



- Study Boundary
- ~ Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

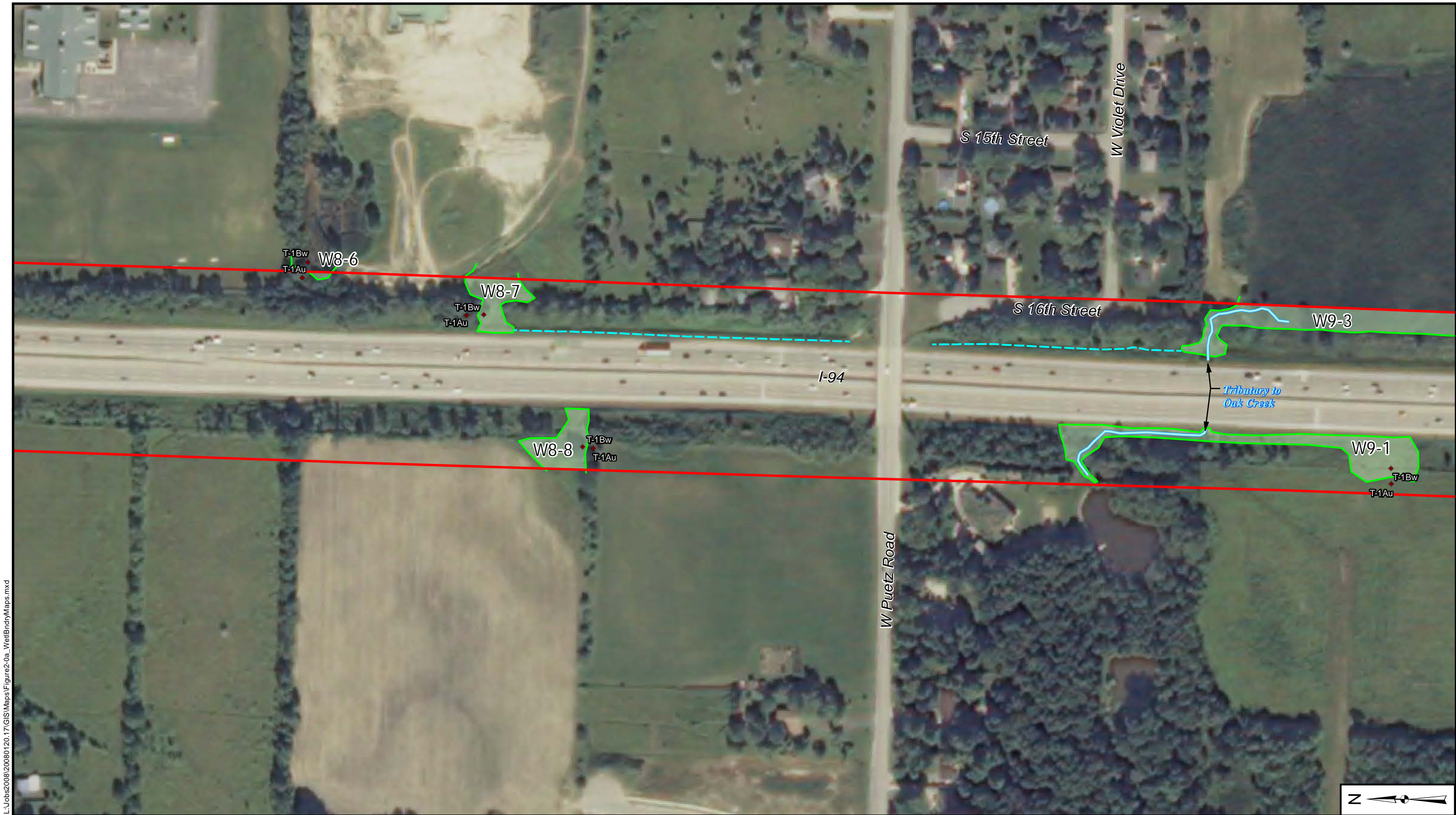
- ~ Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

PROJ. NUMBER: 2008-0120.17
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WETLAND BOUNDARY MAP
WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.21



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- Study Boundary
- Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

- Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

PROJ. NUMBER: 2008-0120.17
DATE: 01-05-2010
PROJECT MGR: ECP
DRAWN BY: CMV
SCALE: 1" = 200'
REVISED:

WETLAND BOUNDARY MAP

**WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00**

FIGURE 2.22



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- Study Boundary
- Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

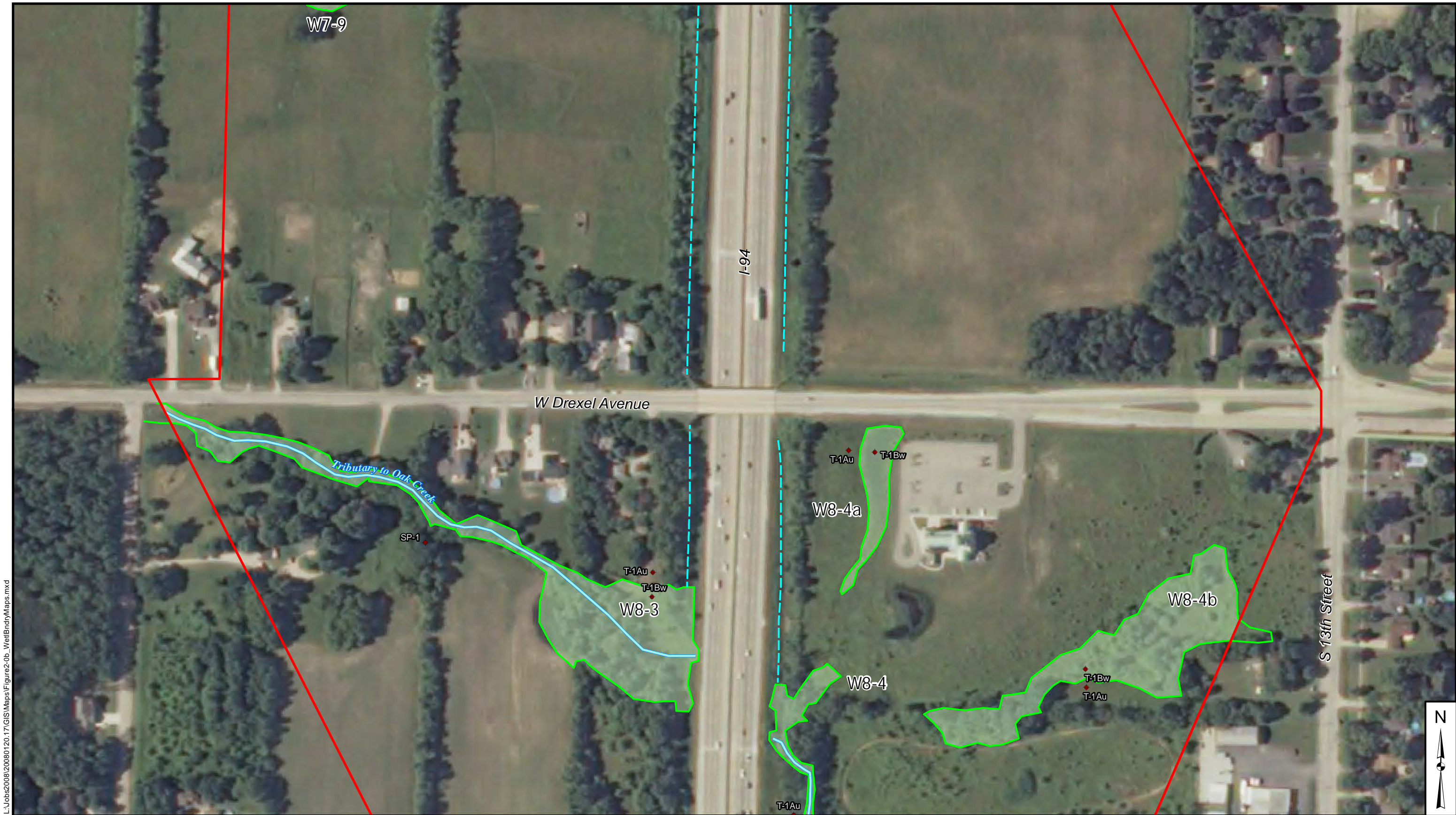
- Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

PROJ. NUMBER: 2008-0120.17
DATE: 01-05-2010
PROJECT MGR: ECP
DRAWN BY: CMV
SCALE: 1" = 200'
REVISED:

WETLAND BOUNDARY MAP
WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.23



L:\Jobs\2008\20080120.17\GIS\Maps\Figure2-0b_WetBoundaryMaps.mxd



- Study Boundary
- Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

- Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

PROJ. NUMBER: 2008-0120.17
DATE: 01-05-2010
PROJECT MGR: ECP
DRAWN BY: CMV
SCALE: 1" = 200'
REVISED:

WETLAND BOUNDARY MAP
WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.24

L:\Jobs\2008\20080120.17\GIS\Maps\Figure2-0b_WetBoundaryMaps.mxd



- Study Boundary
- Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

- Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
2008 AIR PHOTOS MILWAUKEE AND RACINE COUNTY

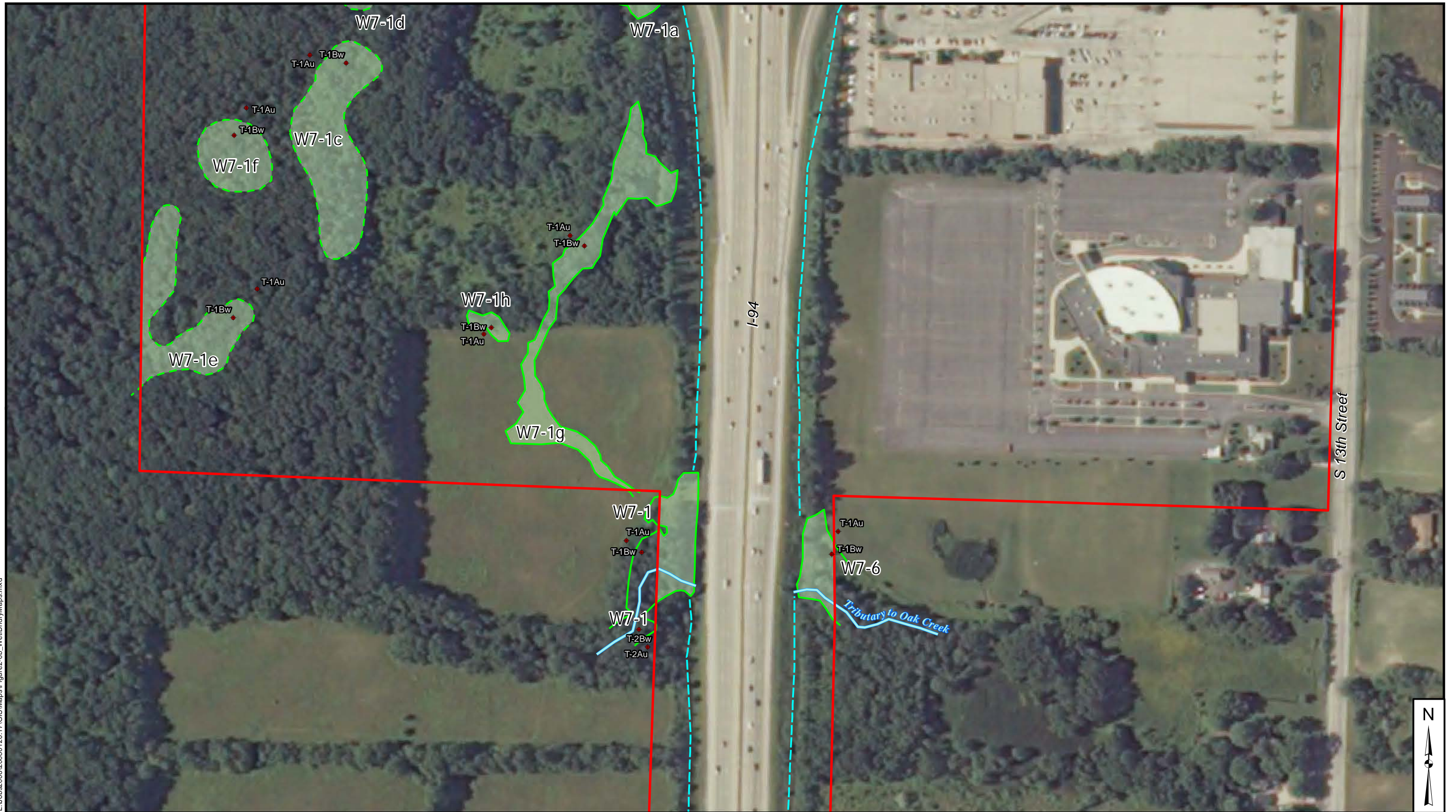
PROJ. NUMBER: 2008-0120.17
DATE: 01-05-2010
PROJECT MGR: ECP
DRAWN BY: CMV
SCALE: 1" = 200'
REVISED:

WETLAND BOUNDARY MAP

WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.25

L:\Jobs\2008\20080120.17\GIS\Maps\Figure2-0b_WetBoundaryMaps.mxd



- Study Boundary
- Jurisdictional Waterway
- Non-Jurisdictional Ditch

Legend

- Wetland Boundary Field-Delineated (Surveyed)
- Wetland Boundary Inferred (Not Surveyed)
- Wetland Area

SOURCE: USDA, NAIP, FARM SERVICE AGENCY,
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SCALE: 1" = 200'
REVISED:

WETLAND BOUNDARY MAP
WETLAND AND WATERWAY INVESTIGATION
IH-94 MAINLINE
MILWAUKEE AND RACINE COUNTIES, WISCONSIN
WISDOT ID: 1030-20-00

FIGURE 2.26

APPENDIX C

2009 Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 10/27/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W7-1 T-1 A(u)
 Investigator(s): Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex
 Slope (%): 1-4% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Morley silt loam (MzdB2) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes *X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

*** The WETS Analysis indicates that weather conditions have been normal in recent months. This area, however, has received several inches of precipitation within the last two weeks.**

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>30 ft. radius</u>)				Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)	
1. <u>Prunus serotina</u>	<u>5%</u>	<u>Yes</u>	<u>FACU</u>	Prevalence Index Worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____	
2. _____	_____	_____	_____		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
5. _____	<u>5%</u>	= Total Cover	_____		
Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)				Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
1. <u>Lonicera xbella</u>	<u>5%</u>	<u>Yes</u>	<u>FACU</u>		
2. <u>Rubus occidentalis</u>	<u>5%</u>	<u>Yes</u>	<u>UPL</u>		
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		
Herb Stratum (Plot Size: <u>5 ft. radius</u>)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	
1. <u>Bromus inermis</u>	<u>85%</u>	<u>Yes</u>	<u>UPL</u>		
2. <u>Solidago canadensis</u>	<u>20%</u>	<u>No</u>	<u>FACU</u>		
3. <u>Phalaris arundinacea</u>	<u>2%</u>	<u>No</u>	<u>FACW</u>		
4. _____	_____	_____	_____		
Woody Vine Stratum (Plot Size: <u>N/A</u>)					
1. <u>N/A</u>	_____	_____	_____		
2. _____	<u>0%</u>	= Total Cover	_____		

Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community located near a riparian corridor.

SOIL

Sampling Point: **W7-1 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 3/2	100	None				Silty clay loam	
10-12	10YR 4/2	100	None				Clay loam	
12-22	10YR 4/3	90	None				Clay loam	Trace sand observed
12-22	10YR 4/2	10	None				Clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: <u>IH-94 Mainline</u>	City/County: <u>Oak Creek/ Milwaukee</u>	Sampling Date: <u>10/27/2009</u>
Applicant/Owner: <u>WDOT</u>	State: <u>WI</u>	Sampling Point: <u>W7-1 T-1 B(w)</u>
Investigator(s): <u>Rachel E. Lang / Julie A. Paschal</u>	Section, Township, Range: <u>Section 7, T5N R22E</u>	
Landform (hillslope, terrace, etc.): <u>Multiple drainage paths</u>	Local relief (concave, convex, none): <u>Concave</u>	
Slope (%): <u>0-1%</u> Lat: <u>See Fig. 2</u> Long: <u>See Fig. 2</u>	Datum: <u>NA</u>	
Soil Map Unit Name: <u>Ashkum silty clay loam (AtA)</u>	WWI Classification: <u>T3K</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>*X</u> No _____ (if no, explain in Remarks)		
Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No _____		
Are Vegetation _____ Soil _____ or Hydrology <u>**X</u> naturally problematic? (if needed, explain any answers in Remarks)		

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	within a Wetland?
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: * The WETS Analysis indicates that weather conditions have been normal in recent months. This area, however, has received several inches of precipitation within the last two weeks. ** This wetland experiences seasonal hydrology.	

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Fraxinus pennsylvanica</u></td><td><u>80%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Ulmus americana</u></td><td><u>20%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>100%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>Prunus virginiana</u></td><td><u>25%</u></td><td><u>Yes</u></td><td><u>FAC</u></td></tr> <tr><td>2. <u>Viburnum opulus</u></td><td><u>25%</u></td><td><u>Yes</u></td><td><u>UPL</u></td></tr> <tr><td>3. <u>Rhamnus cathartica</u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>55%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>Aster lateriflorus</u></td><td><u>10%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Alliaria petiolata</u></td><td><u>20%</u></td><td><u>Yes</u></td><td><u>FAC</u></td></tr> <tr><td>3. <u>Geum canadense</u></td><td><u>30%</u></td><td><u>Yes</u></td><td><u>FAC</u></td></tr> <tr><td>4. <u>Solidago gigantea</u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>6. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>7. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>8. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>9. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>10. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>65%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <tbody> <tr><td>1. <u>N/A</u></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>0%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>Fraxinus pennsylvanica</u>	<u>80%</u>	<u>Yes</u>	<u>FACW</u>	2. <u>Ulmus americana</u>	<u>20%</u>	<u>No</u>	<u>FACW</u>	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	<u>100%</u> = Total Cover								1. <u>Prunus virginiana</u>	<u>25%</u>	<u>Yes</u>	<u>FAC</u>	2. <u>Viburnum opulus</u>	<u>25%</u>	<u>Yes</u>	<u>UPL</u>	3. <u>Rhamnus cathartica</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	4. _____	_____	_____	_____	5. _____	_____	_____	_____	<u>55%</u> = Total Cover								1. <u>Aster lateriflorus</u>	<u>10%</u>	<u>No</u>	<u>FACW</u>	2. <u>Alliaria petiolata</u>	<u>20%</u>	<u>Yes</u>	<u>FAC</u>	3. <u>Geum canadense</u>	<u>30%</u>	<u>Yes</u>	<u>FAC</u>	4. <u>Solidago gigantea</u>	<u>5%</u>	<u>No</u>	<u>FACW</u>	5. _____	_____	_____	_____	6. _____	_____	_____	_____	7. _____	_____	_____	_____	8. _____	_____	_____	_____	9. _____	_____	_____	_____	10. _____	_____	_____	_____	<u>65%</u> = Total Cover				1. <u>N/A</u>	_____	_____	_____	2. _____	_____	_____	_____	<u>0%</u> = Total Cover				<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>5</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80%</u> (A/B)</p> <p>Prevalence Index Worksheet:</p> <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50% <u>_____</u> Prevalence Index is ≤ 3.0¹ <u>_____</u> Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) <u>_____</u> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
	Absolute % Cover	Dominant Species	Indicator Status																																																																																																																																		
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Remarks: (Include photo numbers here or on a separate sheet.)
This is a wet to wet mesic woods and drainageway.

SOIL

Sampling Point: **W7-1 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 3/1	100	10YR 4/6	10%	C	M	Silty clay loam	
10-21	10YR 4/1	100	10YR 4/6	10%	C	M	Clay loam	
			10YR 4/4	10%	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

Redox features observed from 7-21 inches.**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This sample point is located within wet to wet mesic woodlands with standing water in some drainage paths leading to the adjacent tributary of Oak Creek.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 10/14/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W7-6 T-1 A(u)
 Investigator(s): Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E
 Landform (hillslope, terrace, etc.): Slight hillslope Local relief (concave, convex, none): Convex
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation **X Soil ***X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	

Remarks:

* The WETS Analysis indicates that recent weather conditions have been drier than normal.

** Vegetation has been disturbed - this is a mowed lawn plant community.

*** Soils potentially contain fill material as this is a mowed lawn.

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>N/A</u>)				Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)	
Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)				Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u>90%</u> x 3 = <u>270</u> FACU species <u>20%</u> x 4 = <u>80</u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u>110%</u> (A) <u>350</u> (B) Prevalence Index = B/A = <u>3.18</u>	
Herb Stratum (Plot Size: <u>5 ft. radius</u>)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u> </u> Prevalence Index is ≤ 3.0 ¹ <u> </u> Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot Size: <u>N/A</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	

Remarks: (Include photo numbers here or on a separate sheet.)

The plant community in this area has been altered. This is a mowed lawn plant community dominated by *Poa pratensis*, a planted FAC- species. The Dominance Test is met; however, the Prevalence Index and the FAC Neutral Test are not met. Professional judgement indicates this is a non-hydrophytic plant community.

SOIL

Sampling Point: **W7-6 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	100	None				Silty clay loam	
16-20	10YR 2/2	100	None				Clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: None

Depth (inches): None

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Possible fill material and grading occurred in this lawn area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <input type="text"/>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This sample point is located upslope from the adjacent wetland. No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 10/14/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W7-6 T-1 B(w)
 Investigator(s): Rachel E. Lang / Julie A. Paschal Section, Township, Range: Section 7, T5N R22E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: T3/E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology **X naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: * The WETS Analysis indicates that recent weather conditions have been drier than normal. ** This wetland experiences seasonal hydrology. This is a wet meadow wetland with an adjacent shallow marsh.			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:40%;"></th> <th style="width:15%;">Absolute % Cover</th> <th style="width:20%;">Dominant Species</th> <th style="width:25%;">Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Salix alba</u></td><td align="center"><u>5%</u></td><td align="center"><u>No</u></td><td align="center"><u>FACW</u></td></tr> <tr><td>2. <u>Populus deltoides</u></td><td align="center"><u>10%</u></td><td align="center"><u>Yes</u></td><td align="center"><u>FAC</u></td></tr> <tr><td>3. <u>Fraxinus pennsylvanica</u></td><td align="center"><u>20%</u></td><td align="center"><u>Yes</u></td><td align="center"><u>FACW</u></td></tr> <tr><td>4. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u> </u></td><td></td><td></td><td></td></tr> <tr><td></td><td align="center"><u>35%</u></td><td align="center"><u>= Total Cover</u></td><td></td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)</p> <table style="width:100%; 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Remarks: (Include photo numbers here or on a separate sheet.)

This is a wet meadow plant community located near the edge of the adjacent shallow marsh.

SOIL

Sampling Point: **W7-6 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 3/2	100	10YR 4/6	10%	C	M	Silty clay loam	
16-22	10YR 2/1	100	10YR 4/6	20%	C	M	Silty clay loam	Small limestone pebbles present

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

Redox features begin at 4 inches.**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>1.5</u>
Water Table Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0</u>
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0</u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This is a depressional wetland located along a perennial waterway that is tributary to Oak Creek.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: <u>IH-94 Mainline</u>	City/County: <u>Oak Creek/ Milwaukee</u>	Sampling Date: <u>9/23/2009</u>
Applicant/Owner: <u>WDOT</u>	State: <u>WI</u>	Sampling Point: <u>W8-6 T-1 A(u)</u>
Investigator(s): <u>Eric C. Parker / Julie A. Paschal</u>	Section, Township, Range: <u>Section 17, T5N R22E</u>	
Landform (hillslope, terrace, etc.): <u>Slight hillslope</u>	Local relief (concave, convex, none): <u>Convex</u>	
Slope (%): <u>5-7%</u> Lat: <u>See Fig. 2</u> Long: <u>See Fig. 2</u>	Datum: <u>NA</u>	
Soil Map Unit Name: <u>Blount silt loam (BIA)</u>	WWI Classification: <u>None</u>	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u> </u> No <u>*X</u> (if no, explain in Remarks)		
Are Vegetation <u> </u> Soil <u> </u> or Hydrology <u> </u> significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No <u> </u>		
Are Vegetation <u> </u> Soil <u> </u> or Hydrology <u> </u> naturally problematic? (if needed, explain any answers in Remarks)		

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	Hydric Soil Present? Yes <u> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>		
Remarks: * The WETS Analysis indicates that recent weather conditions have been drier than normal.		

VEGETATION - Use scientific names for plants.

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Remarks: (Include photo numbers here or on a separate sheet.)

Bare ground constitutes approximately 50-60% of the herbaceous stratum due to a dense tree and shrub canopy. This is an upland, woodland plant community.

SOIL

Sampling Point: **W8-6 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-3	10YR 3/2	100	None				Silt loam	
3-6	10YR 3/1	100	None				Silty clay loam	
6-12	10YR 5/2	100	10YR 4/3	2%	C	M	Silty clay	
12-18	10YR 5/3	100	10YR 4/4	5%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This sample point is located on a slight hillslope at a higher elevation in the topography than the adjacent wetland. No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/23/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W8-6 T-1 B(w)
 Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: T3/E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	

Remarks:

*** The WETS Analysis indicates that recent weather conditions have been drier than normal.**

This is a shallow marsh dominated by *Typha spp.*

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>N/A</u>)				Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67%</u> (A/B)	
Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)				Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>	
Herb Stratum (Plot Size: <u>5 ft. radius</u>)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u> </u> Prevalence Index is ≤ 3.0 ¹ <u> </u> Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot Size: <u>15 ft. radius</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	

Remarks: (Include photo numbers here or on a separate sheet.)

This is a shallow marsh plant community.

SOIL

Sampling Point: **W8-6 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 3/1	100	5YR 5/8	10%	C	M/PL	Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
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Indicators for Problematic Hydric Soils³:

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<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
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Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
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<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/23/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W8-7 T-1 A(u)
 Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E
 Landform (hillslope, terrace, etc.): Slight hillslope Local relief (concave, convex, none): Convex
 Slope (%): 3-5% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation Soil or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No **X
 Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	
Remarks: * The WETS Analysis indicates that recent weather conditions have been drier than normal. **This field is currently under construction. However the immediate area surrounding this sample point has not yet been altered.			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u> </u></td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center" colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>3. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>4. <u> </u></td><td></td><td></td><td></td></tr> <tr><td>5. <u> </u></td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center" colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%; 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Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community.

SOIL

Sampling Point: **W8-7 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR 3/2	100	None				Silt loam	
10-18	10YR 3/1	100	None				Silty clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/23/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W8-7 T-1 B(w)
 Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 17, T5N R22E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: E2Ka
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation Soil or Hydrology **X significantly disturbed? Are "Normal Circumstances" present? Yes No ***X
 Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	

Remarks:

* **The WETS Analysis indicates that recent weather conditions have been drier than normal.**
 ** **Hydrology is disturbed in the vicinity of this sample point due to disturbance from current construction. Portions of this wetland exhibit disturbed vegetation, soils, and hydrology due to construction.**
 *** **Normal circumstances are not present - this field is currently under construction.**

This is a wet meadow wetland.

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>N/A</u>)				Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)			
Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)				Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u> </u> x 3 = <u> </u> FACU species <u> </u> x 4 = <u> </u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u> </u> (A) <u> </u> (B) Prevalence Index = B/A = <u> </u>			
Herb Stratum (Plot Size: <u>5 ft. radius</u>)				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% <u> </u> Prevalence Index is ≤ 3.0 ¹ <u> </u> Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Woody Vine Stratum (Plot Size: <u>N/A</u>)				Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>			

Remarks: (Include photo numbers here or on a separate sheet.)

This is a *Phalaris arundinacea* dominated wet meadow.

SOIL

Sampling Point: **W8-7 T-1 B(w)**

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features				Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	
0-14	10YR 3/1	100	None				Silty clay loam
14-18	10YR 5/3	100	7.5YR 4/6	5%	C	M	Silty clay loam
			7.5YR 2.5/1	5%	D	M	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input checked="" type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Other (Explain in Remarks)
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³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: <u>N/A</u> Depth (inches): <u>N/A</u>	Hydric Soil Present? Yes <u>X</u> No <u> </u>
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Remarks:
Blocky soil structure. Soils are dry.

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		

Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W8-8 T-1 A(u)
 Investigator(s): Marcus S. Anderson Section, Township, Range: Section 18, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex
 Slope (%): 5-10% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation *X Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: * Vegetation is naturally problematic due to a dominance of <i>Poa pratensis</i>, a FAC- species commonly found in planted, mowed lawns as is the case here.			

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. _____ 3. _____ 4. _____ 5. _____ Absolute % Cover: <u>0%</u> = Total Cover	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)
Sapling/Shrub Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. _____ 3. _____ 4. _____ 5. _____ Absolute % Cover: <u>0%</u> = Total Cover	
Herb Stratum (Plot Size: <u>5 ft. radius</u>) 1. <u><i>Poa pratensis</i></u> <u>60%</u> <u>Yes</u> <u>FAC</u> 2. <u><i>Taraxacum officinale</i></u> <u>40%</u> <u>Yes</u> <u>FACU</u> 3. <u><i>Plantago major</i></u> <u>5%</u> <u>No</u> <u>FAC</u> 4. <u><i>Phleum pratense</i></u> <u>20%</u> <u>No</u> <u>FACU</u> 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ Absolute % Cover: <u>125%</u> = Total Cover	
Woody Vine Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. _____ Absolute % Cover: <u>0%</u> = Total Cover	
Prevalence Index Worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species <u>65%</u> x 3 = <u>195</u> FACU species <u>60%</u> x 4 = <u>240</u> UPL species _____ x 5 = _____ Column Totals: <u>125%</u> (A) <u>435</u> (B) Prevalence Index = B/A = <u>3.48</u>	
Hydrophytic Vegetation Indicators: _____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	

Remarks: (Include photo numbers here or on a separate sheet.)

Vegetation is problematic due to a dominance of *Poa pratensis*, a FAC- species. However the Dominance Test, Prevalence Index, and FAC Neutral Test are not met which confirms that this is an upland plant community.

SOIL

Sampling Point: **W8-8 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/3	100	None				Silt loam	
9-18	10YR 3/2	100	None				Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W8-8 T-1 B(w)
 Investigator(s): Marcus S. Anderson Section, Township, Range: Section 18, T5N R22E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: E2Ka
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks:			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Salix fragilis</u></td><td><u>40%</u></td><td><u>Yes</u></td><td><u>FAC</u></td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>40%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr><td>1. <u>N/A</u></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>0%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%; 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Yes <u>X</u> No _____</p>	Total % Cover of:	Multiply by:	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____
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Remarks: (Include photo numbers here or on a separate sheet.)

This is a wet meadow plant community.

SOIL

Sampling Point: **W8-8 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	100	None				Silt loam	
6-18	10YR 3/1	100	10YR 4/6	2%	C	M	Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
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<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
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<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-1 T-1 A(u)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks:			

VEGETATION - Use scientific names for plants.

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Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community.

SOIL

Sampling Point: **W9-1 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	100	None				Silty clay loam	
6-16	10YR 4/2	100	None				Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: Silty clay

Depth (inches): 6

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed. Conditions are dry.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-1 T-1 B(w)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks:			

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Remarks: (Include photo numbers here or on a separate sheet.)

This is a wet meadow plant community.

SOIL

Sampling Point: **W9-1 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/2	100	None				Silty clay loam	
8-18	10YR 4/1	100	10YR 4/6	20%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: Silty clay

Depth (inches): 8

Hydric Soil Present? Yes X No

Remarks:

Soils are dry.**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-2 T-1 A(u)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 4% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks:			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Juglans nigra</u></td><td><u>5%</u></td><td><u>Yes</u></td><td><u>FACU</u></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. 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Column Totals:		<u>147%</u> (A) <u>564</u> (B)																																																																																																																																												

Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community.

SOIL

Sampling Point: **W9-2 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	100	None				Silt loam	
8-18	10YR 5/3	100	10YR 4/4	2%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils are dry.**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Conditions are dry.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: <u>IH-94 Mainline</u>	City/County: <u>Oak Creek/ Milwaukee</u>	Sampling Date: <u>9/17/2009</u>
Applicant/Owner: <u>WDOT</u>	State: <u>WI</u>	Sampling Point: <u>W9-2 T-1 B(w)</u>
Investigator(s): <u>Eric C. Parker</u>	Section, Township, Range: <u>Section 19, T5N R22E</u>	
Landform (hillslope, terrace, etc.): <u>Hillslope</u>	Local relief (concave, convex, none): <u>None</u>	
Slope (%): <u>2%</u>	Lat: <u>See Fig. 2</u>	Long: <u>See Fig. 2</u>
Soil Map Unit Name: <u>Blount silt loam (BIA)</u>	Datum: <u>NA</u>	
WWI Classification: <u>T3/E2K</u>		
Are climatic / hydrologic conditions on the site typical for this time of year? Yes <u>X</u> No _____ (if no, explain in Remarks)		
Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes <u>X</u> No _____		
Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)		

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes <u>X</u>	No _____	Yes <u>X</u> No _____
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks:			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Salix amygdaloides</u></td><td><u>20%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>20%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>Cornus amomum</u></td><td><u>5%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>5%</u> = Total Cover</td><td colspan="2"></td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>Phalaris arundinacea</u></td><td><u>90%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Cirsium arvense</u></td><td><u>2%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>3. <u>Sonchus arvensis</u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FAC</u></td></tr> <tr><td>4. <u>Solidago canadensis</u></td><td><u>10%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>5. <u>Aster 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Species	Indicator Status	1. <u>Salix amygdaloides</u>	<u>20%</u>	<u>Yes</u>	<u>FACW</u>	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	<u>20%</u> = Total Cover								1. <u>Cornus amomum</u>	<u>5%</u>	<u>Yes</u>	<u>FACW</u>	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	<u>5%</u> = Total Cover								1. <u>Phalaris arundinacea</u>	<u>90%</u>	<u>Yes</u>	<u>FACW</u>	2. <u>Cirsium arvense</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>	3. <u>Sonchus arvensis</u>	<u>5%</u>	<u>No</u>	<u>FAC</u>	4. <u>Solidago canadensis</u>	<u>10%</u>	<u>No</u>	<u>FACU</u>	5. <u>Aster firmus</u>	<u>2%</u>	<u>No</u>	<u>FACW</u>	6. _____	_____	_____	_____	7. _____	_____	_____	_____	8. _____	_____	_____	_____	9. _____	_____	_____	_____	10. _____	_____	_____	_____	<u>109%</u> = Total Cover								1. <u>Parthenocissus quinquefolia</u>	<u>2%</u>	<u>No</u>	<u>FAC</u>	2. _____	_____	_____	_____	<u>2%</u> = 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<hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50%</p> <p><u>X</u> Prevalence Index is ≤ 3.0¹</p> <p>_____ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet)</p> <p>_____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:		Multiply by:		OBL species	_____	x 1 =	_____	FACW species	<u>117%</u>	x 2 =	<u>234</u>	FAC species	<u>7%</u>	x 3 =	<u>21</u>	FACU species	<u>12%</u>	x 4 =	<u>48</u>	UPL species	_____	x 5 =	_____	Column Totals:	<u>136%</u> (A)		<u>303</u> (B)
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Remarks: (Include photo numbers here or on a separate sheet.)

This is a wet meadow/shrub scrub plant community.

SOIL

Sampling Point: **W9-2 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-12	10YR 2/1	100	None				Silt loam	
12-20	10YR 3/1	100	10YR 4/4	20%	C	M	Silty clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: **N/A**

Depth (inches): **N/A**

Hydric Soil Present? Yes **X** No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
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Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
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<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No X	Depth (inches):
Water Table Present?	Yes	No X	Depth (inches):
Saturation Present? (includes capillary fringe)	Yes	No X	Depth (inches):

Wetland Hydrology Present? Yes **X** No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Conditions are dry.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-3 T-1 A(u)
 Investigator(s): Tina M. Myers Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 50% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil *X or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>**X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

* This sample point is located on a road embankment - soils are disturbed due to the presence of fill material.
 ** The plant community is a mixture of hydrophytic and non-hydrophytic vegetation due to disturbed conditions.

This upland sample point is located on a steep road embankment.

VEGETATION - Use scientific names for plants.

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Remarks: (Include photo numbers here or on a separate sheet.)

The vegetation is reflective of disturbed upland conditions as opposed to wetland conditions.

SOIL

Sampling Point: **W9-3 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	100	None				Silt loam	
8-18	10YR 3/2	40	None				Silty clay loam	Mixed matrix
8-18	10YR 2/1	40	None				Silty clay loam	Mixed matrix
8-18	10YR 4/1	20	None				Silty clay loam	Mixed matrix

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

This area is within a road embankment - fill material/mixed matrix present. Numerous soil colors were observed within the soil profile due to the presence of fill material. The soils are dry at this time - there has been no precipitation in approximately 2 weeks.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Except for passing the FAC Neutral Test, no wetland hydrology indicators observed. This is a well drained, steep slope with disturbed conditions.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-3 T-1 B(w)
 Investigator(s): Julie A. Paschal Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Houghton muck (HtA) WWI Classification: E2H
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This is a shallow marsh wetland connected to a waterway tributary to Oak Creek.			

VEGETATION - Use scientific names for plants.

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Column Totals:	(A) _____ (B) _____																																																																																																																																						

Remarks: (Include photo numbers here or on a separate sheet.)

This is a *Typha spp.* dominated shallow marsh wetland.

SOIL

Sampling Point: **W9-3 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 3/1	100	None				Silt loam	
18-23	10YR 5/2	100	10YR 4/6	5%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: Silty clay

Depth (inches): 18

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Light tones (*Phalaris arundinacea* and *Typha spp.*) visible on aerial.

Remarks:

This area is at a lower elevation in the topograhly than the adjacent farmed fields. This wetland is connected to a waterway that is tributary to Oak Creek.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-4 T-1 A(u)
 Investigator(s): Julie A. Paschal/Tina M. Myers Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 3% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Morley silt loam (MzdD2) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u>X</u>	Is the Sampled Area Yes _____ No <u>X</u>
Hydric Soil Present? Yes _____ No <u>X</u>	within a Wetland?
Wetland Hydrology Present? Yes _____ No <u>X</u>	
Remarks:	

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Tilia americana</u></td><td><u>40%</u></td><td><u>Yes</u></td><td><u>FACU</u></td></tr> <tr><td>2. <u>Juglans nigra</u></td><td><u>40%</u></td><td><u>Yes</u></td><td><u>FACU</u></td></tr> <tr><td>3. <u>Acer saccharum</u></td><td><u>35%</u></td><td><u>Yes</u></td><td><u>FACU</u></td></tr> <tr><td>4. <u>Ulmus americana</u></td><td><u>3%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td colspan="2"><u>118%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>Prunus 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_____	_____	_____	_____	<u>98%</u>		= Total Cover		1. <u>N/A</u>	_____	_____	_____	2. _____	_____	_____	_____	<u>0%</u>		= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>5</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40%</u> (A/B)</p> <p>Prevalence Index Worksheet:</p> <table border="1" style="width:100%"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td>_____</td></tr> <tr><td>FACW species</td><td>x 2 =</td><td><u>12</u></td></tr> <tr><td>FAC species</td><td>x 3 =</td><td><u>294</u></td></tr> <tr><td>FACU species</td><td>x 4 =</td><td><u>468</u></td></tr> <tr><td>UPL species</td><td>x 5 =</td><td><u>25</u></td></tr> <tr><td>Column Totals:</td><td></td><td><u>226%</u> (A) <u>799</u> (B)</td></tr> </tbody> </table> <p>Prevalence Index = B/A = <u>3.53</u></p> <p>Hydrophytic Vegetation Indicators:</p> <p>_____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0¹ _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Hydrophytic Vegetation Present? Yes _____ No <u>X</u></p>	Total % Cover of:	Multiply by:		OBL species	x 1 =	_____	FACW species	x 2 =	<u>12</u>	FAC species	x 3 =	<u>294</u>	FACU species	x 4 =	<u>468</u>	UPL species	x 5 =	<u>25</u>	Column Totals:		<u>226%</u> (A) <u>799</u> (B)
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Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, woodland plant community.

SOIL

Sampling Point: **W9-4 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 3/1	100	None				Silt loam	
7-18	10YR 4/3	100	None				Silty clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
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Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
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<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-4 T-1 B(w)
 Investigator(s): Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Morley silt loam (MzdD2) WWI Classification: Wetland smaller than 2 acres
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: <p align="center">This is a wooded swamp.</p>			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u><i>Ulmus americana</i></u></td><td align="center"><u>50%</u></td><td align="center"><u>Yes</u></td><td align="center"><u>FACW</u></td></tr> <tr><td>2. <u><i>Fraxinus pennsylvanica</i></u></td><td align="center"><u>20%</u></td><td align="center"><u>Yes</u></td><td align="center"><u>FACW</u></td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td align="center"><u>70%</u></td><td align="center" colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>15 ft. radius</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u><i>Crataegus mollis</i></u></td><td align="center"><u>5%</u></td><td align="center"><u>Yes</u></td><td align="center"><u>FACW</u></td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td align="center"><u>5%</u></td><td align="center" colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%; 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Remarks: (Include photo numbers here or on a separate sheet.)

Approximately 50% bare ground present due to dense tree canopy and assumed frequent inundation.

SOIL

Sampling Point: **W9-4 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-13	10YR 2/1	100	None				Silt loam	
13-20	10YR 5/2	100	10YR 5/8	10%	C	M	Silty clay loam	Blocky structure

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

Soils are very loose and crumbly.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input checked="" type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Fluted tree trunks also observed within this area. This sample point is within a depressional area within a woodland between IH-94 to the east and a farmed field to the west. This area is at a lower elevation in the topography than the surrounding woodland.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-4a T-1 A(u)
 Investigator(s): Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): ~2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation *X Soil *X or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

*** The vegetation and soils are disturbed due to annual cropping and tilling.**

This is an upland soybean field.

VEGETATION - Use scientific names for plants.

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2. <u>Ambrosia artemisiifolia</u>	<u>2%</u>	<u>No</u>	<u>FACU</u>																																																																																																																																											
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Column Totals:	(A) _____	(B) _____																																																																																																																																												

Remarks: (Include photo numbers here or on a separate sheet.)

The soybean crop in this portion of the field appears healthy and robust.

SOIL

Sampling Point: **W9-4a T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-11	10YR 3/2	100	None				Silt loam	
11-20	2.5Y 6/4	100	10YR 6/8	5%	C	M	Silt	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils appear to be plowed annually.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed. This sample point is located on a very gradual hillslope within a cropped soybean field.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-4a T-1 B(w)
 Investigator(s): Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave
 Slope (%): 2-4% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This is a wet meadow drainage swale.			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Phalaris arundinacea</u></td><td><u>100%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Solidago canadensis</u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>3. <u>Cirsium arvense</u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td>9. _____</td><td></td><td></td><td></td></tr> <tr><td>10. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>110%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>Phalaris arundinacea</u>	<u>100%</u>	<u>Yes</u>	<u>FACW</u>	2. <u>Solidago canadensis</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	3. <u>Cirsium arvense</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	4. _____				5. _____				6. _____				7. _____				8. _____				9. _____				10. _____					<u>110%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____					<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>1</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)</p> <hr/> <p>Prevalence Index Worksheet:</p> <table border="1" style="width:100%"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td>_____</td></tr> <tr><td>FACW species</td><td>x 2 =</td><td>_____</td></tr> <tr><td>FAC species</td><td>x 3 =</td><td>_____</td></tr> <tr><td>FACU species</td><td>x 4 =</td><td>_____</td></tr> <tr><td>UPL species</td><td>x 5 =</td><td>_____</td></tr> <tr><td>Column Totals:</td><td>(A) _____</td><td>(B) _____</td></tr> </tbody> </table> <p>Prevalence Index = B/A = _____</p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50% <u>_____</u> Prevalence Index is ≤ 3.0¹ <u>_____</u> Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) <u>_____</u> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:	Multiply by:		OBL species	x 1 =	_____	FACW species	x 2 =	_____	FAC species	x 3 =	_____	FACU species	x 4 =	_____	UPL species	x 5 =	_____	Column Totals:	(A) _____	(B) _____
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Remarks: (Include photo numbers here or on a separate sheet.)

This is a wet meadow plant community dominated by *Phalaris arundinacea*.

SOIL

Sampling Point: **W9-4a T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 3/2	100	5YR 5/8	10%	C	M	Silt loam	
8-18	10YR 5/6	100	7.5YR 5/8	15%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: Silty clay

Depth (inches): 8

Hydric Soil Present? Yes X No

Remarks:

Increased silt content observed from 8-18 inches. One inch silt seam observed at 8 inches.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
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<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Light tones indicative of *Phalaris arundinacea* observed on aerial. Swale also visible.

Remarks:

This is a drainage swale within a farmed field sloping towards the IH-94 roadside ditch.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-5 T-1 A(u)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex
 Slope (%): 5% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks: <p>This upland area is adjacent to an excavated pond. The site, however, appears to have stabilized some decades ago.</p>			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr> <td>1. <u>Juglans nigra</u></td> <td><u>80%</u></td> <td><u>Yes</u></td> <td><u>FACU</u></td> </tr> <tr> <td>2. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>3. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>4. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>5. _____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td></td> <td><u>80%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <tbody> <tr><td>1. <u>N/A</u></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1"> <tbody> <tr><td>1. <u>Phalaris arundinacea</u></td><td><u>20%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Poa pratensis</u></td><td><u>90%</u></td><td><u>Yes</u></td><td><u>FAC</u></td></tr> <tr><td>3. <u>Arctium minus</u></td><td><u>15%</u></td><td><u>No</u></td><td><u>UPL</u></td></tr> <tr><td>4. <u>Geum canadense</u></td><td><u>15%</u></td><td><u>No</u></td><td><u>FAC</u></td></tr> <tr><td>5. <u>Elytrigia repens</u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>6. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>7. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>8. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>9. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>10. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>145%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <tbody> <tr><td>1. <u>N/A</u></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>Juglans nigra</u>	<u>80%</u>	<u>Yes</u>	<u>FACU</u>	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____		<u>80%</u>	= Total Cover		1. <u>N/A</u>	_____	_____	_____	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____		<u>0%</u>	= Total Cover		1. <u>Phalaris arundinacea</u>	<u>20%</u>	<u>No</u>	<u>FACW</u>	2. <u>Poa pratensis</u>	<u>90%</u>	<u>Yes</u>	<u>FAC</u>	3. <u>Arctium minus</u>	<u>15%</u>	<u>No</u>	<u>UPL</u>	4. <u>Geum canadense</u>	<u>15%</u>	<u>No</u>	<u>FAC</u>	5. <u>Elytrigia repens</u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	6. _____	_____	_____	_____	7. _____	_____	_____	_____	8. _____	_____	_____	_____	9. _____	_____	_____	_____	10. _____	_____	_____	_____		<u>145%</u>	= Total Cover		1. <u>N/A</u>	_____	_____	_____	2. _____	_____	_____	_____		<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)</p> <p>Prevalence Index Worksheet:</p> <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th></th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td>_____</td> <td>x 1 =</td> <td>_____</td> </tr> <tr> <td>FACW species</td> <td><u>20%</u></td> <td>x 2 =</td> <td><u>40</u></td> </tr> <tr> <td>FAC species</td> <td><u>105%</u></td> <td>x 3 =</td> <td><u>315</u></td> </tr> <tr> <td>FACU species</td> <td><u>85%</u></td> <td>x 4 =</td> <td><u>340</u></td> </tr> <tr> <td>UPL species</td> <td><u>15%</u></td> <td>x 5 =</td> <td><u>75</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>225%</u> (A)</td> <td></td> <td><u>770</u> (B)</td> </tr> </tbody> </table> <p>Prevalence Index = B/A = <u>3.42</u></p> <p>Hydrophytic Vegetation Indicators:</p> <p>_____ Dominance Test is >50% _____ Prevalence Index is ≤ 3.0¹ _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Hydrophytic Vegetation Present? 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Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, mowed lawn plant community. Small quantities of *Phalaris arundinacea* present due to proximity to adjacent wetland.

SOIL

Sampling Point: **W9-5 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/2	100	None				Silt loam	
6-12	10YR 3/2	75	None				Silt loam	
6-12	10YR 4/2	25	None				Silty clay loam	
12-18	10YR 5/3	100	10YR 4/4	2%	C	M	Silty clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils are dry.**HYDROLOGY****Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-5 T-1 B(w)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave
 Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: W0Hx directly west of sample point
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Remarks:

This is a *Phalaris arundinacea* dominated wet meadow fringe along an excavated pond. This wetland extends into the ditch along I-94.

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. _____ 3. _____ 4. _____ 5. _____ Absolute % Cover: <u>0%</u> = Total Cover				Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)			
Sapling/Shrub Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. _____ 3. _____ 4. _____ 5. _____ Absolute % Cover: <u>0%</u> = Total Cover				Prevalence Index Worksheet: Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____			
Herb Stratum (Plot Size: <u>5 ft. radius</u>) 1. <u><i>Phalaris arundinacea</i></u> <u>100%</u> <u>Yes</u> <u>FACW</u> 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ Absolute % Cover: <u>100%</u> = Total Cover				Hydrophytic Vegetation Indicators: <u>X</u> Dominance Test is >50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.			
Woody Vine Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. _____ Absolute % Cover: <u>0%</u> = Total Cover				Hydrophytic Vegetation Present? Yes <u>X</u> No _____			

Remarks: (Include photo numbers here or on a separate sheet.)

This is a *Phalaris arundinacea* dominated wet meadow fringe along an excavated pond. This wetland extends into the ditch along I-94.

SOIL

Sampling Point: **W9-5 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 2/1	100	None				Silt loam	
8-13	10YR 3/1	100	10YR 4/6	10%	C	PL/M	Silty clay loam	
13-17	10YR 4/1	100	10YR 4/6	15%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: Silty clay

Depth (inches): 13

Hydric Soil Present? Yes X No

Remarks:

Soils are dry.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Conditions are dry.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/9/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-6 T-1 C(w)
 Investigator(s): Julie A. Paschal Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Wetland drainage swale Local relief (concave, convex, none): Concave
 Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: E2H
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: This is a shallow marsh wetland within a drainage area at the Ryan Road interchange.			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>0%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>0%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u><i>Typha angustifolia</i></u></td><td><u>80%</u></td><td><u>Yes</u></td><td><u>OBL</u></td></tr> <tr><td>2. <u><i>Verbena hastata</i></u></td><td><u>10%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>3. <u><i>Bidens frondosa</i></u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACW</u></td></tr> <tr><td>4. <u><i>Phalaris arundinacea</i></u></td><td><u>25%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>5. <u><i>Cirsium arvense</i></u></td><td><u>5%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td>9. _____</td><td></td><td></td><td></td></tr> <tr><td>10. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>125%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>0%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u><i>Typha angustifolia</i></u>	<u>80%</u>	<u>Yes</u>	<u>OBL</u>	2. <u><i>Verbena hastata</i></u>	<u>10%</u>	<u>No</u>	<u>FACW</u>	3. <u><i>Bidens frondosa</i></u>	<u>5%</u>	<u>No</u>	<u>FACW</u>	4. <u><i>Phalaris arundinacea</i></u>	<u>25%</u>	<u>Yes</u>	<u>FACW</u>	5. <u><i>Cirsium arvense</i></u>	<u>5%</u>	<u>No</u>	<u>FACU</u>	6. _____				7. _____				8. _____				9. _____				10. _____					<u>125%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____					<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)</p> <hr/> <p>Prevalence Index Worksheet:</p> <table border="1" style="width:100%"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 = _____</td></tr> <tr><td>FACW species</td><td>x 2 = _____</td></tr> <tr><td>FAC species</td><td>x 3 = _____</td></tr> <tr><td>FACU species</td><td>x 4 = _____</td></tr> <tr><td>UPL species</td><td>x 5 = _____</td></tr> <tr> <td>Column Totals:</td> <td><u>_____</u> (A) <u>_____</u> (B)</td> </tr> </tbody> </table> <p>Prevalence Index = B/A = _____</p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50% <u>_____</u> Prevalence Index is ≤ 3.0¹ <u>_____</u> Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) <u>_____</u> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? 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Remarks: (Include photo numbers here or on a separate sheet.)

This is a shallow marsh plant community.

SOIL

Sampling Point: **W9-6 T-1 C(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	N2.5/1	100	None				Fibric muck	
6-18	2.5Y 7/1	100	2.5Y5/6	5%	C	M	Silty clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input checked="" type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input checked="" type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>6</u>
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0</u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

I-94 drainage swale observed on the aerial at this location.

Remarks:

This is a drainage swale between the I-94 mainline and the Park and Ride within the infield.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline Oak Creek/
 Applicant/Owner: WDOT City/County: Milwaukee Sampling Date: 9/9/2009
 Investigator(s): Julie A. Paschal State: WI Sampling Point: W9-6/W9-7 T-1 B(u)
 Landform (hillslope, terrace, etc.): Hillslope Section, Township, Range: Section 20, T5N R22E
 Slope (%): 10% Lat: See Fig. 2 Long: See Fig. 2 Local relief (concave, convex, none): Convex
 Soil Map Unit Name: Blount silt loam (BIA) Datum: NA
 WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (if no, explain in Remarks)
 Are Vegetation Soil *X or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation Soil or Hydrology naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u> </u>	No <u>X</u>	Is the Sampled Area within a Wetland?
Hydric Soil Present?	Yes <u> </u>	No <u>X</u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	
Remarks: * Soils are disturbed and contain fill material due to historic construction of IH-94.			

VEGETATION - Use scientific names for plants.

Tree Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> Absolute % Cover: <u>0%</u> = Total Cover Dominant Species: <u> </u> Indicator Status: <u> </u>	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)	
Sapling/Shrub Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> Absolute % Cover: <u>0%</u> = Total Cover Dominant Species: <u> </u> Indicator Status: <u> </u>		Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: OBL species <u> </u> x 1 = <u> </u> FACW species <u> </u> x 2 = <u> </u> FAC species <u>30%</u> x 3 = <u>90</u> FACU species <u>79%</u> x 4 = <u>316</u> UPL species <u> </u> x 5 = <u> </u> Column Totals: <u>109%</u> (A) <u>406</u> (B) Prevalence Index = B/A = <u>3.72</u>
Herb Stratum (Plot Size: <u>5 ft. radius</u>) 1. <u>Cirsium arvense</u> <u>50%</u> <u>Yes</u> <u>FACU</u> 2. <u>Melilotus alba</u> <u>2%</u> <u>No</u> <u>FACU</u> 3. <u>Erechtites hieracifolia</u> <u>2%</u> <u>No</u> <u>FACU</u> 4. <u>Poa pratensis</u> <u>30%</u> <u>Yes</u> <u>FAC</u> 5. <u>Festuca elatior</u> <u>25%</u> <u>Yes</u> <u>FACU</u> 6. <u> </u> 7. <u> </u> 8. <u> </u> 9. <u> </u> 10. <u> </u> Absolute % Cover: <u>109%</u> = Total Cover Dominant Species: <u> </u> Indicator Status: <u> </u>		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is ≤ 3.0 ¹ Morphological Adaptations ¹ (Provide supporting data in Remarks or on separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot Size: <u>N/A</u>) 1. <u>N/A</u> 2. <u> </u> Absolute % Cover: <u>0%</u> = Total Cover Dominant Species: <u> </u> Indicator Status: <u> </u>	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>	

Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, roadside plant community.

SOIL

Sampling Point: **W9-6/W9-7 T-1 B(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR 3/3	100	None				Silt loam	
4-18	10YR 4/2	70	10YR 4/6	10%	C	M	Silty clay loam	Mixed matrix
4-18	10YR 5/3	30	10YR 4/6	10%	C	M	Silty clay loam	Mixed matrix

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

Remarks:

Fill material/mixed matrix. Redoximorphic features may be relic hydric conditions.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
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<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
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<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Water Table Present?	Yes _____	No <u>X</u>	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No <u>X</u>	Depth (inches): _____

Wetland Hydrology Present? Yes _____ No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed. This sample point is upslope from the adjacent wetlands.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/9/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-7 T-1 A(w)
 Investigator(s): Julie A. Paschal Section, Township, Range: Section 20, T5N R22E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: Wetland smaller than 2 acres
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: <p align="center">This is a shallow marsh wetland within a drainage area at the Ryan Road interchange.</p>			

VEGETATION - Use scientific names for plants.

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Remarks: (Include photo numbers here or on a separate sheet.)

This is a shallow marsh plant community dominated by *Typha angustifolia*.

SOIL

Sampling Point: **W9-7 T-1 A(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
N/A								

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

*** Soils are presumed to be hydric due to dominant obligate vegetation and inundation. Soils are saturated/inundated during the dry season.**

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0.5</u>
Water Table Present?	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0</u>
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>0</u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This is a drainage area in the infield between the IH-94 mainline and the Park and Ride. This area is at a lower elevation in the topography than the adjacent uplands.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-8 T-1 A(u)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 15% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks:			

VEGETATION - Use scientific names for plants.

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2. <u>Daucus carota</u>	<u>10%</u>	<u>Yes</u>	<u>UPL</u>																																																																																																																																											
3. <u>Aster ericoides</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>																																																																																																																																											
4. <u>Poa pratensis</u>	<u>15%</u>	<u>Yes</u>	<u>FAC</u>																																																																																																																																											
5. <u>Aster drummondii</u>	<u>5%</u>	<u>No</u>	<u>UPL</u>																																																																																																																																											
6. <u>Solidago nemoralis</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>																																																																																																																																											
7. <u>Fragaria virginiana</u>	<u>10%</u>	<u>Yes</u>	<u>FAC</u>																																																																																																																																											
8. <u>Asclepias verticillatus</u>	<u>2%</u>	<u>No</u>	<u>UPL</u>																																																																																																																																											
9. <u>Cornus foemina</u>	<u>10%</u>	<u>Yes</u>	<u>FACW</u>																																																																																																																																											
10. _____																																																																																																																																														
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FAC species	<u>25%</u> x 3 =	<u>75</u>																																																																																																																																												
FACU species	<u>60%</u> x 4 =	<u>240</u>																																																																																																																																												
UPL species	<u>17%</u> x 5 =	<u>85</u>																																																																																																																																												
Column Totals:	<u>112%</u> (A)	<u>420</u> (B)																																																																																																																																												

Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community. The plant community is weedy but stabilized.

SOIL

Sampling Point: **W9-8 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR 3/1	100	None				Silty clay	Fill or cut area
9-18	10YR 5/3	100	None				Clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed. Conditions are dry.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/17/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-8 T-1 B(w)
 Investigator(s): Eric C. Parker Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave
 Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Remarks:

This wetland is predominately a *Typha spp.* dominated shallow marsh ditch. The edge of the marsh grades to a narrow wet meadow wetland.

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. 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Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet)</p> <p>____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Hydrophytic Vegetation Present? 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Remarks: (Include photo numbers here or on a separate sheet.)

This is a shallow marsh/wet meadow plant community.

SOIL

Sampling Point: **W9-8 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/1	100	None				Silty clay loam	
6-15	2.5Y 5/2	100	10YR 4/6	20%	C	M	Silty clay loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
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<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
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<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
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<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input checked="" type="checkbox"/>	No <u> </u>	Depth (inches): <u>10</u>
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="checkbox"/>	No <u> </u>	Depth (inches): <u>10</u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This wetland is predominately a *Typha spp.* dominated shallow marsh ditch. The edge of the marsh grades to a narrow wet meadow wetland.**Standing water is present in the more central portion of the ditch.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/15/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-9 T-1 A(u)
 Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 4% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks:			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center" colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center" colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%; 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Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community.

SOIL

Sampling Point: **W9-9 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 4/2	100	None				Silty clay loam	
8-18	10YR 5/3	100	None				Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils were historically graded. No hydric soil indicators observed. Soils were observed to be dry.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
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Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/15/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W9-9 T-1 B(w)
 Investigator(s): Eric C. Parker / Julie A. Paschal Section, Township, Range: Section 19, T5N R22E
 Landform (hillslope, terrace, etc.): Toe of hillslope Local relief (concave, convex, none): Concave
 Slope (%): 2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Blount silt loam (BIA) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No _____	Is the Sampled Area Yes <u>X</u> No _____
Hydric Soil Present? Yes <u>X</u> No _____	within a Wetland?
Wetland Hydrology Present? Yes <u>X</u> No _____	
Remarks: This is a shallow marsh/wet meadow wetland within a drainage area at the Ryan Road interchange.	

VEGETATION - Use scientific names for plants.

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Remarks: (Include photo numbers here or on a separate sheet.)

This is a wet meadow plant community.

SOIL

Sampling Point: **W9-9 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR 4/2	100	None				Silty clay loam	
7-15	7.5YR 5/2	100	10YR 4/6	5%	C	M	Silty clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input checked="" type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

The soils were historically disturbed due to the construction of IH-94. The soil profile indicates these are developing hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input checked="" type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This sample point is at a lower elevation in the topography than the corresponding upland sample point. This wetland is within a drainage area at the Ryan Road interchange.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/9/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W10-1 T-1 A(u)
 Investigator(s): Marcus S. Anderson / Tina M. Myers Section, Township, Range: Section 30, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): None
 Slope (%): 2-3% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation *X Soil **X or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>*X</u>	No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	

Remarks:

*** The vegetation is naturally problematic; this is a degraded plant community with only two dominant species-one FACW species and one FACU species.**
**** The soils are naturally problematic due to a deep, dark A horizon.**

This area is higher in the elevation than the adjacent wetland, has questionable vegetation, and shows no signs of wetland hydrology. It is GRAEF's professional opinion that this area is non-wetland. The area appears to have been drained as a result of ditching.

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Phalaris arundinacea</u></td><td><u>60%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Cirsium arvense</u></td><td><u>60%</u></td><td><u>Yes</u></td><td><u>FACU</u></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td>9. _____</td><td></td><td></td><td></td></tr> <tr><td>10. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>120%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>Phalaris arundinacea</u>	<u>60%</u>	<u>Yes</u>	<u>FACW</u>	2. <u>Cirsium arvense</u>	<u>60%</u>	<u>Yes</u>	<u>FACU</u>	3. _____				4. _____				5. _____				6. _____				7. _____				8. _____				9. _____				10. _____					<u>120%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____					<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)</p> <hr/> <p>Prevalence Index Worksheet:</p> <table border="0"> <tr> <td>Total % Cover of:</td> <td></td> <td>Multiply by:</td> <td></td> </tr> <tr> <td>OBL species</td> <td></td> <td>x 1 =</td> <td></td> </tr> <tr> <td>FACW species</td> <td><u>60%</u></td> <td>x 2 =</td> <td><u>120</u></td> </tr> <tr> <td>FAC species</td> <td></td> <td>x 3 =</td> <td></td> </tr> <tr> <td>FACU species</td> <td><u>60%</u></td> <td>x 4 =</td> <td><u>240</u></td> </tr> <tr> <td>UPL species</td> <td></td> <td>x 5 =</td> <td></td> </tr> <tr> <td>Column Totals:</td> <td><u>120%</u> (A)</td> <td></td> <td><u>360</u> (B)</td> </tr> </table> <p>Prevalence Index = B/A = <u>3.00</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50% <u>X</u> Prevalence Index is ≤ 3.0¹ _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:		Multiply by:		OBL species		x 1 =		FACW species	<u>60%</u>	x 2 =	<u>120</u>	FAC species		x 3 =		FACU species	<u>60%</u>	x 4 =	<u>240</u>	UPL species		x 5 =		Column Totals:	<u>120%</u> (A)		<u>360</u> (B)
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Remarks: (Include photo numbers here or on a separate sheet.)

The vegetation is problematic; this is a degraded plant community with only two dominant species-one FACW species and one FACU species. No other species were observed in this area.

SOIL

Sampling Point: **W10-1 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-25	10YR 2/1	100	None				Silt loam	
25-27	10YR 2/1	100	7.5YR 4/6	1%	C	M	Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

Soils very dry throughout. These are well drained soils-spoils from ditching observed in this area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This area is higher in the elevation than the adjacent wetland and appears to have been drained as a result of ditching. No wetland hydrology indicators observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/9/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W10-1 T-1 B(w)
 Investigator(s): Marcus S. Anderson / Tina M. Myers Section, Township, Range: Section 30, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Ashkum silty clay loam (AsA) WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks:			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>0%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>0%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u><i>Typha angustifolia</i></u></td><td><u>50%</u></td><td><u>Yes</u></td><td><u>OBL</u></td></tr> <tr><td>2. <u><i>Phalaris arundinacea</i></u></td><td><u>60%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td>9. _____</td><td></td><td></td><td></td></tr> <tr><td>10. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>110%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td><u>0%</u></td> <td colspan="2">= Total Cover</td> </tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u><i>Typha angustifolia</i></u>	<u>50%</u>	<u>Yes</u>	<u>OBL</u>	2. <u><i>Phalaris arundinacea</i></u>	<u>60%</u>	<u>Yes</u>	<u>FACW</u>	3. _____				4. _____				5. _____				6. _____				7. _____				8. _____				9. _____				10. _____					<u>110%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____					<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)</p> <p>Prevalence Index Worksheet:</p> <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 = _____</td></tr> <tr><td>FACW species</td><td>x 2 = _____</td></tr> <tr><td>FAC species</td><td>x 3 = _____</td></tr> <tr><td>FACU species</td><td>x 4 = _____</td></tr> <tr><td>UPL species</td><td>x 5 = _____</td></tr> <tr> <td>Column Totals:</td> <td><u>_____</u> (A) <u>_____</u> (B)</td> </tr> </tbody> </table> <p>Prevalence Index = B/A = _____</p> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50% <u>_____</u> Prevalence Index is ≤ 3.0¹ <u>_____</u> Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) <u>_____</u> Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:	Multiply by:	OBL species	x 1 = _____	FACW species	x 2 = _____	FAC species	x 3 = _____	FACU species	x 4 = _____	UPL species	x 5 = _____	Column Totals:	<u>_____</u> (A) <u>_____</u> (B)
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Remarks: (Include photo numbers here or on a separate sheet.)
This is a ditched, shallow marsh plant community.

SOIL

Sampling Point: **W10-1 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10YR 2/1	100	None				Silt loam	
16-22	10YR 2/1	100	10YR 4/4	2%	C	M	Silt loam	
22-24	10YR 2/1	70	None				Silt loam	Small shells observed
	10YR 5/2	30	10YR 5/6	10%	C	M	Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
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<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

This is a problematic soil due to a deep, dark A horizon.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
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<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Drainageway visible on aerial photograph.

Remarks:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/2/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W10-3 T-1 A(u)
 Investigator(s): Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 29, T5N R22E
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Concave
 Slope (%): 20% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Matherton silt loam (Mma) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No <u>X</u>	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric Soil Present?	Yes _____	No <u>X</u>	
Wetland Hydrology Present?	Yes _____	No <u>X</u>	
Remarks:			

VEGETATION - Use scientific names for plants.

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Remarks: (Include photo numbers here or on a separate sheet.)

This is an upland, old field plant community.

SOIL

Sampling Point: **W10-3 T-1 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR 2/1	100	None				Silt loam	
18-22	10YR 2/1	50	None				Silt loam	
18-22	10YR 4/3	50	7.5YR 4/6	5%	C	M	Loamy sand	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes ☐ No ☒

Remarks:

The soils are very dry.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Water Table Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This sample point is located on a hillslope adjacent to a shallow marsh/wet meadow wetland along Oak Creek running beneath the Ryan Road northbound exit ramp. This area is at a higher elevation in the topography than the adjacent wetland and waterway.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/2/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W10-3 T-1 B(w)
 Investigator(s): Tina M. Myers / Julie A. Paschal Section, Township, Range: Section 29, T5N R22E
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Concave
 Slope (%): 0-2% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Sebewa silt loam (Sm) WWI Classification: T3/E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	

Remarks:

This is a wet meadow/shallow marsh wetland located adjacent to Oak Creek running beneath the Ryan Road northbound exit ramp. East of this area, the wetland transitions into a forested riparian wetland.

VEGETATION - Use scientific names for plants.

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Column Totals:	(A) _____ (B) _____																																																																																																																																						

Remarks: (Include photo numbers here or on a separate sheet.)

This is a shallow marsh/wet meadow plant community dominated by invasive *Phalaris arundinacea* and *Typha spp.*

SOIL

Sampling Point: **W10-3 T-1 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 3/1	100	None				Silt loam	
6-16	10YR 5/1	100	5YR 5/8	50%	C	PL/M	Silt	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input checked="" type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

Shells observed within the soil profile from 6-16 inches.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input checked="" type="checkbox"/> Aquatic Fauna (B13)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input checked="" type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>7</u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Oak Creek is visible on the aerial as well as some lighter tones in some adjacent areas suggesting dominance of *Phalaris arundinacea*.

Remarks:

This wet meadow/shallow marsh wetland is located adjacent to Oak Creek which is presumed to provide wetland hydrology. This area is at a lower elevation in the topography than the surrounding upland hillslopes.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/ Milwaukee Sampling Date: 9/9/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W10-4 T-2 A(u)
 Investigator(s): Marcus S. Anderson / Tina M. Myers Section, Township, Range: Section 29, T5N R22E
 Landform (hillslope, terrace, etc.): Slight hillslope Local relief (concave, convex, none): None
 Slope (%): 1-3% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Sebewa silt loam (Sm) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No <u>X</u>	Is the Sampled Area within a Wetland?	Yes _____ No <u>X</u>
Hydric Soil Present?	Yes <u>X</u> No _____		
Wetland Hydrology Present?	Yes _____ No <u>X</u>		
Remarks:			

VEGETATION - Use scientific names for plants.

<p>Tree Stratum (Plot Size: <u>30 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Fagus grandifolia</u></td><td><u>10%</u></td><td><u>Yes</u></td><td><u>FACU</u></td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>10%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Sapling/Shrub Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Herb Stratum (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>Phalaris arundinacea</u></td><td><u>90%</u></td><td><u>Yes</u></td><td><u>FACW</u></td></tr> <tr><td>2. <u>Cirsium arvense</u></td><td><u>15%</u></td><td><u>No</u></td><td><u>FACU</u></td></tr> <tr><td>3. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>4. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>5. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>6. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>7. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>8. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>9. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>10. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>105%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table> <p>Woody Vine Stratum (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%"> <thead> <tr> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>2. _____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td></td><td><u>0%</u></td><td colspan="2">= Total Cover</td></tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>Fagus grandifolia</u>	<u>10%</u>	<u>Yes</u>	<u>FACU</u>	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____		<u>10%</u>	= Total Cover						1. <u>N/A</u>	_____	_____	_____	2. _____	_____	_____	_____	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____		<u>0%</u>	= Total Cover						1. <u>Phalaris arundinacea</u>	<u>90%</u>	<u>Yes</u>	<u>FACW</u>	2. <u>Cirsium arvense</u>	<u>15%</u>	<u>No</u>	<u>FACU</u>	3. _____	_____	_____	_____	4. _____	_____	_____	_____	5. _____	_____	_____	_____	6. _____	_____	_____	_____	7. _____	_____	_____	_____	8. _____	_____	_____	_____	9. _____	_____	_____	_____	10. _____	_____	_____	_____		<u>105%</u>	= Total Cover						1. <u>N/A</u>	_____	_____	_____	2. _____	_____	_____	_____		<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>2</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50%</u> (A/B)</p> <hr/> <p>Prevalence Index Worksheet:</p> <table border="1" style="width:100%"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> <th></th> </tr> </thead> <tbody> <tr><td>OBL species</td><td>x 1 =</td><td>_____</td></tr> <tr><td>FACW species</td><td>x 2 =</td><td><u>180</u></td></tr> <tr><td>FAC species</td><td>x 3 =</td><td>_____</td></tr> <tr><td>FACU species</td><td>x 4 =</td><td><u>100</u></td></tr> <tr><td>UPL species</td><td>x 5 =</td><td>_____</td></tr> <tr><td>Column Totals:</td><td></td><td><u>115%</u> (A) <u>280</u> (B)</td></tr> </tbody> </table> <p>Prevalence Index = B/A = <u>2.43</u></p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p>_____ Dominance Test is >50% <u>X</u> Prevalence Index is ≤ 3.0¹ _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet) _____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? 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Remarks: (Include photo numbers here or on a separate sheet.)

***Phalaris arundinacea* becomes more dense downslope within the wetland boundaries and the *Cirsium arvense* is no longer present. The vegetation at this sample point meets the Prevalence Index and the FAC-Neutral Test but does not meet the Dominance Test. In addition, there were no wetland hydrology indicators observed at this sample point. *Phalaris arundinacea* is an opportunistic species often found within upland areas. It is professional opinion that this is an upland, old field plant community.**

SOIL

Sampling Point: **W10-4 T-2 A(u)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-8	10YR 2/1	100	None				Silt loam	
8-20	10YR 2/1	100	10YR 4/4	2%	C	M	Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
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Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
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<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
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<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>

Wetland Hydrology Present? Yes No X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Except for the FAC-Neutral Test, no wetland hydrology indicators were observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH-94 Mainline City/County: Oak Creek/Milwaukee Sampling Date: 9/9/2009
 Applicant/Owner: WDOT State: WI Sampling Point: W10-4 T-2 B(w)
 Investigator(s): Marcus S. Anderson Section, Township, Range: Section 29, T5N R22E
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave
 Slope (%): 0-1% Lat: See Fig. 2 Long: See Fig. 2 Datum: NA
 Soil Map Unit Name: Sebewa silt loam (Sm) WWI Classification: None
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (if no, explain in Remarks)
 Are Vegetation _____ Soil _____ or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation _____ Soil _____ or Hydrology _____ naturally problematic? (if needed, explain any answers in Remarks)

SUMMARY OF FINDINGS --- Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <u>X</u>	No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric Soil Present?	Yes <u>X</u>	No _____	
Wetland Hydrology Present?	Yes <u>X</u>	No _____	
Remarks: <p align="center">This is a wet meadow wetland within a drainage area along IH-94 at the Ryan Road interchange.</p>			

VEGETATION - Use scientific names for plants.

<p><u>Tree Stratum</u> (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center">= Total Cover</td> <td></td> </tr> </tbody> </table> <p><u>Sapling/Shrub Stratum</u> (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center">= Total Cover</td> <td></td> </tr> </tbody> </table> <p><u>Herb Stratum</u> (Plot Size: <u>5 ft. radius</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>Phalaris arundinacea</u></td><td align="center"><u>100%</u></td><td align="center"><u>Yes</u></td><td align="center"><u>FACW</u></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td>9. _____</td><td></td><td></td><td></td></tr> <tr><td>10. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>100%</u></td> <td align="center">= Total Cover</td> <td></td> </tr> </tbody> </table> <p><u>Woody Vine Stratum</u> (Plot Size: <u>N/A</u>)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Absolute % Cover</th> <th>Dominant Species</th> <th>Indicator Status</th> </tr> </thead> <tbody> <tr><td>1. <u>N/A</u></td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr> <td></td> <td align="center"><u>0%</u></td> <td align="center">= Total Cover</td> <td></td> </tr> </tbody> </table>		Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____				3. _____				4. _____				5. _____					<u>0%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>Phalaris arundinacea</u>	<u>100%</u>	<u>Yes</u>	<u>FACW</u>	2. _____				3. _____				4. _____				5. _____				6. _____				7. _____				8. _____				9. _____				10. _____					<u>100%</u>	= Total Cover			Absolute % Cover	Dominant Species	Indicator Status	1. <u>N/A</u>				2. _____					<u>0%</u>	= Total Cover		<p>Dominance Test Worksheet:</p> <p>Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)</p> <p>Total Number of Dominant Species Across All Strata: <u>1</u> (B)</p> <p>Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)</p> <hr/> <p>Prevalence Index Worksheet:</p> <table border="0" style="width:100%;"> <tr> <td align="right" colspan="2">Total % Cover of:</td> <td align="right">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td align="right">x 1 =</td> <td>_____</td> </tr> <tr> <td>FACW species</td> <td align="right">x 2 =</td> <td>_____</td> </tr> <tr> <td>FAC species</td> <td align="right">x 3 =</td> <td>_____</td> </tr> <tr> <td>FACU species</td> <td align="right">x 4 =</td> <td>_____</td> </tr> <tr> <td>UPL species</td> <td align="right">x 5 =</td> <td>_____</td> </tr> <tr> <td>Column Totals:</td> <td align="right">_____ (A)</td> <td align="right">_____ (B)</td> </tr> </table> <p align="center">Prevalence Index = B/A = _____</p> <hr/> <p>Hydrophytic Vegetation Indicators:</p> <p><u>X</u> Dominance Test is >50%</p> <p>_____ Prevalence Index is ≤ 3.0¹</p> <p>_____ Morphological Adaptations¹ (Provide supporting data in Remarks or on separate sheet)</p> <p>_____ Problematic Hydrophytic Vegetation¹ (Explain)</p> <p>¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p> <hr/> <p>Hydrophytic Vegetation Present? Yes <u>X</u> No _____</p>	Total % Cover of:		Multiply by:	OBL species	x 1 =	_____	FACW species	x 2 =	_____	FAC species	x 3 =	_____	FACU species	x 4 =	_____	UPL species	x 5 =	_____	Column Totals:	_____ (A)	_____ (B)
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Column Totals:	_____ (A)	_____ (B)																																																																																																																																												

Remarks: (Include photo numbers here or on a separate sheet.)

The plant community at this sample point is a *Phalaris arundinacea* monotype.

SOIL

Sampling Point: **W10-4 T-2 B(w)****Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-6	10YR 2/1	100					Silt loam	
6-18	10YR 2/1	100	10YR 4/4	10%	C	M	Silt loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.² Location: PL=Pore Lining, M=Matrix**Hydric Soil Indicators:**

<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Gleyed Matrix (S4)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Sandy Redox (S5)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Stripped Matrix (S6)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Mucky Mineral (F1)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)
<input type="checkbox"/> 2 cm Muck (A10)	<input type="checkbox"/> Depleted Matrix (F3)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input checked="" type="checkbox"/> Redox Dark Surface (F6)
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)
<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16)
<input type="checkbox"/> Iron-Manganese Masses (F12)
<input type="checkbox"/> Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.**Restrictive Layer (if observed):**

Type: N/A

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

HYDROLOGY**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Water Table Present?	Yes <u> </u>	No <u>X</u>	Depth (inches): <u> </u>
Saturation Present? (includes capillary fringe)	Yes <u>X</u>	No <u> </u>	Depth (inches): <u>16</u>

Wetland Hydrology Present? Yes X No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

This wetland is within a drainage area along IH-94 at the Ryan Road interchange.

APPENDIX D

WETS Analysis

WETS Analysis

Project Site: IH 94 (North - South)

Period of interest: May - July

County: Milwaukee

Long-term rainfall records (from WETS table)

	Month	3 years in 10 less than	Normal	3 years in 10 greater than
1st month prior:	July	2.40	3.58	4.28
2nd month prior:	June	2.34	3.56	4.28
3rd month prior:	May	1.80	3.06	3.71
Sum =		10.20		

Site determination

Site Rainfall (in)	Condition Dry/Normal*/Wet	Condition** Value	Month Weight	Product
2.30	Dry	1	3	3
6.11	Wet	3	2	6
2.80	Normal	2	1	2
Sum =	11.21		Sum*** =	11

*Normal precipitation with 30% to 70% probability of occurrence

Determination:

Wet

Dry

X Normal

**Condition value:

***If sum is:

Dry = 1

6 to 9

then period has been drier than normal

Normal = 2

10 to 14

then period has been normal

Wet = 3

15 to 18

then period has been wetter than normal

Precipitation data source: MILWAUKEE MITCHELL AP, WI839

WETS Station: MILWAUKEE MITCHELL AP, WI839

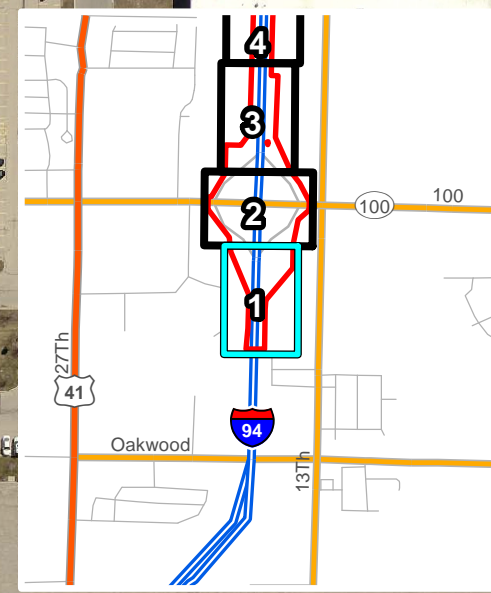
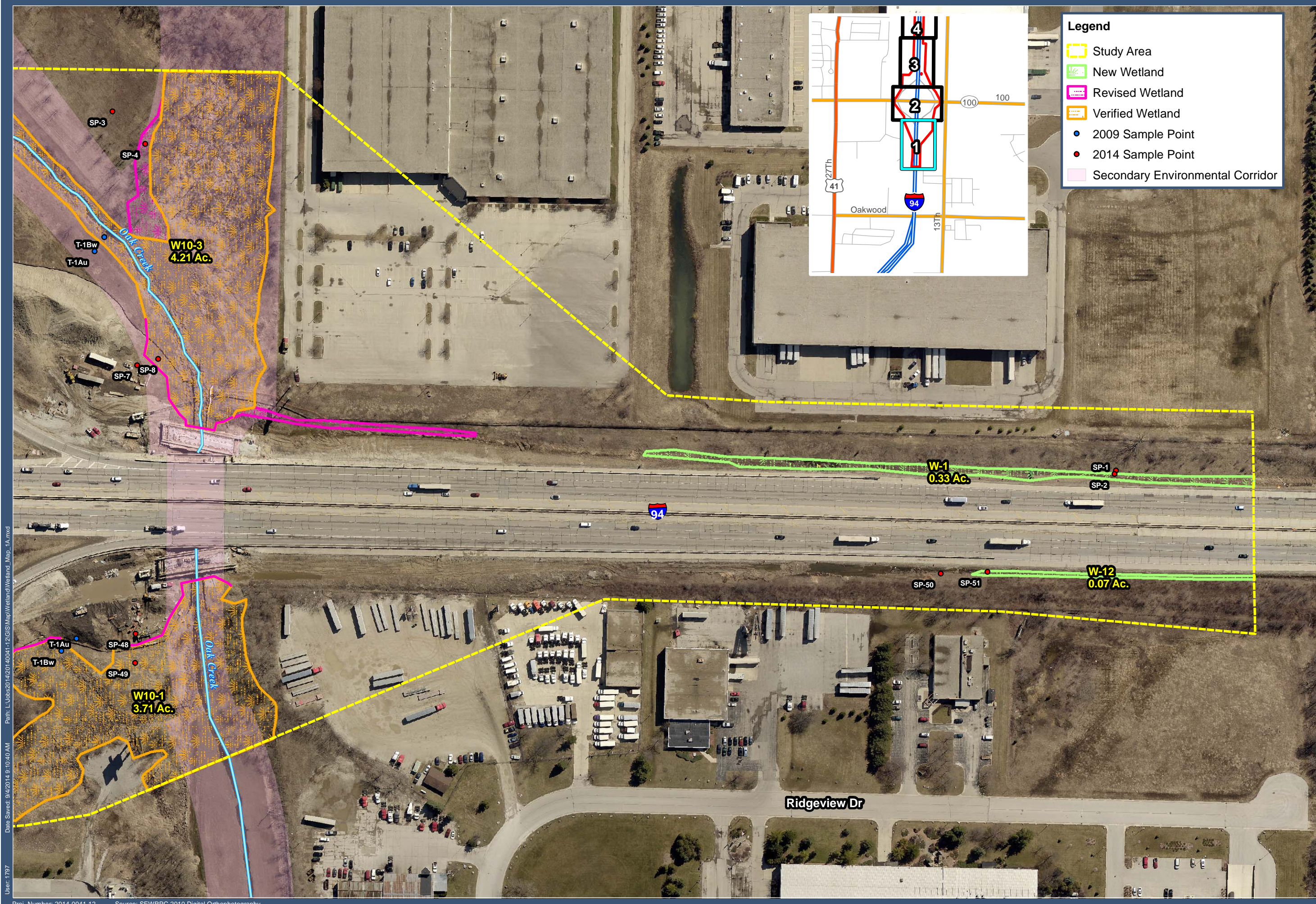
Reference:

Donald E. Woodward, ed. 1997. *Hydrology Tools for Wetland Determination*, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture, Natural Resources Conservation Service, Fort Worth, TX.

APPENDIX E

2014 Wetland Delineation Map

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User: 1797



Legend

- Study Area
- New Wetland
- Revised Wetland
- Verified Wetland
- 2009 Sample Point
- 2014 Sample Point
- Secondary Environmental Corridor

EXHIBIT A1

GRAEF

WETLAND DELINEATION UPDATE MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN

0 37.5 75 150

Feet

1 in = 150 ft

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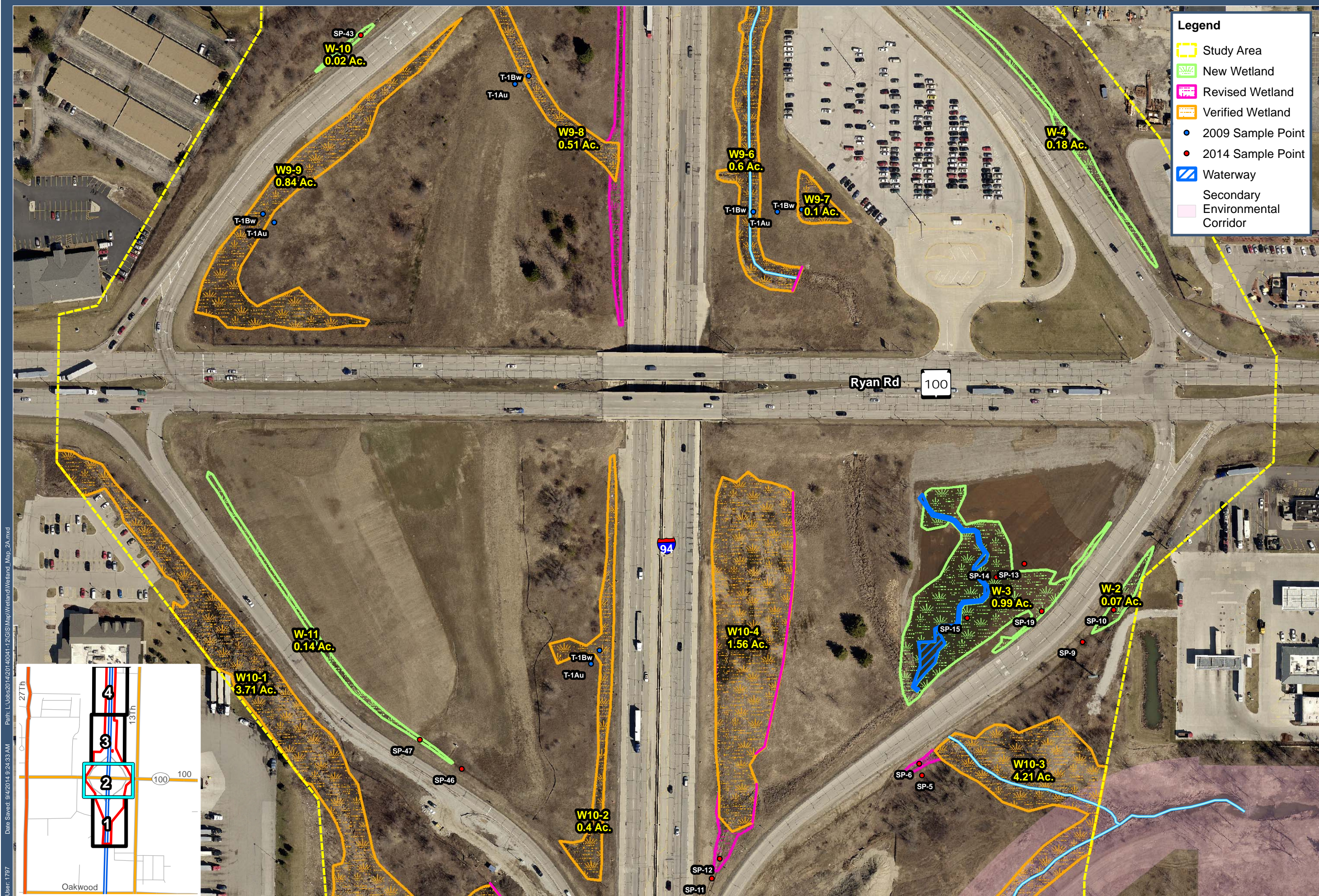


EXHIBIT A2

GRaEF

WETLAND DELINEATION UPDATE MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

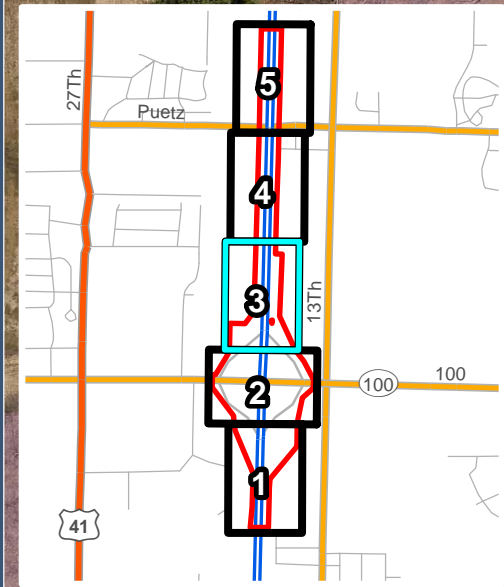
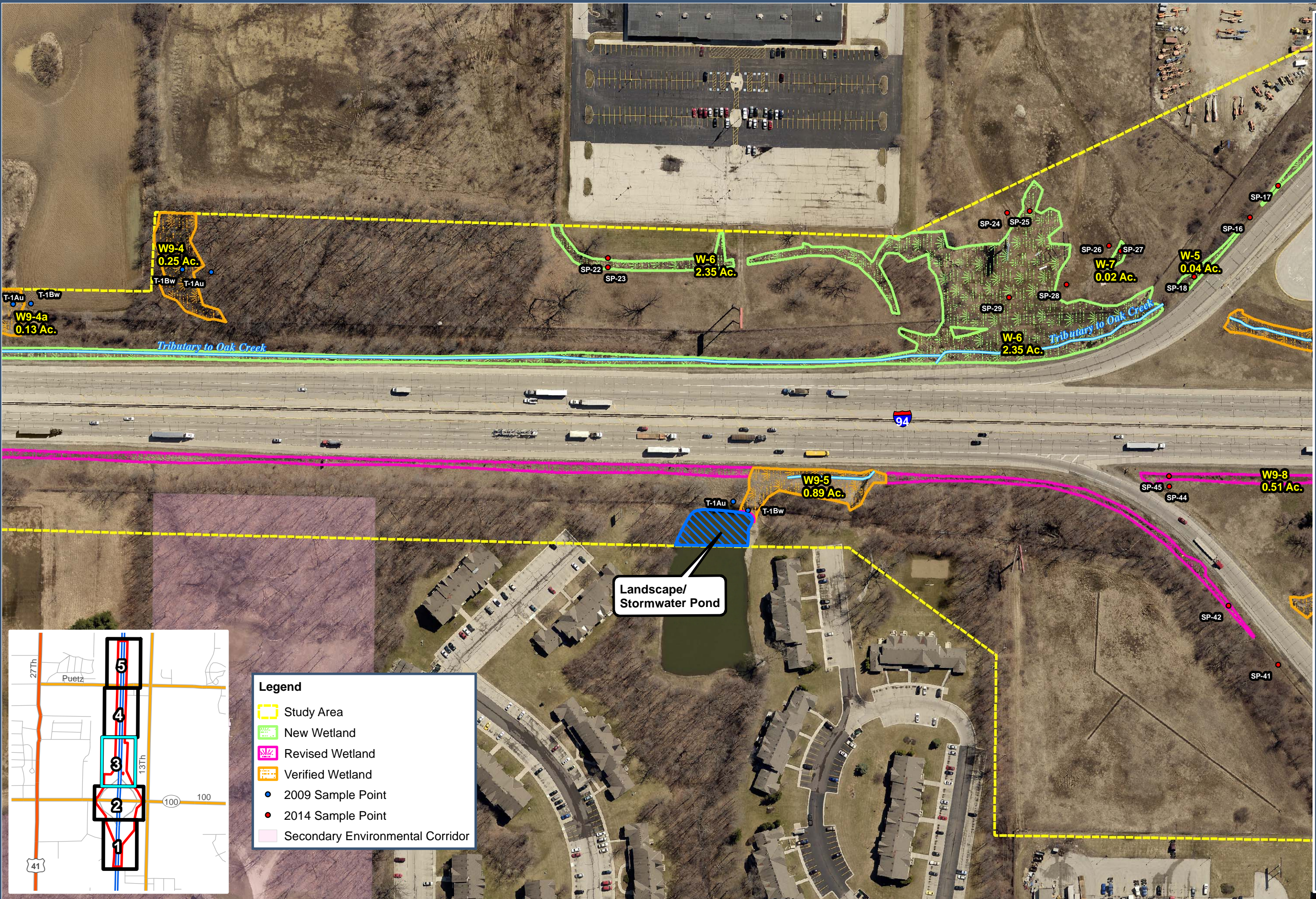
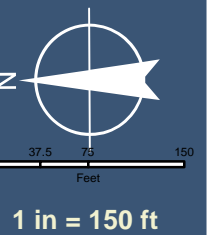
MILWAUKEE COUNTY, WISCONSIN

1 in = 150 ft

WETLAND DELINEATION UPDATE MAP (STUDY AREA A)

IH 94
WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07
MILWAUKEE COUNTY, WISCONSIN



Legend

- Study Area
- New Wetland
- Revised Wetland
- Verified Wetland
- 2009 Sample Point
- 2014 Sample Point
- Secondary Environmental Corridor

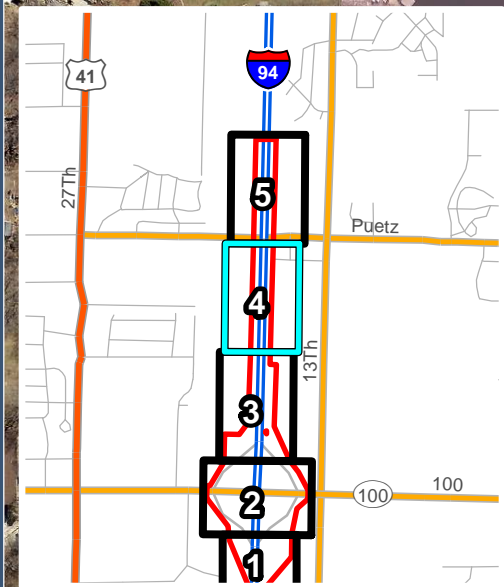
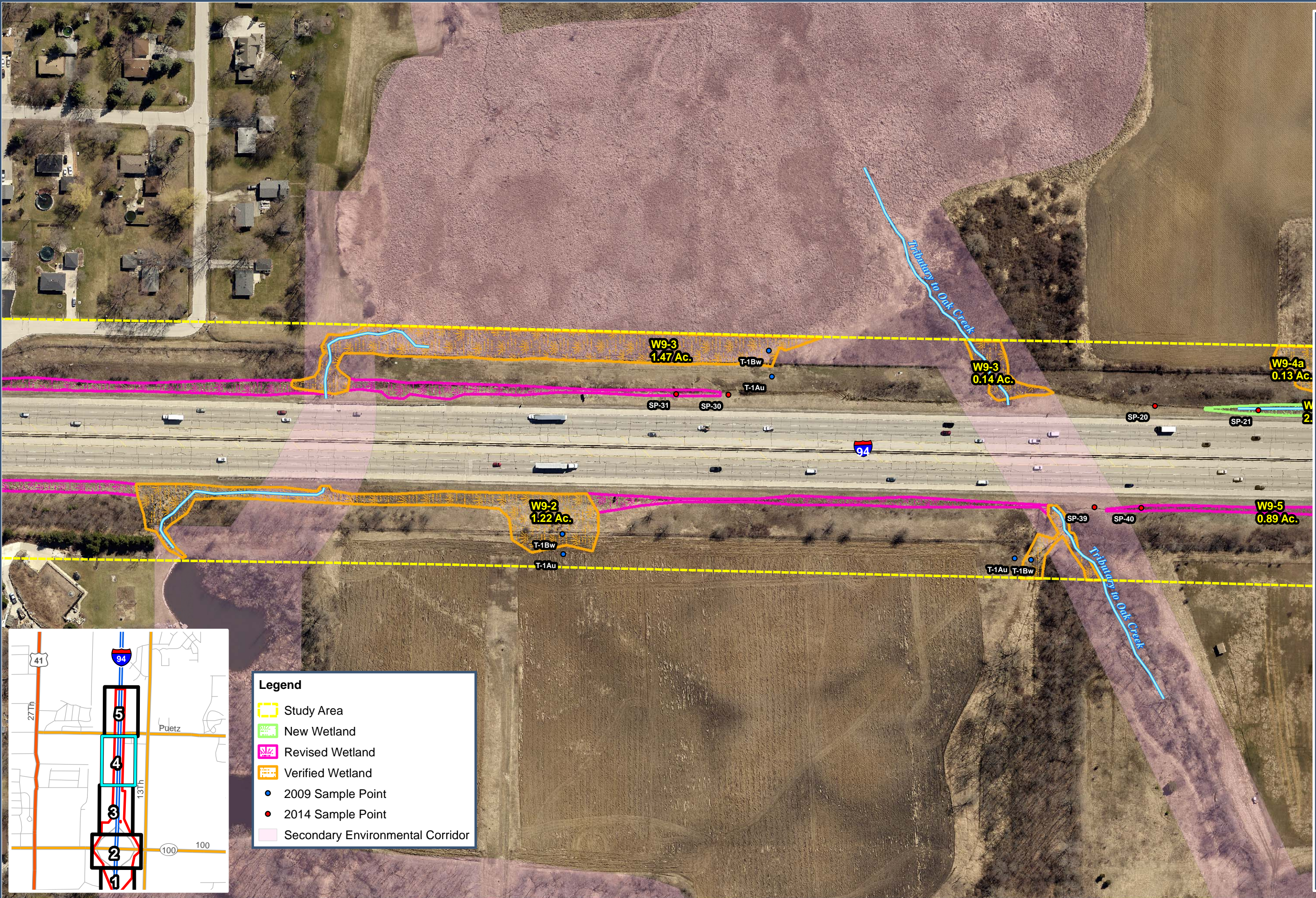
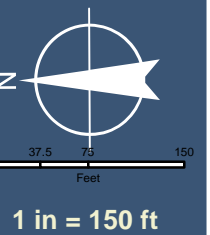
WETLAND DELINEATION UPDATE MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

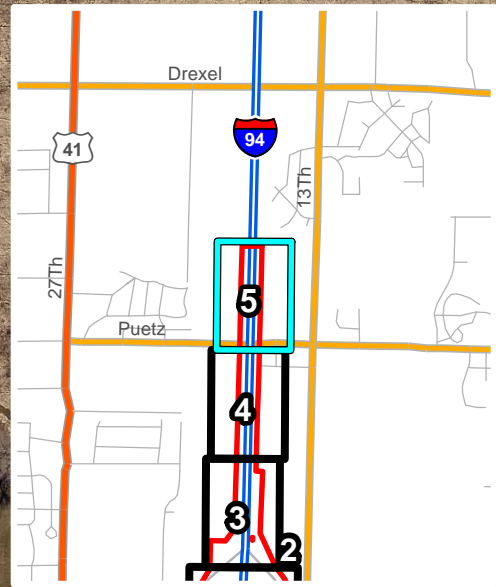
PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN



- Legend**
- Study Area
 - New Wetland
 - Revised Wetland
 - Verified Wetland
 - 2009 Sample Point
 - 2014 Sample Point
 - Secondary Environmental Corridor

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Legend

- Study Area
- New Wetland
- Revised Wetland
- Verified Wetland
- 2009 Sample Point
- 2014 Sample Point

EXHIBIT A5

GRAEF

WETLAND DELINEATION UPDATE MAP (STUDY AREA A)

IH 94

WETLANDS DELINEATION UPDATE

PROJECT ID 1030-20-07

MILWAUKEE COUNTY, WISCONSIN

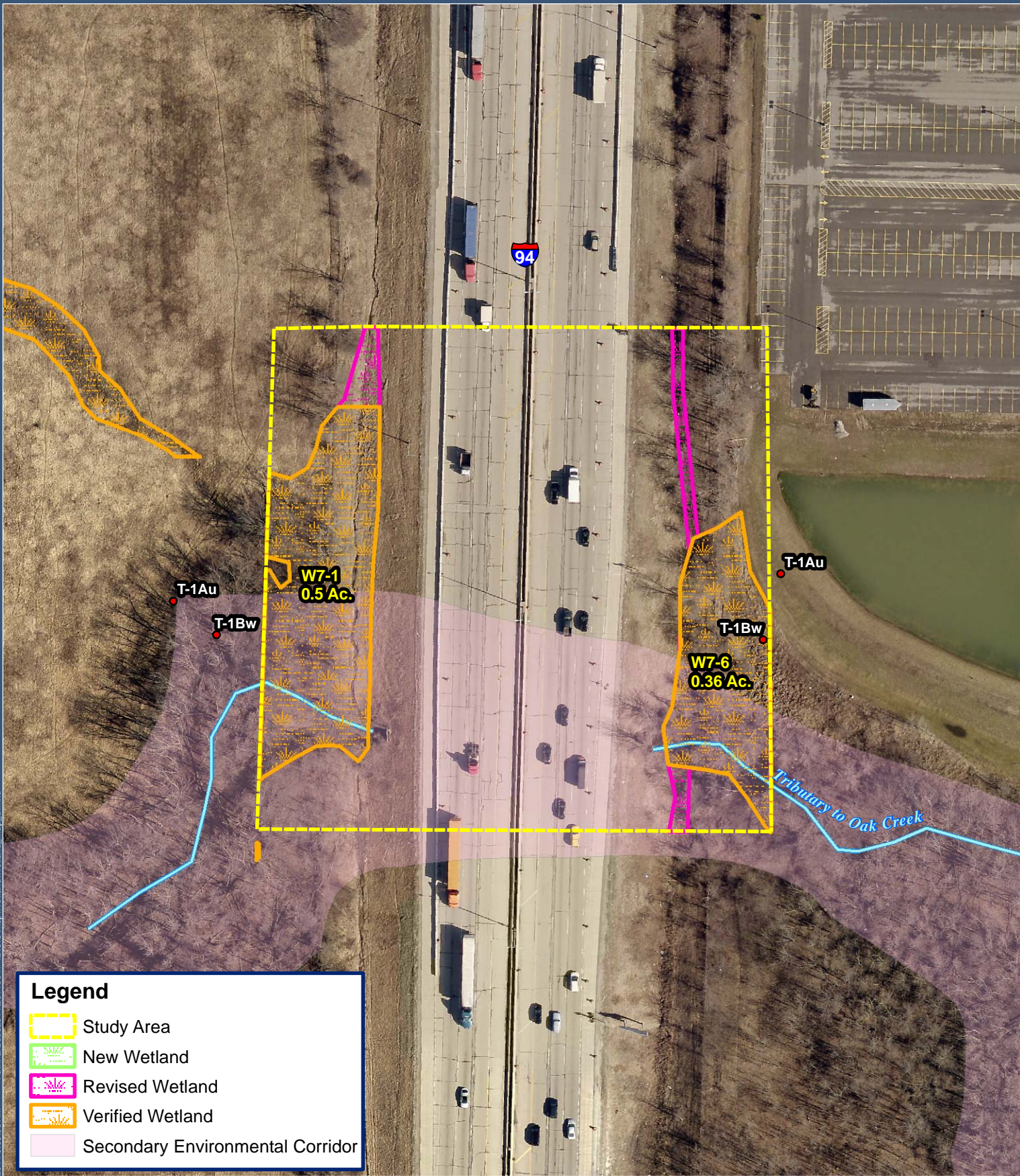
N

0 37.5 75 150

Feet

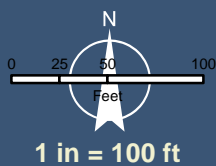
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Legend

- Study Area
- New Wetland
- Revised Wetland
- Verified Wetland
- Secondary Environmental Corridor



WETLAND DELINEATION UPDATE MAP (STUDY AREA B) EXHIBIT B IH 94

WETLANDS DELINEATION UPDATE
PROJECT ID 1030-20-07
MILWAUKEE COUNTY, WISCONSIN



APPENDIX F

Site Photographs

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 1

Direction of View:

North

Comment:

Photo of wetland W-1 contained within a roadside ditch.



Photo #: 2

Direction of View:

East

Comment:

Upland sample point SP-1. Paired with SP-2.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 3

Direction of View:

West

Comment:

Wetland W-1 sample point SP-2.
Paired with SP-1.



Photo #: 4

Direction of View:

West

Comment:

South boundary of wetland W10-3
was revised due to the construction of
a off ramp bridge over Oak Creek and
associated rip rap.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 5

Direction of View:

North

Comment:

Upland sample point SP-3. Paired with SP-4.

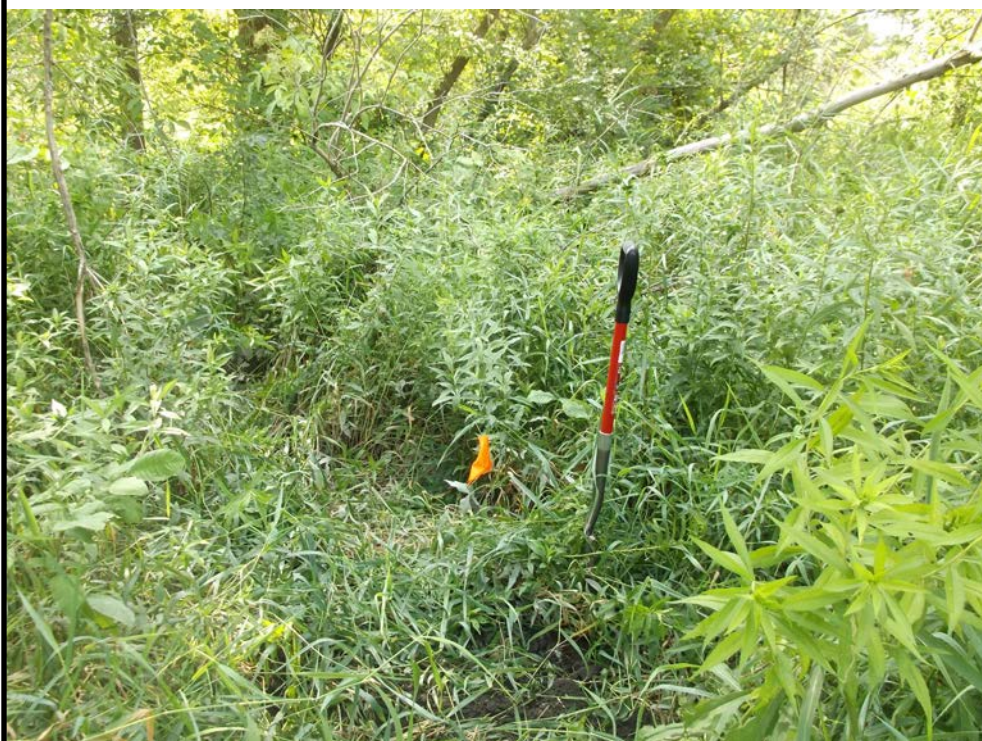


Photo #: 6

Direction of View:

South-southwest

Comment:

Wetland W10-3 sample point SP-4. Paired with SP-3. North boundary was revised and an increase in wetland area resulted.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 7

Direction of View:

Northeast

Comment:

Southern end of wetland W10-3 was expanded to include a wetland within a ditch.



Photo #: 8

Direction of View:

West

Comment:

Upland sample point SP-5. Paired with SP-6.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 9

Direction of View:

West

Comment:

Wetland W10-3 sample point SP-6. Paired with SP-5. W10-3 was expanded to include a wetland area within a ditch.



Photo #: 10

Direction of View:

North

Comment:

Upland sample point SP-7. Paired with SP-8.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 11

Direction of View:

South

Comment:

Wetland W10-3 sample point SP-7.
Boundary revised due to permitted
roadway improvement resulting in fill
and change to wetland boundary
location.



Photo #: 12

Direction of View:

South

Comment:

Upland sample point SP-9. Paired
with SP-10

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 13

Direction of View:

North

Comment:

Wetland W-2 sample point SP-10.
Paired with SP-9.



Photo #: 14

Direction of View:

South

Comment:

View of revised eastern boundary of
wetland W10-4 as a result of the
construction of a new off ramp from IH
94 towards STH 100.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 15

Direction of View:

South-southwest

Comment:

Upland sample point SP-11. Paired with SP-12.



Photo #: 16

Direction of View:

North

Comment:

Wetland W10-4 sample point SP-12. Paired with SP-11.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 17

Direction of View:

East

Comment:

Upland sample point SP-13. Paired with SP-14 and SP-15.



Photo #: 18

Direction of View:

Southwest

Comment:

Wetland W-3 sample point SP-14.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 19

Direction of View:

Southwest

Comment:

Wetland W-3 sample point SP-15.



Photo #: 20

Direction of View:

West

Comment:

Wetland W-3 sample point SP-19.
Wetland area located on a side slope.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 21

Direction of View:

South

Comment:

Upland sample point SP-16. Paired with SP-17 and SP-18.



Photo #: 22

Direction of View:

East

Comment:

Wetland W-4 sample point SP-17.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 23

Direction of View:

East

Comment:

Wetland W-5 sample point SP-18.



Photo #: 24

Direction of View:

South

Comment:

Upland sample point SP-20. Paired with SP-21.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 25

Direction of View:

East

Comment:

Wetland W-6 sample point SP-21.



Photo #: 26

Direction of View:

East

Comment:

Upland sample point SP-22. Paired with SP-23.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 27

Direction of View:

West

Comment:

Wetland W-6 sample point SP-23.



Photo #: 28

Direction of View:

East-northeast

Comment:

Upland sample point SP-24. Paired with SP-25.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 29

Direction of View:

Southwest

Comment:

Wetland W-6 sample point SP-25.



Photo #: 30

Direction of View:

East

Comment:

Upland sample point SP-26. Paired with SP-27.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 31

Direction of View:

Southwest

Comment:

Wetland W-7 sample point SP-27.



Photo #: 32

Direction of View:

Southeast

Comment:

Upland sample point SP-28. Paired with SP-29.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 33

Direction of View:

East

Comment:

Wetland W-6 sample point SP-29.



Photo #: 34

Direction of View:

Southeast

Comment:

Southern end of W9-6 was revised due to permitted roadway improvements resulting in fill and change in the boundary. Tributary to Oak Creek flows into culvert.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 35

Direction of View:

South

Comment:

Upland sample point SP-30. Paired with SP-31.



Photo #: 36

Direction of View:

North

Comment:

Wetland W9-3 sample point SP-31.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 37

Direction of View:

East

Comment:

Upland sample point SP-32. Paired with SP-33 and SP-34.



Photo #: 38

Direction of View:

South

Comment:

Wetland W-8 sample point SP-33.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 39

Direction of View:

East

Comment:

Wetland W-9 sample point SP-34.



Photo #: 40

Direction of View:

North

Comment:

Upland sample point SP-35. Paired with SP-36.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 41

Direction of View:

West

Comment:

Wetland W8-8 sample point SP-36.



Photo #: 42

Direction of View:

East

Comment:

Upland sample point SP-37. Paired with SP-38.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 43

Direction of View:

West

Comment:

Wetland W9-2 sample point SP-38.



Photo #: 44

Direction of View:

North

Comment:

Upland sample point SP-39. Paired with SP-40.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 45

Direction of View:

South

Comment:

Wetland W9-5 sample point SP-40.



Photo #: 46

Direction of View:

Northeast

Comment:

Upland sample point SP-41. Paired with SP-42 and SP-43.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 47

Direction of View:

West

Comment:

Wetland W9-5 sample point SP-42.



Photo #: 48

Direction of View:

West

Comment:

Wetland W-10 sample point SP-43.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 49

Direction of View:

South

Comment:

Upland sample point SP-44. Paired with SP-45.



Photo #: 50

Direction of View:

South

Comment:

Wetland W9-8 sample point SP-45.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 51

Direction of View:

Southeast

Comment:

Upland sample point SP-46. Paired with SP-47.



Photo #: 52

Direction of View:

North-northwest

Comment:

Wetland W-11 sample point SP-47.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 53

Direction of View:

East

Comment:

Upland sample point SP-48. Paired with SP-49.



Photo #: 54

Direction of View:

West

Comment:

Wetland W10-1 sample point SP-49.

SITE PHOTOGRAPHS



IH 94 (N-S Freeway)
Milwaukee County, Wisconsin

Photos Taken by GRAEF on August 1, 4, 6, 18, and 19, 2014



Photo #: 55

Direction of View:

South

Comment:

Upland sample point SP-50. Paired with SP-51.



Photo #: 56

Direction of View:

South

Comment:

Wetland W-12 sample point SP-51.

APPENDIX G

2014 Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 01-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-1**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 25.0% 14.0° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located on the side slope alongside IH 94. None of the three parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																								
1. _____	0	<input type="checkbox"/> 0.0%	_____																									
2. _____	0	<input type="checkbox"/> 0.0%	_____																									
3. _____	0	<input type="checkbox"/> 0.0%	_____																									
4. _____	0	<input type="checkbox"/> 0.0%	_____																									
5. _____	0	<input type="checkbox"/> 0.0%	_____																									
	0	= Total Cover																										
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 =</td> <td><u>0</u></td> </tr> <tr> <td>FACW species <u>15</u></td> <td>x 2 =</td> <td><u>30</u></td> </tr> <tr> <td>FAC species <u>25</u></td> <td>x 3 =</td> <td><u>75</u></td> </tr> <tr> <td>FACU species <u>78</u></td> <td>x 4 =</td> <td><u>312</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 =</td> <td><u>25</u></td> </tr> <tr> <td>Column Totals: <u>123</u></td> <td>(A)</td> <td><u>442</u> (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A = <u>3.593</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:		OBL species <u>0</u>	x 1 =	<u>0</u>	FACW species <u>15</u>	x 2 =	<u>30</u>	FAC species <u>25</u>	x 3 =	<u>75</u>	FACU species <u>78</u>	x 4 =	<u>312</u>	UPL species <u>5</u>	x 5 =	<u>25</u>	Column Totals: <u>123</u>	(A)	<u>442</u> (B)	Prevalence Index = B/A = <u>3.593</u>		
Total % Cover of:	Multiply by:																											
OBL species <u>0</u>	x 1 =	<u>0</u>																										
FACW species <u>15</u>	x 2 =	<u>30</u>																										
FAC species <u>25</u>	x 3 =	<u>75</u>																										
FACU species <u>78</u>	x 4 =	<u>312</u>																										
UPL species <u>5</u>	x 5 =	<u>25</u>																										
Column Totals: <u>123</u>	(A)	<u>442</u> (B)																										
Prevalence Index = B/A = <u>3.593</u>																												
1. _____	0	<input type="checkbox"/> 0.0%	_____																									
2. _____	0	<input type="checkbox"/> 0.0%	_____																									
3. _____	0	<input type="checkbox"/> 0.0%	_____																									
4. _____	0	<input type="checkbox"/> 0.0%	_____																									
5. _____	0	<input type="checkbox"/> 0.0%	_____																									
	0	= Total Cover																										
Herb Stratum (Plot size: <u>5' r</u>)																												
1. <u>Festuca rubra</u>	75	<input checked="" type="checkbox"/> 61.0%	FACU																									
2. <u>Cornus racemosa</u>	15	<input type="checkbox"/> 12.2%	FAC																									
3. <u>Poa pratensis</u>	10	<input type="checkbox"/> 8.1%	FAC																									
4. <u>Daucus carota</u>	5	<input type="checkbox"/> 4.1%	UPL																									
5. <u>Euthamia graminifolia</u>	5	<input type="checkbox"/> 4.1%	FACW																									
6. <u>Symphyotrichum novae-angliae</u>	5	<input type="checkbox"/> 4.1%	FACW																									
7. <u>Vitis riparia</u>	5	<input type="checkbox"/> 4.1%	FACW																									
8. <u>Parthenocissus quinquefolia</u>	3	<input type="checkbox"/> 2.4%	FACU																									
9. _____	0	<input type="checkbox"/> 0.0%	_____																									
10. _____	0	<input type="checkbox"/> 0.0%	_____																									
	123	= Total Cover																										
Woody Vine Stratum (Plot size: <u>30' r</u>)																												
1. _____	0	<input type="checkbox"/> 0.0%	_____																									
2. _____	0	<input type="checkbox"/> 0.0%	_____																									
	0	= Total Cover																										

Hydrophytic Vegetation Indicators:
☐ **1 - Rapid Test for Hydrophytic Vegetation**
☐ **2 - Dominance Test is > 50%**
☐ **3 - Prevalence Index is ≤3.0¹**
☐ **4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation¹ (Explain)**
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	10YR	4/2	100				Silty Clay Loam	
14-20	10YR	4/4	50				Sandy Clay Loam	
	10YR	4/2	50					

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 01-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-2**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdB2), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W-1	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>12' x 235'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>12' x 58'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Typha angustifolia</u>	90	<input checked="" type="checkbox"/> 81.1%	OBL	
2. <u>Solidago gigantea</u>	10	<input type="checkbox"/> 9.0%	FACW	
3. <u>Solidago canadensis</u>	5	<input type="checkbox"/> 4.5%	FACU	
4. <u>Festuca rubra</u>	3	<input type="checkbox"/> 2.7%	FACU	
5. <u>Sonchus arvensis</u>	3	<input type="checkbox"/> 2.7%	FACU	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	111	= Total Cover		
Woody Vine Stratum (Plot size: <u>12' x 235'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>90</u>	x 1 = <u>90</u>
FACW species <u>10</u>	x 2 = <u>20</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>11</u>	x 4 = <u>44</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>111</u>	(A) <u>154</u> (B)
Prevalence Index = B/A = <u>1.387</u>	

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is > 50%

☒ 3 - Prevalence Index is ≤ 3.0 ¹

☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 Vegetation at this point is representative of a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	2/2	100						Silt Loam	
6-15	10YR	5/2	80	7.5YR	5/6	20	C	M	Silty Clay Loam	
15-20	10YR	5/1	90	7.5YR	5/6	10	C	M	Silty Clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☒ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 01-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-3**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Shoulder slope Local relief (concave, convex, none): convex
 Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Aztalan loam (AsA), not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:																																
Tree Stratum (Plot size: 30' r)				Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																																
1. _____	0	<input type="checkbox"/> 0.0%																																		
2. _____	0	<input type="checkbox"/> 0.0%																																		
3. _____	0	<input type="checkbox"/> 0.0%																																		
4. _____	0	<input type="checkbox"/> 0.0%																																		
5. _____	0	<input type="checkbox"/> 0.0%																																		
		0 = Total Cover		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td colspan="2">Total % Cover of:</td> <td colspan="2">Multiply by:</td> </tr> <tr> <td>OBL species</td> <td>0</td> <td>x 1 =</td> <td>0</td> </tr> <tr> <td>FACW species</td> <td>85</td> <td>x 2 =</td> <td>170</td> </tr> <tr> <td>FAC species</td> <td>0</td> <td>x 3 =</td> <td>0</td> </tr> <tr> <td>FACU species</td> <td>30</td> <td>x 4 =</td> <td>120</td> </tr> <tr> <td>UPL species</td> <td>5</td> <td>x 5 =</td> <td>25</td> </tr> <tr> <td>Column Totals:</td> <td>120</td> <td>(A)</td> <td>315 (B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = <u>2.625</u></td> </tr> </table>	Total % Cover of:		Multiply by:		OBL species	0	x 1 =	0	FACW species	85	x 2 =	170	FAC species	0	x 3 =	0	FACU species	30	x 4 =	120	UPL species	5	x 5 =	25	Column Totals:	120	(A)	315 (B)	Prevalence Index = B/A = <u>2.625</u>			
Total % Cover of:		Multiply by:																																		
OBL species	0	x 1 =	0																																	
FACW species	85	x 2 =	170																																	
FAC species	0	x 3 =	0																																	
FACU species	30	x 4 =	120																																	
UPL species	5	x 5 =	25																																	
Column Totals:	120	(A)	315 (B)																																	
Prevalence Index = B/A = <u>2.625</u>																																				
Sapling/Shrub Stratum (Plot size: 15' r)																																				
1. _____	0	<input type="checkbox"/> 0.0%																																		
2. _____	0	<input type="checkbox"/> 0.0%																																		
3. _____	0	<input type="checkbox"/> 0.0%																																		
4. _____	0	<input type="checkbox"/> 0.0%																																		
5. _____	0	<input type="checkbox"/> 0.0%																																		
		0 = Total Cover																																		
Herb Stratum (Plot size: 5' r)																																				
1. <u>Euthamia graminifolia</u>	60	<input checked="" type="checkbox"/> 50.0%	FACW																																	
2. <u>Solidago canadensis</u>	25	<input checked="" type="checkbox"/> 20.8%	FACU																																	
3. <u>Solidago gigantea</u>	15	<input type="checkbox"/> 12.5%	FACW																																	
4. <u>Agrimonia gryposepala</u>	5	<input type="checkbox"/> 4.2%	FACU																																	
5. <u>Crataegus punctata</u>	5	<input type="checkbox"/> 4.2%	UPL																																	
6. <u>Vitis riparia</u>	5	<input type="checkbox"/> 4.2%	FACW																																	
7. <u>Ulmus americana</u>	3	<input type="checkbox"/> 2.5%	FACW																																	
8. <u>Phalaris arundinacea</u>	2	<input type="checkbox"/> 1.7%	FACW																																	
9. _____	0	<input type="checkbox"/> 0.0%																																		
10. _____	0	<input type="checkbox"/> 0.0%																																		
		120 = Total Cover																																		
Woody Vine Stratum (Plot size: 30' r)																																				
1. _____	0	<input type="checkbox"/> 0.0%																																		
2. _____	0	<input type="checkbox"/> 0.0%																																		
		0 = Total Cover																																		

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☐ 2 - Dominance Test is > 50%
☒ 3 - Prevalence Index is ≤3.0 ¹
☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation ¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a mesic to wet-mesic prairie plant community.
 The criterion for hydrophytic vegetation is not met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-13	10YR	3/2	100						Silty Clay Loam	
13-20	10YR	4/2	75	7.5YR	4/4	15	C	M	Sandy Clay Loam	
				10YR	4/1	10	D	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☐ No ☒

Remarks:
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present?
(includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 01-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-4**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Aztalan loam (AsA), not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W10-3	

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status																	
Tree Stratum (Plot size: 30' r)																				
1. <u>Acer negundo</u>	15	<input checked="" type="checkbox"/> 75.0%	FAC	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>5</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. <u>Acer saccharinum</u>	5	<input checked="" type="checkbox"/> 25.0%	FACW																	
3. _____	0	<input type="checkbox"/> 0.0%																		
4. _____	0	<input type="checkbox"/> 0.0%																		
5. _____	0	<input type="checkbox"/> 0.0%																		
	20	= Total Cover																		
Sapling/Shrub Stratum (Plot size: 15' r)																				
1. <u>Acer negundo</u>	10	<input checked="" type="checkbox"/> 66.7%	FAC	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>120</u></td> <td>x 2 = <u>240</u></td> </tr> <tr> <td>FAC species <u>28</u></td> <td>x 3 = <u>84</u></td> </tr> <tr> <td>FACU species <u>3</u></td> <td>x 4 = <u>12</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>151</u></td> <td>(A) <u>336</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.225</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>120</u>	x 2 = <u>240</u>	FAC species <u>28</u>	x 3 = <u>84</u>	FACU species <u>3</u>	x 4 = <u>12</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>151</u>	(A) <u>336</u> (B)	Prevalence Index = B/A = <u>2.225</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>120</u>	x 2 = <u>240</u>																			
FAC species <u>28</u>	x 3 = <u>84</u>																			
FACU species <u>3</u>	x 4 = <u>12</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>151</u>	(A) <u>336</u> (B)																			
Prevalence Index = B/A = <u>2.225</u>																				
2. <u>Sambucus nigra</u>	5	<input checked="" type="checkbox"/> 33.3%	FACW																	
3. _____	0	<input type="checkbox"/> 0.0%																		
4. _____	0	<input type="checkbox"/> 0.0%																		
5. _____	0	<input type="checkbox"/> 0.0%																		
	15	= Total Cover																		
Herb Stratum (Plot size: 5' r)																				
1. <u>Phalaris arundinacea</u>	80	<input checked="" type="checkbox"/> 69.0%	FACW	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago gigantea</u>	15	<input type="checkbox"/> 12.9%	FACW																	
3. <u>Vitis riparia</u>	10	<input type="checkbox"/> 8.6%	FACW																	
4. <u>Arisaema triphyllum</u>	5	<input type="checkbox"/> 4.3%	FACW																	
5. <u>Rhamnus cathartica</u>	3	<input type="checkbox"/> 2.6%	FAC																	
6. <u>Maianthemum racemosum</u>	3	<input type="checkbox"/> 2.6%	FACU																	
7. _____	0	<input type="checkbox"/> 0.0%																		
8. _____	0	<input type="checkbox"/> 0.0%																		
9. _____	0	<input type="checkbox"/> 0.0%																		
10. _____	0	<input type="checkbox"/> 0.0%																		
	116	= Total Cover																		
Woody Vine Stratum (Plot size: 30' r)																				
1. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																
2. _____	0	<input type="checkbox"/> 0.0%																		
	0	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wooded wetland.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		
0-18	10YR	2/1	100						Sandy Clay Loam	
18-24	10YR	6/1	70	10YR	5/6	15	C	M	Sandy Clay Loam	
				10YR	5/1	10	D	M		
				10YR	6/6	5	C	M		

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☒ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

None

Depth (inches):

NA

Hydric Soil Present?

Yes ☒

No ☐

Remarks:

The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☒ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐

No ☒

Depth (inches):

Water Table Present?

Yes ☐

No ☒

Depth (inches):

Saturation Present?

(includes capillary fringe)

Yes ☐

No ☒

Depth (inches):

Wetland Hydrology Present?

Yes ☒

No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 01-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-5**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Summit Local relief (concave, convex, none): convex
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Matherton silt loam (MmA), not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>33.3%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>25</u> x 2 = <u>50</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>85</u> x 4 = <u>340</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>118</u> (A) <u>420</u> (B) Prevalence Index = B/A = <u>3.559</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Solidago canadensis</u>	40	<input checked="" type="checkbox"/> 33.9%	FACU	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Phalaris arundinacea</u>	25	<input checked="" type="checkbox"/> 21.2%	FACW	
3. <u>Monarda fistulosa</u>	25	<input checked="" type="checkbox"/> 21.2%	FACU	
4. <u>Asclepias syriaca</u>	10	<input type="checkbox"/> 8.5%	FACU	
5. <u>Cirsium arvense</u>	5	<input type="checkbox"/> 4.2%	FACU	
6. <u>Poa pratensis</u>	5	<input type="checkbox"/> 4.2%	FAC	
7. <u>Parthenocissus quinquefolia</u>	5	<input type="checkbox"/> 4.2%	FACU	
8. <u>Coronilla varia</u>	3	<input type="checkbox"/> 2.5%	UPL	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	118	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

This point is located in a old field weed plant community.

The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-5

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR	3/1	100				Silty Clay Loam	
10-12	10YR	3/3	100				Silty Clay Loam	
12-20	10YR	3/2	100				Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No
Water Table Present? Yes No
Saturation Present? (includes capillary fringe) Yes No

Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-6**

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E

Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave

Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Matherton silt loam (MmA), not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W10-3	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 15' x 100')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15' x 100')				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>60</u> x 1 = <u>60</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>65</u> x 2 = <u>130</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>3</u> x 4 = <u>12</u>
	0	= Total Cover		UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: 5' r)				Column Totals: <u>128</u> (A) <u>202</u> (B)
1. Phalaris arundinacea	60	<input checked="" type="checkbox"/> 46.9%	FACW	Prevalence Index = B/A = <u>1.578</u>
2. Scirpus atrovirens	30	<input checked="" type="checkbox"/> 23.4%	OBL	
3. Typha angustifolia	30	<input checked="" type="checkbox"/> 23.4%	OBL	
4. Solidago gigantea	5	<input type="checkbox"/> 3.9%	FACW	
5. Parthenocissus quinquefolia	3	<input type="checkbox"/> 2.3%	FACU	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	128	= Total Cover		
Woody Vine Stratum (Plot size: 15' x 100')				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)

This point is located in a plant community representative of a wet meadow / shallow marsh.
The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-14	10YR	2/1	95	7.5YR	4/6	5	C	M	Silty Clay Loam	
14-24	10YR	5/2	90	7.5YR	5/6	10	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☒ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☒ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☒ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-7
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): concave
 Slope: 5.0% 2.9 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Matherton silt loam (MmA), not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☒ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: Area recently filled (permitted fill) within past 2 years for roadway improvements. This is the new normal circumstance. None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>8</u> x 2 = <u>16</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>80</u> x 4 = <u>320</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>93</u> (A) <u>351</u> (B) Prevalence Index = B/A = <u>3.774</u>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Lolium multiflorum</u>	75	<input checked="" type="checkbox"/> 80.6% FACU		
2. <u>Phalaris arundinacea</u>	8	<input type="checkbox"/> 8.6% FACW		
3. <u>Medicago sativa</u>	5	<input type="checkbox"/> 5.4% FACU		
4. <u>Barbarea vulgaris</u>	5	<input type="checkbox"/> 5.4% FAC		
5. _____	0	<input type="checkbox"/> 0.0%		
6. _____	0	<input type="checkbox"/> 0.0%		
7. _____	0	<input type="checkbox"/> 0.0%		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
	93	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
 Vegetation is significantly disturbed due to presence of a nurse crop of annual rye being recently planted.
 The criterion for hydrophytic vegetation is not met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-15	10YR	3/1	100				Silty Clay Loam	fill soil
15-24	10YR	2/1	100				Muck	native soil layer

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil is disturbed as a result of ~15" of fill.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-8**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave
 Slope: 1.0% 0.6° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☒ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: Area recently filled (permitted fill) within past 2 years for roadway improvements. This is the new normal circumstance. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
1. _____	0	<input type="checkbox"/> 0.0%	_____																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																	
	0	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>40</u></td> <td>x 2 = <u>80</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 = <u>30</u></td> </tr> <tr> <td>FACU species <u>60</u></td> <td>x 4 = <u>240</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>110</u></td> <td>(A) <u>350</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.182</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>40</u>	x 2 = <u>80</u>	FAC species <u>10</u>	x 3 = <u>30</u>	FACU species <u>60</u>	x 4 = <u>240</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>110</u>	(A) <u>350</u> (B)	Prevalence Index = B/A = <u>3.182</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>40</u>	x 2 = <u>80</u>																			
FAC species <u>10</u>	x 3 = <u>30</u>																			
FACU species <u>60</u>	x 4 = <u>240</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>110</u>	(A) <u>350</u> (B)																			
Prevalence Index = B/A = <u>3.182</u>																				
1. _____	0	<input type="checkbox"/> 0.0%	_____																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																	
	0	= Total Cover																		
Herb Stratum (Plot size: <u>5' r</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Lolium multiflorum</u>	60	<input checked="" type="checkbox"/> 54.5% FACU																		
2. <u>Phalaris arundinacea</u>	30	<input checked="" type="checkbox"/> 27.3% FACW																		
3. <u>Barbarea vulgaris</u>	10	<input type="checkbox"/> 9.1% FAC																		
4. <u>Persicaria pensylvanica</u>	10	<input type="checkbox"/> 9.1% FACW																		
5. _____	0	<input type="checkbox"/> 0.0%																		
6. _____	0	<input type="checkbox"/> 0.0%																		
7. _____	0	<input type="checkbox"/> 0.0%																		
8. _____	0	<input type="checkbox"/> 0.0%																		
9. _____	0	<input type="checkbox"/> 0.0%																		
10. _____	0	<input type="checkbox"/> 0.0%																		
	110	= Total Cover																		
Woody Vine Stratum (Plot size: <u>30' r</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																
1. _____	0	<input type="checkbox"/> 0.0%																		
2. _____	0	<input type="checkbox"/> 0.0%																		
	0	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)
 Vegetation is significantly disturbed due to presence of a nurse crop of annual rye being recently planted.
 Vegetation at a representative location ~20' south of this point: Herb stratum: Phalaris arundinacea (95%), Impatiens capensis (5%). Based on reference vegetation and presence of hydric soil and wetland hydrology, the criterion for hydrophytic vegetation is met at this point. It is anticipated that under normal circumstances that this area would support a hydrophytic plant community.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-8

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	3/1	100						Silty Clay Loam	fill layer
6-20	10YR	2/1	95	7.5YR	4/6	5	C	M	Peaty Muck	native soil layer
20-24	10YR	4/2	90	7.5YR	4/6	10	C	M	Silt Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☒ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:

Soil is disturbed as a result of ~6" of fill.
The criterion for hydric soil is still met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☒ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-9**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 5.0% 2.9 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. None of the three parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status																	
Tree Stratum (Plot size: 30' r)																				
1. <u>Fraxinus pennsylvanica</u>	5	<input checked="" type="checkbox"/> 62.5%	FACW	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>25.0%</u> (A/B)																
2. <u>Crataegus punctata</u>	3	<input checked="" type="checkbox"/> 37.5%	UPL																	
3. _____	0	<input type="checkbox"/> 0.0%																		
4. _____	0	<input type="checkbox"/> 0.0%																		
5. _____	0	<input type="checkbox"/> 0.0%																		
	8	= Total Cover																		
Sapling/Shrub Stratum (Plot size: 15' r)																				
1. <u>Crataegus punctata</u>	3	<input type="checkbox"/> 100.0%	UPL	Prevalence Index worksheet: <table border="0"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>33</u></td> <td>x 2 = <u>66</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>83</u></td> <td>x 4 = <u>332</u></td> </tr> <tr> <td>UPL species <u>6</u></td> <td>x 5 = <u>30</u></td> </tr> <tr> <td>Column Totals: <u>137</u></td> <td>(A) <u>473</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.453</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>33</u>	x 2 = <u>66</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>83</u>	x 4 = <u>332</u>	UPL species <u>6</u>	x 5 = <u>30</u>	Column Totals: <u>137</u>	(A) <u>473</u> (B)	Prevalence Index = B/A = <u>3.453</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>33</u>	x 2 = <u>66</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>83</u>	x 4 = <u>332</u>																			
UPL species <u>6</u>	x 5 = <u>30</u>																			
Column Totals: <u>137</u>	(A) <u>473</u> (B)																			
Prevalence Index = B/A = <u>3.453</u>																				
2. _____	0	<input type="checkbox"/> 0.0%																		
3. _____	0	<input type="checkbox"/> 0.0%																		
4. _____	0	<input type="checkbox"/> 0.0%																		
5. _____	0	<input type="checkbox"/> 0.0%																		
	3	= Total Cover																		
Herb Stratum (Plot size: 5' r)																				
1. <u>Festuca rubra</u>	50	<input checked="" type="checkbox"/> 39.7%	FACU	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago canadensis</u>	30	<input checked="" type="checkbox"/> 23.8%	FACU																	
3. <u>Agrostis gigantea</u>	20	<input type="checkbox"/> 15.9%	FACW																	
4. <u>Poa pratensis</u>	15	<input type="checkbox"/> 11.9%	FAC																	
5. <u>Euthamia graminifolia</u>	5	<input type="checkbox"/> 4.0%	FACW																	
6. <u>Parthenocissus quinquefolia</u>	3	<input type="checkbox"/> 2.4%	FACU																	
7. <u>Vitis riparia</u>	3	<input type="checkbox"/> 2.4%	FACW																	
8. _____	0	<input type="checkbox"/> 0.0%																		
9. _____	0	<input type="checkbox"/> 0.0%																		
10. _____	0	<input type="checkbox"/> 0.0%																		
	126	= Total Cover																		
Woody Vine Stratum (Plot size: 30' r)																				
1. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>																
2. _____	0	<input type="checkbox"/> 0.0%																		
	0	= Total Cover																		

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-9

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-14	10YR	2/1	100						Silty Clay Loam	
14-24	10YR	5/4	70	10YR	5/8	10	C	M	Silty Clay Loam	
	10YR	2/1	10	10YR	5/1	10	D	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present? (includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-10**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA - Meisc Aeris Epiaqualf) WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W-2	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 25' x 115')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 25' x 28')				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>20</u> x 1 = <u>20</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>92</u> x 2 = <u>184</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>3</u> x 4 = <u>12</u>
	0	= Total Cover		UPL species <u>16</u> x 5 = <u>80</u>
Herb Stratum (Plot size: 5' r)				Column Totals: <u>131</u> (A) <u>296</u> (B)
1. Phalaris arundinacea	90	<input checked="" type="checkbox"/> 68.7% FACW		Prevalence Index = B/A = <u>2.260</u>
2. Typha angustifolia	20	<input type="checkbox"/> 15.3% OBL		
3. Ribes missouriense	8	<input type="checkbox"/> 6.1% UPL		
4. Dipsacus laciniatus	8	<input type="checkbox"/> 6.1% UPL		
5. Solidago canadensis	3	<input type="checkbox"/> 2.3% FACU		
6. Euthamia graminifolia	2	<input type="checkbox"/> 1.5% FACW		
7. _____	0	<input type="checkbox"/> 0.0%		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
	131	= Total Cover		
Woody Vine Stratum (Plot size: 25' x 115')				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation at this point is representative of a wet meadow / shallow marsh plant community. The criterion for hydrophytic vegetation is met at this point.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-10**[illegible]

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required: check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
Field Observations: Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ Saturation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Depth (inches): _____ (includes capillary fringe)		
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos		
Remarks:		
Based on a WETS analysis, antecedent precipitation was a within a normal range. The criterion for hydrology is met at this point.		

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-11

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E

Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex

Slope: 10.0% 5.7° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Matherton silt loam (MmA), not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located on the backslope of a roadside swale. None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	Total % Cover of: Multiply by:
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>13</u> x 2 = <u>26</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>95</u> x 4 = <u>380</u>
	0	= Total Cover		UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: <u>5' r</u>)				Column Totals: <u>108</u> (A) <u>406</u> (B)
1. Bromus inermis	80	<input checked="" type="checkbox"/> 74.1% FACU		Prevalence Index = B/A = <u>3.759</u>
2. Phalaris arundinacea	10	<input type="checkbox"/> 9.3% FACW		
3. Cirsium arvense	5	<input type="checkbox"/> 4.6% FACU		
4. Melilotus alba	5	<input type="checkbox"/> 4.6% FACU		
5. Sonchus arvensis	5	<input type="checkbox"/> 4.6% FACU		
6. Agrostis gigantea	3	<input type="checkbox"/> 2.8% FACW		
7. _____	0	<input type="checkbox"/> 0.0%		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
	108	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. _____	0	<input type="checkbox"/> 0.0%		<input type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-11

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-10	10YR	3/1	100						Silty Clay Loam	
10-20	10YR	5/3	50	10YR	5/2	40	D	M	Sandy Clay Loam	
	10YR	5/4	10							

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

None

Depth (inches):

NA

Hydric Soil Present?

Yes

No

Remarks:

Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes

No

Water Table Present?

Yes

No

Saturation Present?
(includes capillary fringe)

Yes

No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present?

Yes

No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-12
Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
Landform (hillslope, terrace, etc.): Footslope/swale Local relief (concave, convex, none): concave
Slope: 0.0% 0.0° Lat.: _____ Long.: _____ Datum: _____
Soil Map Unit Name: Matherton silt loam (MmA), not hydric WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside swale. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>40' x 70'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Phalaris arundinacea</u>	95	<input checked="" type="checkbox"/> 96.9%	FACW
2. <u>Cirsium arvense</u>	3	<input type="checkbox"/> 3.1%	FACU
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
	98	= Total Cover	
Woody Vine Stratum (Plot size: <u>40' x 70'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>95</u>	x 2 = <u>190</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>3</u>	x 4 = <u>12</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>98</u>	(A) <u>202</u> (B)

Prevalence Index = B/A = 2.061

Hydrophytic Vegetation Indicators:
☒ **1 - Rapid Test for Hydrophytic Vegetation**
☒ **2 - Dominance Test is > 50%**
☒ **3 - Prevalence Index is ≤3.0¹**
☐ **4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation¹ (Explain)**

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
This point is located in a wet meadow.
The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-12

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-15	10YR	3/1	92	10YR	5/2	3	D	M	Silty Clay Loam	
	10YR	5/4	3	7.5YR	5/6	3	C	M		
15-24	10YR	4/2	90	7.5YR	5/6	5	C	M	Silty Clay Loam	
	10YR	2/1	5							

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None
Depth (inches): NA

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐ No ☒

Depth (inches):

Water Table Present?

Yes ☐ No ☒

Depth (inches):

Saturation Present?
(includes capillary fringe)

Yes ☐ No ☒

Depth (inches):

Wetland Hydrology Present?

Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-13**

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E

Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): concave

Slope: 3.0% 1.7° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a basin. None of the parameters have been met at this point. Thus, this point is located in an upland.		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Elymus canadensis</u>	30	<input checked="" type="checkbox"/> 26.5%	FACU
2. <u>Lotus corniculatus</u>	25	<input checked="" type="checkbox"/> 22.1%	FACU
3. <u>Melilotus alba</u>	25	<input checked="" type="checkbox"/> 22.1%	FACU
4. <u>Daucus carota</u>	10	<input type="checkbox"/> 8.8%	UPL
5. <u>Agrostis gigantea</u>	5	<input type="checkbox"/> 4.4%	FACW
6. <u>Plantago major</u>	5	<input type="checkbox"/> 4.4%	FAC
7. <u>Trifolium repens</u>	5	<input type="checkbox"/> 4.4%	FACU
8. <u>Asclepias incarnata</u>	3	<input type="checkbox"/> 2.7%	OBL
9. <u>Ambrosia artemisiifolia</u>	3	<input type="checkbox"/> 2.7%	FACU
10. <u>Rumex crispus</u>	2	<input type="checkbox"/> 1.8%	FAC
113 = Total Cover			
Woody Vine Stratum (Plot size: <u>30' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>3</u>	x 1 = <u>3</u>
FACW species <u>5</u>	x 2 = <u>10</u>
FAC species <u>7</u>	x 3 = <u>21</u>
FACU species <u>88</u>	x 4 = <u>352</u>
UPL species <u>10</u>	x 5 = <u>50</u>
Column Totals: <u>113</u> (A)	<u>436</u> (B)
Prevalence Index = B/A = <u>3.858</u>	

Hydrophytic Vegetation Indicators:
☐ **1 - Rapid Test for Hydrophytic Vegetation**
☐ **2 - Dominance Test is > 50%**
☐ **3 - Prevalence Index is ≤ 3.0¹**
☐ **4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation¹ (Explain)**
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-13

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-10	10YR	2/1	60	5YR	4/4	5	C	M	Silty Clay Loam	
	10YR	3/2	35							
10-20	10YR	5/3	90	10YR	5/6	3	C	M	Silty Clay Loam	
				10YR	6/1	20	D	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

None

Depth (inches):

NA

Hydric Soil Present?

Yes

No

Remarks:

Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes

No

Water Table Present?

Yes

No

Saturation Present?
(includes capillary fringe)

Yes

No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present?

Yes

No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-14**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave
 Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a basin. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																																
1. _____	0	<input type="checkbox"/> 0.0%	_____																																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																																	
0 = Total Cover																																				
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> </thead> <tbody> <tr><td>OBL species</td><td><u>55</u></td><td>x 1 =</td><td><u>55</u></td></tr> <tr><td>FACW species</td><td><u>0</u></td><td>x 2 =</td><td><u>0</u></td></tr> <tr><td>FAC species</td><td><u>3</u></td><td>x 3 =</td><td><u>9</u></td></tr> <tr><td>FACU species</td><td><u>40</u></td><td>x 4 =</td><td><u>160</u></td></tr> <tr><td>UPL species</td><td><u>0</u></td><td>x 5 =</td><td><u>0</u></td></tr> <tr><td>Column Totals:</td><td><u>98</u></td><td>(A)</td><td><u>224</u> (B)</td></tr> <tr><td colspan="4">Prevalence Index = B/A = <u>2.286</u></td></tr> </tbody> </table>	Total % Cover of:		Multiply by:		OBL species	<u>55</u>	x 1 =	<u>55</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>3</u>	x 3 =	<u>9</u>	FACU species	<u>40</u>	x 4 =	<u>160</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>98</u>	(A)	<u>224</u> (B)	Prevalence Index = B/A = <u>2.286</u>			
Total % Cover of:		Multiply by:																																		
OBL species	<u>55</u>	x 1 =	<u>55</u>																																	
FACW species	<u>0</u>	x 2 =	<u>0</u>																																	
FAC species	<u>3</u>	x 3 =	<u>9</u>																																	
FACU species	<u>40</u>	x 4 =	<u>160</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals:	<u>98</u>	(A)	<u>224</u> (B)																																	
Prevalence Index = B/A = <u>2.286</u>																																				
1. _____	0	<input type="checkbox"/> 0.0%	_____																																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																																	
0 = Total Cover																																				
Herb Stratum (Plot size: <u>5' r</u>)				Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
1. <u>Juncus canadensis</u>	50	<input checked="" type="checkbox"/> 51.0%	OBL																																	
2. <u>Elymus canadensis</u>	40	<input checked="" type="checkbox"/> 40.8%	FACU																																	
3. <u>Asclepias incarnata</u>	5	<input type="checkbox"/> 5.1%	OBL																																	
4. <u>Rumex crispus</u>	3	<input type="checkbox"/> 3.1%	FAC																																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																																	
6. _____	0	<input type="checkbox"/> 0.0%	_____																																	
7. _____	0	<input type="checkbox"/> 0.0%	_____																																	
8. _____	0	<input type="checkbox"/> 0.0%	_____																																	
9. _____	0	<input type="checkbox"/> 0.0%	_____																																	
10. _____	0	<input type="checkbox"/> 0.0%	_____																																	
98 = Total Cover																																				
Woody Vine Stratum (Plot size: <u>30' r</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																																
1. _____	0	<input type="checkbox"/> 0.0%	_____																																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																																	
0 = Total Cover																																				

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	3/1	100						Silty Clay Loam	
7-20	10YR	4/2	65	10YR	5/1	30	D	M	Silty Clay Loam	
				7.5YR	4/6	5	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes No

Remarks:
Soil is disturbed due to recent grading to construct the basin. Erosion netting is still present on the ground. The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☒ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range. The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-15**

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E

Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): concave

Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Martinton silt loam (MqA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a basin. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>88</u> x 1 = <u>88</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>88</u> (A) <u>88</u> (B) Prevalence Index = B/A = <u>1.000</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Typha angustifolia</u>	40	<input checked="" type="checkbox"/> 45.5%	OBL	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Schoenoplectus tabernaemontani</u>	30	<input checked="" type="checkbox"/> 34.1%	OBL	
3. <u>Eleocharis obtusa</u>	15	<input type="checkbox"/> 17.0%	OBL	
4. <u>Alisma subcordatum</u>	3	<input type="checkbox"/> 3.4%	OBL	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	88	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)

This point is located in a shallow marsh.

The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-15

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		%	Redox Features				Texture	Remarks	
	Color (moist)			Color (moist)	%	Type ¹	Loc ²			
0-7	10YR	3/2	95	10YR	4/6	5	C	M	Silty Clay Loam	
7-20	10YR	5/3	95	10YR	5/1	5	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☒ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present?

Yes ☒

No ☐

Remarks:

Soil is disturbed due to recent grading to construct the basin. Erosion netting is still present on the ground. The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☒ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐

No ☒

Depth (inches):

Water Table Present?

Yes ☒

No ☐

Depth (inches): 4

Saturation Present?
(includes capillary fringe)

Yes ☒

No ☐

Depth (inches): 0

Wetland Hydrology Present?

Yes ☒

No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range. The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-16**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. Two of the three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>4' x 80'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
1. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
3. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>4' x 80'</u>)				
1. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
3. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>4' x 20'</u>)				
1. <u>Elymus repens</u>	<u>75</u>	<input checked="" type="checkbox"/> 85.2% FACU		
2. <u>Poa pratensis</u>	<u>10</u>	<input type="checkbox"/> 11.4% FAC		
3. <u>Solidago canadensis</u>	<u>3</u>	<input type="checkbox"/> 3.4% FACU		
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
6. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
7. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
8. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
9. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
10. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>88</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>4' x 80'</u>)				
1. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>0</u>	= Total Cover		
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>78</u> x 4 = <u>312</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>88</u> (A) <u>342</u> (B) Prevalence Index = B/A = <u>3.886</u>				
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>				

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-16

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-8	10YR	3/1	100						Silty Clay	
8-20	10YR	5/2	50	10YR	5/1	40	D	M	Silty Clay	
				7.5YR	5/6	10	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☒ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present?
(includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-17**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W-4	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 8' x 350')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 8' x 90')				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: 8' x 10')				
1. Typha angustifolia	75	<input checked="" type="checkbox"/> 84.3%	OBL	
2. Solidago sempervirens	8	<input type="checkbox"/> 9.0%	FACW	
3. Daucus carota	3	<input type="checkbox"/> 3.4%	UPL	
4. Festuca rubra	3	<input type="checkbox"/> 3.4%	FACU	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	89	= Total Cover		
Woody Vine Stratum (Plot size: 8' x 350')				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>75</u>	x 1 = <u>75</u>
FACW species <u>8</u>	x 2 = <u>16</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>3</u>	x 4 = <u>12</u>
UPL species <u>3</u>	x 5 = <u>15</u>
Column Totals: <u>89</u>	(A) <u>118</u> (B)
Prevalence Index = B/A = <u>1.326</u>	

Hydrophytic Vegetation Indicators:

☒ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is > 50%

☒ 3 - Prevalence Index is ≤ 3.0 ¹

☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a shallow marsh.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-17

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	3/2	95	7.5YR	5/4	5	C	M	Silty Clay	
7-20	10YR	5/2	60	7.5YR	4/6	5	C	M	Silty Clay	
	10YR	4/3	35							

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None
Depth (inches): NA

Hydric Soil Present?

Yes ☒ No ☐

Remarks:

Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐ No ☒

Depth (inches):

Water Table Present?

Yes ☐ No ☒

Depth (inches):

Saturation Present?
(includes capillary fringe)

Yes ☐ No ☒

Depth (inches):

Wetland Hydrology Present?

Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-18

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E

Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave

Slope: 0.0% 0.0° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W-5	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>20' x 150'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>20' x 35'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Typha angustifolia</u>	30	<input checked="" type="checkbox"/> 37.5%	OBL
2. <u>Typha X glauca</u>	30	<input checked="" type="checkbox"/> 37.5%	OBL
3. <u>Euthamia graminifolia</u>	15	<input type="checkbox"/> 18.8%	FACW
4. <u>Phalaris arundinacea</u>	5	<input type="checkbox"/> 6.3%	FACW
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
80 = Total Cover			
Woody Vine Stratum (Plot size: <u>20' x 150'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>60</u>	x 1 = <u>60</u>
FACW species <u>20</u>	x 2 = <u>40</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>80</u>	(A) <u>100</u> (B)

 Prevalence Index = B/A = 1.250

Hydrophytic Vegetation Indicators:
☒ **1 - Rapid Test for Hydrophytic Vegetation**
☒ **2 - Dominance Test is > 50%**
☒ **3 - Prevalence Index is ≤ 3.0¹**
☐ **4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation¹ (Explain)**
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

This point is located in a shallow marsh.

The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-18

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-10	10YR	3/1	92	7.5YR	5/6	5	C	M	Silty Clay Loam	
				7.5YR	4/4	3	C	M		
10-20	10YR	5/2	70	7.5YR	5/6	20	C	M	Silty Clay Loam	
	10YR	2/1	10							

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☒ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☒ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 04-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-19
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 25.0% 14.0 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located on a hillside seep on the side of a road. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 8' x 250')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 8' x 90')				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>80</u> x 1 = <u>80</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>19</u> x 2 = <u>38</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>3</u> x 3 = <u>9</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>0</u> x 4 = <u>0</u>
	0	= Total Cover		UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: 8' x 25')				Column Totals: <u>102</u> (A) <u>127</u> (B)
1. <u>Scirpus atrovirens</u>	60	<input checked="" type="checkbox"/> 58.8%	OBL	Prevalence Index = B/A = <u>1.245</u>
2. <u>Schoenoplectus tabernaemontani</u>	15	<input type="checkbox"/> 14.7%	OBL	
3. <u>Phalaris arundinacea</u>	8	<input type="checkbox"/> 7.8%	FACW	
4. <u>Solidago sempervirens</u>	8	<input type="checkbox"/> 7.8%	FACW	
5. <u>Typha angustifolia</u>	5	<input type="checkbox"/> 4.9%	OBL	
6. <u>Agrostis gigantea</u>	3	<input type="checkbox"/> 2.9%	FACW	
7. <u>Hordeum jubatum</u>	3	<input type="checkbox"/> 2.9%	FAC	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	102	= Total Cover		
Woody Vine Stratum (Plot size: 8' x 250')				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
Remarks: (Include photo numbers here or on a separate sheet.) The vegetation at this point is representative of a shallow marsh plant community. The criterion for hydrophytic vegetation is met at this point.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-19

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	3/1	95	7.5YR	4/6	5	C	M	Silty Clay Loam	
6-20	10YR	5/3	40	10YR	5/2	30	D	M	Sandy Clay Loam	
				7.5YR	5/6	15	C	M		
				10YR	5/1	15	D	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☒ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☒ No ☐

Depth (inches):

Depth (inches):

Depth (inches): 0

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was above the normal range.
The criterion for hydrology is met at this point. Soil appears to be episaturated from 0-8 inches. No water table present.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-20**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 10.0% 5.7 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdC2), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: This point is located in a steeply sloped roadside ditch. None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Stratum	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:																								
Tree Stratum (Plot size: 15' x 190')				Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)																								
1. _____	0	<input type="checkbox"/> 0.0%																										
2. _____	0	<input type="checkbox"/> 0.0%																										
3. _____	0	<input type="checkbox"/> 0.0%																										
4. _____	0	<input type="checkbox"/> 0.0%																										
5. _____	0	<input type="checkbox"/> 0.0%																										
0 = Total Cover				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Total % Cover of:</td> <td style="width: 20%;">Multiply by:</td> <td style="width: 40%;"></td> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 =</td> <td><u>5</u></td> </tr> <tr> <td>FACW species <u>3</u></td> <td>x 2 =</td> <td><u>6</u></td> </tr> <tr> <td>FAC species <u>10</u></td> <td>x 3 =</td> <td><u>30</u></td> </tr> <tr> <td>FACU species <u>105</u></td> <td>x 4 =</td> <td><u>420</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 =</td> <td><u>25</u></td> </tr> <tr> <td>Column Totals: <u>128</u></td> <td>(A)</td> <td><u>486</u> (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A = <u>3.797</u></td> </tr> </table>	Total % Cover of:	Multiply by:		OBL species <u>5</u>	x 1 =	<u>5</u>	FACW species <u>3</u>	x 2 =	<u>6</u>	FAC species <u>10</u>	x 3 =	<u>30</u>	FACU species <u>105</u>	x 4 =	<u>420</u>	UPL species <u>5</u>	x 5 =	<u>25</u>	Column Totals: <u>128</u>	(A)	<u>486</u> (B)	Prevalence Index = B/A = <u>3.797</u>		
Total % Cover of:	Multiply by:																											
OBL species <u>5</u>	x 1 =	<u>5</u>																										
FACW species <u>3</u>	x 2 =	<u>6</u>																										
FAC species <u>10</u>	x 3 =	<u>30</u>																										
FACU species <u>105</u>	x 4 =	<u>420</u>																										
UPL species <u>5</u>	x 5 =	<u>25</u>																										
Column Totals: <u>128</u>	(A)	<u>486</u> (B)																										
Prevalence Index = B/A = <u>3.797</u>																												
Sapling/Shrub Stratum (Plot size: 15' x 50')																												
1. _____	0	<input type="checkbox"/> 0.0%																										
2. _____	0	<input type="checkbox"/> 0.0%																										
3. _____	0	<input type="checkbox"/> 0.0%																										
4. _____	0	<input type="checkbox"/> 0.0%																										
5. _____	0	<input type="checkbox"/> 0.0%																										
0 = Total Cover																												
Herb Stratum (Plot size: 5' r)																												
1. <u>Festuca rubra</u>	60	<input checked="" type="checkbox"/> 46.9%	FACU																									
2. <u>Symphyotrichum pilosum</u>	20	<input checked="" type="checkbox"/> 15.6%	FACU																									
3. <u>Solidago canadensis</u>	15	<input type="checkbox"/> 11.7%	FACU																									
4. <u>Elymus repens</u>	10	<input type="checkbox"/> 7.8%	FACU																									
5. <u>Poa pratensis</u>	10	<input type="checkbox"/> 7.8%	FAC																									
6. <u>Carex pellita</u>	5	<input type="checkbox"/> 3.9%	OBL																									
7. <u>Daucus carota</u>	5	<input type="checkbox"/> 3.9%	UPL																									
8. <u>Agrostis gigantea</u>	3	<input type="checkbox"/> 2.3%	FACW																									
9. _____	0	<input type="checkbox"/> 0.0%																										
10. _____	0	<input type="checkbox"/> 0.0%																										
128 = Total Cover																												
Woody Vine Stratum (Plot size: 15' x 190')																												
1. _____	0	<input type="checkbox"/> 0.0%																										
2. _____	0	<input type="checkbox"/> 0.0%																										
0 = Total Cover																												

Hydrophytic Vegetation Indicators:
☐ **1 - Rapid Test for Hydrophytic Vegetation**
☐ **2 - Dominance Test is > 50%**
☐ **3 - Prevalence Index is ≤3.0 ¹**
☐ **4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation ¹ (Explain)**

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-20

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	3/2	100						Silty Clay Loam	
7-20	10YR	5/4	70	10YR	5/6	30	C	M	Silt Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a road fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No
Water Table Present? Yes No
Saturation Present? (includes capillary fringe) Yes No

Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-21
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W-6	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 15' x 190')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15' x 100')				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: 5' r)				
1. Typha angustifolia	90	<input checked="" type="checkbox"/> 90.0%	OBL	
2. Vitis riparia	5	<input type="checkbox"/> 5.0%	FACW	
3. Sonchus arvensis	3	<input type="checkbox"/> 3.0%	FACU	
4. Cirsium arvense	2	<input type="checkbox"/> 2.0%	FACU	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	100	= Total Cover		
Woody Vine Stratum (Plot size: 15' x 190')				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>90</u> x 1 = <u>90</u> FACW species <u>5</u> x 2 = <u>10</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>5</u> x 4 = <u>20</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>100</u> (A) <u>120</u> (B) Prevalence Index = B/A = <u>1.200</u>				
Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>				

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-21

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	4/2	80	7.5YR	4/6	15	C	M	Silty Clay Loam	
	10YR	2/1	5							
7-20	7.5YR	5/3	60	7.5YR	6/2	40	D	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☒ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☒ No ☐

Saturation Present? (includes capillary fringe) Yes ☒ No ☐

Depth (inches):

Depth (inches): 16

Depth (inches): 2

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-22**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 25.0% 14.0° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located on the backslope of a drainage swale. Two of the three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>25' x 200'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>75.0%</u> (A/B)																
1. _____	0	<input type="checkbox"/> 0.0%	_____																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																	
	0	= Total Cover																		
Sapling/Shrub Stratum (Plot size: <u>25' x 28'</u>)				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th>Total % Cover of:</th> <th>Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>43</u></td> <td>x 2 = <u>86</u></td> </tr> <tr> <td>FAC species <u>15</u></td> <td>x 3 = <u>45</u></td> </tr> <tr> <td>FACU species <u>55</u></td> <td>x 4 = <u>220</u></td> </tr> <tr> <td>UPL species <u>5</u></td> <td>x 5 = <u>25</u></td> </tr> <tr> <td>Column Totals: <u>118</u></td> <td>(A) <u>376</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.186</u></td> </tr> </tbody> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>43</u>	x 2 = <u>86</u>	FAC species <u>15</u>	x 3 = <u>45</u>	FACU species <u>55</u>	x 4 = <u>220</u>	UPL species <u>5</u>	x 5 = <u>25</u>	Column Totals: <u>118</u>	(A) <u>376</u> (B)	Prevalence Index = B/A = <u>3.186</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>43</u>	x 2 = <u>86</u>																			
FAC species <u>15</u>	x 3 = <u>45</u>																			
FACU species <u>55</u>	x 4 = <u>220</u>																			
UPL species <u>5</u>	x 5 = <u>25</u>																			
Column Totals: <u>118</u>	(A) <u>376</u> (B)																			
Prevalence Index = B/A = <u>3.186</u>																				
1. <u>Fraxinus pennsylvanica</u>	10	<input checked="" type="checkbox"/> 66.7%	FACW																	
2. <u>Rhamnus cathartica</u>	5	<input checked="" type="checkbox"/> 33.3%	FAC																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																	
	15	= Total Cover																		
Herb Stratum (Plot size: <u>5' r</u>)																				
1. <u>Solidago canadensis</u>	50	<input checked="" type="checkbox"/> 48.5%	FACU																	
2. <u>Ribes americanum</u>	25	<input checked="" type="checkbox"/> 24.3%	FACW																	
3. <u>Poa pratensis</u>	10	<input type="checkbox"/> 9.7%	FAC																	
4. <u>Phalaris arundinacea</u>	5	<input type="checkbox"/> 4.9%	FACW																	
5. <u>Symphotrichum pilosum</u>	5	<input type="checkbox"/> 4.9%	FACU																	
6. <u>Symphotrichum cordifolium</u>	5	<input type="checkbox"/> 4.9%	UPL																	
7. <u>Euthamia graminifolia</u>	3	<input type="checkbox"/> 2.9%	FACW																	
8. _____	0	<input type="checkbox"/> 0.0%	_____																	
9. _____	0	<input type="checkbox"/> 0.0%	_____																	
10. _____	0	<input type="checkbox"/> 0.0%	_____																	
	103	= Total Cover																		
Woody Vine Stratum (Plot size: <u>25' x 200'</u>)																				
1. _____	0	<input type="checkbox"/> 0.0%	_____																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																	
	0	= Total Cover																		

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is > 50%
☐ 3 - Prevalence Index is ≤3.0 ¹
☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation ¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-22

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-4	10YR	4/3	90				Silty Clay Loam		
	10YR	2/1	10						
4-20	10YR	5/4	70	10YR	5/6	5	C	M	Silty Clay Loam
	10YR	3/2	25						

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present?

Yes ☐

No ☒

Remarks:

The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐

No ☒

Depth (inches):

Water Table Present?

Yes ☐

No ☒

Depth (inches):

Saturation Present?
(includes capillary fringe)

Yes ☐

No ☒

Depth (inches):

Wetland Hydrology Present?

Yes ☐

No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-23**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 1.0% 0.6° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a storm water drainage swale on a commercial property. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W-6	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 20' x 200')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 20' x 35')				Prevalence Index worksheet:
1. <u>Frangula alnus</u>	10	<input checked="" type="checkbox"/> 31.3%	FACW	
2. <u>Salix interior</u>	10	<input checked="" type="checkbox"/> 31.3%	FACW	OBL species <u>50</u> x 1 = <u>50</u>
3. <u>Fraxinus pennsylvanica</u>	5	<input type="checkbox"/> 15.6%	FACW	FACW species <u>72</u> x 2 = <u>144</u>
4. <u>Salix amygdaloides</u>	5	<input type="checkbox"/> 15.6%	FACW	FAC species <u>0</u> x 3 = <u>0</u>
5. <u>Ribes hirtellum</u>	2	<input type="checkbox"/> 6.3%	FACW	FACU species <u>0</u> x 4 = <u>0</u>
	32	= Total Cover		UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: 5' r)				Column Totals: <u>122</u> (A) <u>194</u> (B)
1. <u>Typha angustifolia</u>	50	<input checked="" type="checkbox"/> 55.6%	OBL	Prevalence Index = B/A = <u>1.590</u>
2. <u>Ribes hirtellum</u>	20	<input checked="" type="checkbox"/> 22.2%	FACW	
3. <u>Phalaris arundinacea</u>	20	<input checked="" type="checkbox"/> 22.2%	FACW	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	90	= Total Cover		
Woody Vine Stratum (Plot size: 20' x 200')				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-23

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-4	10YR	3/1	90	7.5YR	5/6	10	C	M	Silty Clay Loam	
4-20	10YR	4/2	80	7.5YR	4/6	20	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes No
Water Table Present? Yes No
Saturation Present? (includes capillary fringe) Yes No
Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-24
Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): concave
Slope: 3.0% 1.7 ° Lat.: _____ Long.: _____ Datum: _____
Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	
Herb Stratum (Plot size: <u>5' r</u>)			
1. Lotus corniculatus	75	<input checked="" type="checkbox"/> 63.6%	FACU
2. Solidago canadensis	10	<input type="checkbox"/> 8.5%	FACU
3. Coronilla varia	10	<input type="checkbox"/> 8.5%	UPL
4. Phalaris arundinacea	15	<input type="checkbox"/> 12.7%	FACW
5. Oenothera biennis	8	<input type="checkbox"/> 6.8%	FACU
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
	118	= Total Cover	
Woody Vine Stratum (Plot size: <u>30' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>15</u>	x 2 = <u>30</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>93</u>	x 4 = <u>372</u>
UPL species <u>10</u>	x 5 = <u>50</u>
Column Totals: <u>118</u> (A)	<u>452</u> (B)
Prevalence Index = B/A = <u>3.831</u>	

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☐ 2 - Dominance Test is > 50%
☐ 3 - Prevalence Index is ≤3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
This point is located in a fallow field.
The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-24

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR	4/3	90				Clay Loam	10% pebbles
	10YR	2/1	10					
9-20	10YR	5/3	80				Sandy Clay Loam	25% gravel
	10YR	3/2	20					

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-25
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave
 Slope: 1.0% 0.6° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: E2Kx

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: All three parameters have been met at this point. Thus, this point is located in a wetland. This wetland appears to have developed in fill material.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
_____		0 = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>105</u> x 2 = <u>210</u> FAC species <u>10</u> x 3 = <u>30</u> FACU species <u>23</u> x 4 = <u>92</u> UPL species <u>10</u> x 5 = <u>50</u> Column Totals: <u>148</u> (A) <u>382</u> (B) Prevalence Index = B/A = <u>2.581</u>
1. Salix interior	30	<input checked="" type="checkbox"/> 100.0%	FACW	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
_____		30 = Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. Phalaris arundinacea	70	<input checked="" type="checkbox"/> 59.3%	FACW	
2. Solidago canadensis	20	<input type="checkbox"/> 16.9%	FACU	
3. Coronilla varia	10	<input type="checkbox"/> 8.5%	UPL	
4. Poa pratensis	10	<input type="checkbox"/> 8.5%	FAC	
5. Euthamia graminifolia	5	<input type="checkbox"/> 4.2%	FACW	
6. Cirsium arvense	3	<input type="checkbox"/> 2.5%	FACU	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
_____		118 = Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
_____		0 = Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a scrub shrub.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-25

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	3/2	50						Silty Clay Loam	10% gravel
	10YR	4/3	50							
6-20	10YR	4/2	95	7.5YR	4/6	5	C	M	Silty Clay Loam	20% gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☒ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

Depth (inches):

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-26**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				
1. <u>Salix interior</u>	5	<input checked="" type="checkbox"/> 100.0%	FACW	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	5	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Poa pratensis</u>	40	<input checked="" type="checkbox"/> 40.0%	FAC	
2. <u>Daucus carota</u>	30	<input checked="" type="checkbox"/> 30.0%	UPL	
3. <u>Trifolium repens</u>	15	<input type="checkbox"/> 15.0%	FACU	
4. <u>Phalaris arundinacea</u>	10	<input type="checkbox"/> 10.0%	FACW	
5. <u>Elymus repens</u>	5	<input type="checkbox"/> 5.0%	FACU	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	100	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Hydrophytic Vegetation Indicators:

☐ 1 - Rapid Test for Hydrophytic Vegetation

☒ 2 - Dominance Test is > 50%

☐ 3 - Prevalence Index is ≤3.0 ¹

☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation ¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a fallow field.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-26

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-7	10YR	4/3	50				Silty Clay Loam	
	10YR	4/2	50					
7-20	10YR	4/3	100				Silty Clay Loam	10% gravel

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-27**

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E

Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave

Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: All three parameters have been met at this point. Thus, this point is located in a wetland. This wetland appears to have formed in fill material.		

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>5' x 75'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>5' x 75'</u>)				Prevalence Index worksheet:
1. Salix interior	80	<input checked="" type="checkbox"/> 100.0%	FACW	Total % Cover of: Multiply by:
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>35</u> x 1 = <u>35</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>155</u> x 2 = <u>310</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>0</u> x 4 = <u>0</u>
	80	= Total Cover		UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: <u>5' x 25'</u>)				Column Totals: <u>190</u> (A) <u>345</u> (B)
1. Phalaris arundinacea	60	<input checked="" type="checkbox"/> 54.5%	FACW	Prevalence Index = B/A = <u>1.816</u>
2. Eleocharis obtusa	30	<input checked="" type="checkbox"/> 27.3%	OBL	
3. Salix interior	10	<input type="checkbox"/> 9.1%	FACW	
4. Euthamia graminifolia	5	<input type="checkbox"/> 4.5%	FACW	
5. Typha angustifolia	5	<input type="checkbox"/> 4.5%	OBL	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	110	= Total Cover		
Woody Vine Stratum (Plot size: <u>5' x 75'</u>)				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)

Plot size is based on the size of the wetland.

This point is located in a scrub shrub.

The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-27

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth (inches)	Matrix		%	Redox Features				Texture	Remarks	
	Color (moist)			Color (moist)	%	Type ¹	Loc ²			
0-8	10YR	3/2	95	7.5YR	4/4	5	C	M	Silty Clay	
8-20	10YR	5/3	45	7.5YR	5/6	5	C	M	Silty Clay	
	10YR	5/4	10	10YR	5/2	40	D	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)☐ Sandy Gleyed Matrix (S4)☐ Histic Epipedon (A2)☐ Sandy Redox (S5)☐ Black Histic (A3)☐ Stripped Matrix (S6)☐ Hydrogen Sulfide (A4)☐ Loamy Mucky Mineral (F1)☐ Stratified Layers (A5)☐ Loamy Gleyed Matrix (F2)☐ 2 cm Muck (A10)☐ Depleted Matrix (F3)☐ Depleted Below Dark Surface (A11)☒ Redox Dark Surface (F6)☐ Thick Dark Surface (A12)☐ Depleted Dark Surface (F7)☐ Sandy Muck Mineral (S1)☐ Redox Depressions (F8)☐ 5 cm Mucky Peat or Peat (S3)

Indicators for Problematic Hydric Soils ³:

☐ Coast Prairie Redox (A16)☐ Dark Surface (S7)☐ Iron Manganese Masses (F12)☐ Very Shallow Dark Surface (TF12)☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? **Yes** ☒ **No** ☐

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)☐ Water-Stained Leaves (B9)☐ High Water Table (A2)☐ Aquatic Fauna (B13)☐ Saturation (A3)☐ True Aquatic Plants (B14)☐ Water Marks (B1)☐ Hydrogen Sulfide Odor (C1)☐ Sediment Deposits (B2)☐ Oxidized Rhizospheres on Living Roots (C3)☐ Drift Deposits (B3)☐ Presence of Reduced Iron (C4)☐ Algal Mat or Crust (B4)☐ Recent Iron Reduction in Tilled Soils (C6)☐ Iron Deposits (B5)☐ Thin Muck Surface (C7)☐ Inundation Visible on Aerial Imagery (B7)☐ Gauge or Well Data (D9)☐ Sparsely Vegetated Concave Surface (B8)☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)☐ Drainage Patterns (B10)☐ Dry Season Water Table (C2)☐ Crayfish Burrows (C8)☐ Saturation Visible on Aerial Imagery (C9)☐ Stunted or Stressed Plants (D1)☒ Geomorphic Position (D2)☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒ Depth (inches):

Water Table Present? Yes ☐ No ☒ Depth (inches):

Saturation Present?
(includes capillary fringe) Yes ☐ No ☒ Depth (inches):

Wetland Hydrology Present? **Yes** ☒ **No** ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos
Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-28
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 6.0% 3.4 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a fallow field. Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>7</u> x 2 = <u>14</u> FAC species <u>40</u> x 3 = <u>120</u> FACU species <u>63</u> x 4 = <u>252</u> UPL species <u>3</u> x 5 = <u>15</u> Column Totals: <u>113</u> (A) <u>401</u> (B) Prevalence Index = B/A = <u>3.549</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. Lotus corniculatus	60	<input checked="" type="checkbox"/> 53.1% FACU		
2. Poa pratensis	40	<input checked="" type="checkbox"/> 35.4% FAC		
3. Phalaris arundinacea	5	<input type="checkbox"/> 4.4% FACW		
4. Elymus repens	3	<input type="checkbox"/> 2.7% FACU		
5. Daucus carota	3	<input type="checkbox"/> 2.7% UPL		
6. Agrostis gigantea	2	<input type="checkbox"/> 1.8% FACW		
7. _____	0	<input type="checkbox"/> 0.0%		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
	113	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%		Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
2. _____	0	<input type="checkbox"/> 0.0%		
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a fallow field.
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-28**

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input type="checkbox"/> Dry Season Water Table (C2)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)	
Field Observations: <div> <div> Surface Water Present? Yes <input type="radio"/> No <input checked="" type="radio"/> </div> <div> Depth (inches): _____ </div> </div> <div> <div> Water Table Present? Yes <input type="radio"/> No <input checked="" type="radio"/> </div> <div> Depth (inches): _____ </div> </div> <div> <div> Saturation Present? (includes capillary fringe) Yes <input type="radio"/> No <input checked="" type="radio"/> </div> <div> Depth (inches): _____ </div> </div> <div> Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/> </div>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos		
Remarks:		
Based on a WETS analysis, antecedent precipitation was within a normal range. The criterion for hydrology is not met at this point.		

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-29
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave
 Slope: 0.0% 0.0° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: All three parameters have been met at this point. Thus, this point is located in a wetland. This wetland appears to have developed in fill material.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Carex pellita</u>	60	<input checked="" type="checkbox"/> 42.9%	OBL
2. <u>Juncus tenuis</u>	30	<input checked="" type="checkbox"/> 21.4%	FAC
3. <u>Scirpus atrovirens</u>	20	<input type="checkbox"/> 14.3%	OBL
4. <u>Juncus canadensis</u>	15	<input type="checkbox"/> 10.7%	OBL
5. <u>Phalaris arundinacea</u>	8	<input type="checkbox"/> 5.7%	FACW
6. <u>Euthamia graminifolia</u>	3	<input type="checkbox"/> 2.1%	FACW
7. <u>Solidago sempervirens</u>	2	<input type="checkbox"/> 1.4%	FACW
8. <u>Cirsium vulgare</u>	2	<input type="checkbox"/> 1.4%	FACU
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
140 = Total Cover			
Woody Vine Stratum (Plot size: <u>30' r</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>95</u>	x 1 = <u>95</u>
FACW species <u>13</u>	x 2 = <u>26</u>
FAC species <u>30</u>	x 3 = <u>90</u>
FACU species <u>2</u>	x 4 = <u>8</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>140</u>	(A) <u>219</u> (B)

 Prevalence Index = B/A = 1.564

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is > 50%
☒ 3 - Prevalence Index is ≤ 3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow.
 The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-29

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	4/1	95	7.5YR	4/6	5	C	M	Sandy Clay Loam	20% gravel
7-10	10YR	4/4	100						Sandy Clay Loam	
10-20	10YR	4/1	70	10YR	4/2	20	D	M	Sandy Clay Loam	
	10YR	2/1	5	10YR	5/6	5	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-30
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 5.0% 2.9 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. One of three parameter has not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>12' x 235'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>12' x 60'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Poa pratensis</u>	80	<input checked="" type="checkbox"/> 62.0%	FAC	
2. <u>Elymus repens</u>	15	<input type="checkbox"/> 11.6%	FACU	
3. <u>Cirsium arvense</u>	8	<input type="checkbox"/> 6.2%	FACU	
4. <u>Symphyotrichum novae-angliae</u>	8	<input type="checkbox"/> 6.2%	FACW	
5. <u>Daucus carota</u>	5	<input type="checkbox"/> 3.9%	UPL	
6. <u>Parthenocissus quinquefolia</u>	5	<input type="checkbox"/> 3.9%	FACU	
7. <u>Solidago canadensis</u>	5	<input type="checkbox"/> 3.9%	FACU	
8. <u>Vitis riparia</u>	3	<input type="checkbox"/> 2.3%	FACW	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	129	= Total Cover		
Woody Vine Stratum (Plot size: <u>12' x 235'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>11</u> x 2 = <u>22</u> FAC species <u>80</u> x 3 = <u>240</u> FACU species <u>33</u> x 4 = <u>132</u> UPL species <u>5</u> x 5 = <u>25</u> Column Totals: <u>129</u> (A) <u>419</u> (B) Prevalence Index = B/A = <u>3.248</u>				
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>				

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-30

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	4/2	98	10YR	4/6	2	C	M	Silty Clay Loam	
7-20	10YR	5/4	40	10YR	5/2	20	D	M	Sandy Clay Loam	
	10YR	5/3	40							

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No
Water Table Present? Yes No
Saturation Present? (includes capillary fringe) Yes No

Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 06-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-31
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Houghton muck (HtA), All hydric WWI classification: E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W9-3	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>12' x 350'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>12' x 60'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. Phalaris arundinacea	75	<input checked="" type="checkbox"/> 74.3%	FACW
2. Sonchus arvensis	8	<input type="checkbox"/> 7.9%	FACU
3. Poa pratensis	5	<input type="checkbox"/> 5.0%	FAC
4. Festuca rubra	5	<input type="checkbox"/> 5.0%	FACU
5. Elymus repens	5	<input type="checkbox"/> 5.0%	FACU
6. Verbena hastata	3	<input type="checkbox"/> 3.0%	FACW
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
101 = Total Cover			
Woody Vine Stratum (Plot size: <u>12' x 350'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>78</u>	x 2 = <u>156</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>18</u>	x 4 = <u>72</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>101</u> (A)	<u>243</u> (B)
Prevalence Index = B/A = <u>2.406</u>	

Hydrophytic Vegetation Indicators:
☒ **1 - Rapid Test for Hydrophytic Vegetation**
☒ **2 - Dominance Test is > 50%**
☒ **3 - Prevalence Index is ≤3.0¹**
☐ **4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation¹ (Explain)**
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow.
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-31

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-4	10YR	3/2	100						Sandy Clay Loam	
4-15	10YR	4/1	70	10YR	4/6	10	C	M	Sandy Clay Loam	
	10YR	3/1	10	10YR	5/1	10	D	M		
15-20	10YR	5/4	70	10YR	6/1	15	D	M	Sandy Clay Loam	
				10YR	5/6	15	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:
Surface Water Present? Yes ☐ No ☒ Depth (inches):
Water Table Present? Yes ☐ No ☒ Depth (inches):
Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 18-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-32
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 18 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 5.0% 2.9 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>12' x 75'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	0	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>12' x 75'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Poa pratensis</u>	60	<input checked="" type="checkbox"/> 42.0%	FAC	
2. <u>Cirsium arvense</u>	50	<input checked="" type="checkbox"/> 35.0%	FACU	
3. <u>Asclepias syriaca</u>	15	<input type="checkbox"/> 10.5%	FACU	
4. <u>Elymus repens</u>	10	<input type="checkbox"/> 7.0%	FACU	
5. <u>Phalaris arundinacea</u>	8	<input type="checkbox"/> 5.6%	FACW	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	143	= Total Cover		
Woody Vine Stratum (Plot size: <u>12' x 75'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>8</u> x 2 = <u>16</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>75</u> x 4 = <u>300</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>143</u> (A) <u>496</u> (B) Prevalence Index = B/A = <u>3.469</u>				
Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>				

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-32

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	2/1	100						Silty Clay Loam	
7-20	10YR	4/2	95	10YR	4/6	5	C	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒
Water Table Present? Yes ☐ No ☒
Saturation Present? (includes capillary fringe) Yes ☐ No ☒
Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 18-Aug-14
Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-33
Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 18 T 5N R 22E
Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
Slope: 1.0% 0.6° Lat.: _____ Long.: _____ Datum: _____
Soil Map Unit Name: Morley silt loam (MzdC), Not hydric WWI classification: None
Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>8' x 200'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: <u>8' x 200'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	
Herb Stratum (Plot size: <u>8' x 10'</u>)			
1. <u>Phalaris arundinacea</u>	60	<input checked="" type="checkbox"/> 64.5%	FACW
2. <u>Solidago sempervirens</u>	15	<input type="checkbox"/> 16.1%	FACW
3. <u>Elymus repens</u>	10	<input type="checkbox"/> 10.8%	FACU
4. <u>Poa pratensis</u>	8	<input type="checkbox"/> 8.6%	FAC
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
	93	= Total Cover	
Woody Vine Stratum (Plot size: <u>8' x 200'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
	0	= Total Cover	

Dominance Test worksheet:
Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
Total Number of Dominant Species Across All Strata: 1 (B)
Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>75</u>	x 2 = <u>150</u>
FAC species <u>8</u>	x 3 = <u>24</u>
FACU species <u>10</u>	x 4 = <u>40</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>93</u>	(A) <u>214</u> (B)
Prevalence Index = B/A = <u>2.301</u>	

Hydrophytic Vegetation Indicators:
☒ **1 - Rapid Test for Hydrophytic Vegetation**
☒ **2 - Dominance Test is > 50%**
☒ **3 - Prevalence Index is ≤3.0**¹
☐ **4 - Morphological Adaptations**¹ (Provide supporting data in Remarks or on a separate sheet)
☐ **Problematic Hydrophytic Vegetation**¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
This point is located in a wet meadow.
The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-33

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features					Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-4	10YR	3/1	100					Sandy Clay Loam	
4-12	10YR	4/2	95	10YR	4/6	5	C	M	Sandy Clay Loam
12-20	10YR	4/2	70	10YR	4/6	30	C	M	Sandy Clay Loam

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒
Water Table Present? Yes ☐ No ☒
Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 18-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-34**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 18 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:	
Tree Stratum (Plot size: <u>12' x 200'</u>)				Number of Dominant Species That are OBL, FACW, or FAC: <u>4</u> (A)	
1. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<input checked="" type="checkbox"/> 100.0%	<u>FACW</u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>80.0%</u> (A/B)	
3. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
	<u>10</u>	= Total Cover			
Sapling/Shrub Stratum (Plot size: <u>12' x 75'</u>)				Prevalence Index worksheet:	
1. <u>Fraxinus pennsylvanica</u>	<u>5</u>	<input checked="" type="checkbox"/> 50.0%	<u>FACW</u>	Total % Cover of: Multiply by:	
2. <u>Rhus aromatica</u>	<u>5</u>	<input checked="" type="checkbox"/> 50.0%	<u>UPL</u>	OBL species <u>0</u> x 1 = <u>0</u>	
3. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	FACW species <u>105</u> x 2 = <u>210</u>	
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>	
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	FACU species <u>20</u> x 4 = <u>80</u>	
	<u>10</u>	= Total Cover		UPL species <u>10</u> x 5 = <u>50</u>	
Herb Stratum (Plot size: <u>5' r</u>)				Column Totals: <u>135</u> (A) <u>340</u> (B)	
1. <u>Solidago sempervirens</u>	<u>60</u>	<input checked="" type="checkbox"/> 52.2%	<u>FACW</u>	Prevalence Index = B/A = <u>2.519</u>	
2. <u>Phalaris arundinacea</u>	<u>30</u>	<input checked="" type="checkbox"/> 26.1%	<u>FACW</u>		
3. <u>Cirsium arvense</u>	<u>20</u>	<input type="checkbox"/> 17.4%	<u>FACU</u>		
4. <u>Dipsacus laciniatus</u>	<u>5</u>	<input type="checkbox"/> 4.3%	<u>UPL</u>		
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
6. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
7. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
8. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
9. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
10. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____		
	<u>115</u>	= Total Cover			
Woody Vine Stratum (Plot size: <u>12' x 200'</u>)				Hydrophytic Vegetation Indicators:	
1. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%	
	<u>0</u>	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow.
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-34

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features					Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-6	10YR	3/1	100					Silty Clay Loam	
6-12	10YR	4/2	95	10YR	4/6	5	C	M	Silty Clay Loam
12-20	10YR	2/1	45	10YR	4/6	5	C	M	Silty Clay Loam
	10YR	3/1	45						
	10YR	3/2	5						

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒
Water Table Present? Yes ☐ No ☒
Saturation Present? (includes capillary fringe) Yes ☐ No ☒
Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 18-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-35
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 18 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. None of the three parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 15' x 200')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15' x 50')				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>18</u> x 2 = <u>36</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>15</u> x 3 = <u>45</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>88</u> x 4 = <u>352</u>
	0	= Total Cover		UPL species <u>2</u> x 5 = <u>10</u>
Herb Stratum (Plot size: 5' r)				Column Totals: <u>123</u> (A) <u>443</u> (B)
1. Festuca rubra	80	<input checked="" type="checkbox"/> 65.0% FACU		Prevalence Index = B/A = <u>3.602</u>
2. Poa pratensis	15	<input type="checkbox"/> 12.2% FAC		
3. Agrostis gigantea	10	<input type="checkbox"/> 8.1% FACW		
4. Solidago canadensis	8	<input type="checkbox"/> 6.5% FACU		
5. Euthamia graminifolia	5	<input type="checkbox"/> 4.1% FACW		
6. Symphyotrichum novae-angliae	3	<input type="checkbox"/> 2.4% FACW		
7. Daucus carota	2	<input type="checkbox"/> 1.6% UPL		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
	123	= Total Cover		
Woody Vine Stratum (Plot size: 15' x 200')				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-35

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	3/2	100						Silty Clay	
7-20	10YR	5/3	90	10YR	6/1	5	D	M	Silty Clay Loam	
				10YR	5/6	5	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

None

Depth (inches):

NA

Hydric Soil Present?

Yes

No

Remarks:

Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes

No

Water Table Present?

Yes

No

Saturation Present?
(includes capillary fringe)

Yes

No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present?

Yes

No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 18-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-36
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 18 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 285'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>10' x 70'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Typha angustifolia</u>	60	<input checked="" type="checkbox"/> 53.1%	OBL
2. <u>Agrostis gigantea</u>	20	<input type="checkbox"/> 17.7%	FACW
3. <u>Solidago canadensis</u>	15	<input type="checkbox"/> 13.3%	FACU
4. <u>Festuca rubra</u>	5	<input type="checkbox"/> 4.4%	FACU
5. <u>Achillea millefolium</u>	5	<input type="checkbox"/> 4.4%	FACU
6. <u>Symphytotrichum puniceum</u>	5	<input type="checkbox"/> 4.4%	OBL
7. <u>Daucus carota</u>	3	<input type="checkbox"/> 2.7%	UPL
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
113 = Total Cover			
Woody Vine Stratum (Plot size: <u>10' x 285'</u>)			
1. <u>Vitis riparia</u>	5	<input type="checkbox"/> 100.0%	FACW
2. _____	0	<input type="checkbox"/> 0.0%	_____
5 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>65</u>	x 1 = <u>65</u>
FACW species <u>25</u>	x 2 = <u>50</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>25</u>	x 4 = <u>100</u>
UPL species <u>3</u>	x 5 = <u>15</u>
Column Totals: <u>118</u> (A)	<u>230</u> (B)
Prevalence Index = B/A = <u>1.949</u>	

Hydrophytic Vegetation Indicators:
☒ **1 - Rapid Test for Hydrophytic Vegetation**
☒ **2 - Dominance Test is > 50%**
☒ **3 - Prevalence Index is ≤3.0 ¹**
☐ **4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)**
☐ **Problematic Hydrophytic Vegetation ¹ (Explain)**
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-36

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-7	10YR	4/1	90	10YR	4/6	10	C	M	Silty Clay Loam	
7-20	10YR	5/3	80	10YR	6/1	10	D	M	Silty Clay Loam	
				10YR	5/6	10	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

Secondary Indicators (minimum of two required)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No
Water Table Present? Yes No
Saturation Present? (includes capillary fringe) Yes No

Depth (inches):
Depth (inches):
Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-37**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 5.0% 2.9 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located on the backslope of roadside ditch. None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>20' x 140'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>20' x 35'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>25</u> x 2 = <u>50</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>75</u> x 4 = <u>300</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>110</u> (A) <u>360</u> (B) Prevalence Index = B/A = <u>3.273</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Ambrosia artemisiifolia</u>	60	<input checked="" type="checkbox"/> 54.5%	FACU	
2. <u>Phalaris arundinacea</u>	25	<input checked="" type="checkbox"/> 22.7%	FACW	
3. <u>Carex pellita</u>	10	<input type="checkbox"/> 9.1%	OBL	
4. <u>Sonchus arvensis</u>	10	<input type="checkbox"/> 9.1%	FACU	
5. <u>Asclepias verticillata</u>	5	<input type="checkbox"/> 4.5%	FACU	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	110	= Total Cover		
Woody Vine Stratum (Plot size: <u>20' x 140'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Hydrophytic Vegetation Present? Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is not met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-37

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-9	10YR	3/1	100				Sandy Clay Loam	30% gravel
9-20	10YR	4/4	100				Loamy Sand	

Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present?

Yes

No

Remarks:

Soil appears to be a roadside fill and thus disturbed. The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes

No

Water Table Present?

Yes

No

Saturation Present?
(includes capillary fringe)

Yes

No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present?

Yes

No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range. The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-38
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>20' x 140'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	0
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>20' x 35'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. <u>Salix discolor</u>	15	<input checked="" type="checkbox"/> 100.0%	FACW
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
15 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. <u>Typha angustifolia</u>	60	<input checked="" type="checkbox"/> 51.3%	OBL
2. <u>Typha X glauca</u>	30	<input checked="" type="checkbox"/> 25.6%	OBL
3. <u>Solidago sempervirens</u>	8	<input type="checkbox"/> 6.8%	FACW
4. <u>Phalaris arundinacea</u>	5	<input type="checkbox"/> 4.3%	FACW
5. <u>Euthamia graminifolia</u>	5	<input type="checkbox"/> 4.3%	FACW
6. <u>Agrostis gigantea</u>	3	<input type="checkbox"/> 2.6%	FACW
7. <u>Carex pellita</u>	3	<input type="checkbox"/> 2.6%	OBL
8. <u>Sonchus arvensis</u>	3	<input type="checkbox"/> 2.6%	FACU
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
117 = Total Cover			
Woody Vine Stratum (Plot size: <u>20' x 140'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>93</u>	x 1 = <u>93</u>
FACW species <u>36</u>	x 2 = <u>72</u>
FAC species <u>0</u>	x 3 = <u>0</u>
FACU species <u>3</u>	x 4 = <u>12</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>132</u>	(A) <u>177</u> (B)
Prevalence Index = B/A = <u>1.341</u>	

Hydrophytic Vegetation Indicators:
☒ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is > 50%
☒ 3 - Prevalence Index is ≤ 3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: **SP-38**

[illegible]

HYDROLOGY

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> True Aquatic Plants (B14)	<input checked="" type="checkbox"/> Dry Season Water Table (C2)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Gauge or Well Data (D9)		
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Other (Explain in Remarks)		
Field Observations:			
Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches):	
Water Table Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches):	16
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches):	0
		Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos			
Remarks:			
Based on a WETS analysis, antecedent precipitation was within a normal range. The criterion for hydrology is met at this point.			

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-39
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 6.0% 3.4 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdC2), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>12' x 75'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>12' x 75'</u>)			
1. <u>Zanthoxylum americanum</u>	10	<input checked="" type="checkbox"/> 50.0%	FACU
2. <u>Cornus obliqua</u>	5	<input checked="" type="checkbox"/> 25.0%	FACW
3. <u>Rhamnus cathartica</u>	5	<input checked="" type="checkbox"/> 25.0%	FAC
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
20 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Festuca rubra</u>	80	<input checked="" type="checkbox"/> 84.2%	FACU
2. <u>Agrostis gigantea</u>	10	<input type="checkbox"/> 10.5%	FACW
3. <u>Solidago canadensis</u>	5	<input type="checkbox"/> 5.3%	FACU
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
6. _____	0	<input type="checkbox"/> 0.0%	_____
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
95 = Total Cover			
Woody Vine Stratum (Plot size: <u>12' x 75'</u>)			
1. <u>Vitis riparia</u>	10	<input type="checkbox"/> 100.0%	FACW
2. _____	0	<input type="checkbox"/> 0.0%	_____
10 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 5 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 60.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>25</u>	x 2 = <u>50</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>95</u>	x 4 = <u>380</u>
UPL species <u>0</u>	x 5 = <u>0</u>
Column Totals: <u>125</u> (A)	<u>445</u> (B)
Prevalence Index = B/A = <u>3.560</u>	

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is > 50%
☐ 3 - Prevalence Index is ≤3.0 ¹
☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation ¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-39

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	3/2	100						Sandy Clay Loam	
6-20	10YR	5/3	70	10YR	6/1	20	D	M	Sandy Clay Loam	
				7.5YR	5/6	10	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type:

None

Depth (inches):

NA

Hydric Soil Present?

Yes

No

Remarks:

Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes

No

Water Table Present?

Yes

No

Saturation Present?
(includes capillary fringe)

Yes

No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present?

Yes

No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-40
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdC2), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>15' x 190'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. <u>Fraxinus pennsylvanica</u>	<u>3</u>	<input checked="" type="checkbox"/> 100.0%	<u>FACW</u>	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
3. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>3</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' x 50'</u>)				
1. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
3. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
4. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
5. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Agrostis gigantea</u>	<u>50</u>	<input checked="" type="checkbox"/> 42.4%	<u>FACW</u>	
2. <u>Typha angustifolia</u>	<u>30</u>	<input checked="" type="checkbox"/> 25.4%	<u>OBL</u>	
3. <u>Festuca rubra</u>	<u>10</u>	<input type="checkbox"/> 8.5%	<u>FACU</u>	
4. <u>Solidago canadensis</u>	<u>10</u>	<input type="checkbox"/> 8.5%	<u>FACU</u>	
5. <u>Symphyotrichum novae-angliae</u>	<u>8</u>	<input type="checkbox"/> 6.8%	<u>FACW</u>	
6. <u>Euthamia graminifolia</u>	<u>5</u>	<input type="checkbox"/> 4.2%	<u>FACW</u>	
7. <u>Poa pratensis</u>	<u>5</u>	<input type="checkbox"/> 4.2%	<u>FAC</u>	
8. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
9. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
10. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>118</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>15' x 190'</u>)				
1. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
2. _____	<u>0</u>	<input type="checkbox"/> 0.0%	_____	
	<u>0</u>	= Total Cover		
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>30</u> x 1 = <u>30</u> FACW species <u>66</u> x 2 = <u>132</u> FAC species <u>5</u> x 3 = <u>15</u> FACU species <u>20</u> x 4 = <u>80</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>121</u> (A) <u>257</u> (B) Prevalence Index = B/A = <u>2.124</u>				
Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.				
Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>				

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow.
 The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-40

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-6	10YR	3/2	100				Sandy Clay Loam		
6-12	10YR	4/2	80	7.5YR	4/6	20	C	M	Sandy Clay Loam
12-20	10YR	5/4	95						Sandy Clay Loam
	10YR	6/3	50						

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☒ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present? (includes capillary fringe) Yes No

Depth (inches):

Depth (inches): 10

Depth (inches): 0

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-41

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E

Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave

Slope: 0.0% 0.0 ° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside ditch. Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>15' x 190'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15' x 50'</u>)			
1. <u>Ulmus americana</u>	5	<input checked="" type="checkbox"/> 100.0%	FACW
2. _____	_____	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
5 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Solidago canadensis</u>	40	<input checked="" type="checkbox"/> 26.1%	FACU
2. <u>Poa pratensis</u>	40	<input checked="" type="checkbox"/> 26.1%	FAC
3. <u>Daucus carota</u>	30	<input type="checkbox"/> 19.6%	UPL
4. <u>Symphyotrichum lateriflorum</u>	10	<input type="checkbox"/> 6.5%	FACW
5. <u>Symphyotrichum novae-angliae</u>	10	<input type="checkbox"/> 6.5%	FACW
6. <u>Symphyotrichum cordifolium</u>	8	<input type="checkbox"/> 5.2%	UPL
7. <u>Cornus racemosa</u>	5	<input type="checkbox"/> 3.3%	FAC
8. <u>Prunus serotina</u>	5	<input type="checkbox"/> 3.3%	FACU
9. <u>Fragaria virginiana</u>	5	<input type="checkbox"/> 3.3%	FACU
10. _____	0	<input type="checkbox"/> 0.0%	_____
153 = Total Cover			
Woody Vine Stratum (Plot size: <u>15' x 190'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>0</u>	x 1 = <u>0</u>
FACW species <u>25</u>	x 2 = <u>50</u>
FAC species <u>45</u>	x 3 = <u>135</u>
FACU species <u>50</u>	x 4 = <u>200</u>
UPL species <u>38</u>	x 5 = <u>190</u>
Column Totals: <u>158</u> (A)	<u>575</u> (B)
Prevalence Index = B/A = <u>3.639</u>	

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is > 50%
☐ 3 - Prevalence Index is ≤ 3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-41

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-8	10YR	3/2	100						Silty Clay Loam	
8-20	10YR	5/3	50	10YR	6/1	40	D	M	Silty Clay Loam	
				7.5YR	5/6	20	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:

Soil appears to be a roadside fill and thus disturbed. The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present? (includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range. The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-42

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E

Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave

Slope: 1.0% 0.6° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 285'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>10' x 150'</u>)			
1. <u>Cornus racemosa</u>	5	<input checked="" type="checkbox"/> 62.5%	FAC
2. <u>Ulmus americana</u>	3	<input checked="" type="checkbox"/> 37.5%	FACW
3. _____	0	<input type="checkbox"/> 0.0%	_____
4. _____	0	<input type="checkbox"/> 0.0%	_____
5. _____	0	<input type="checkbox"/> 0.0%	_____
8 = Total Cover			
Herb Stratum (Plot size: <u>5' r</u>)			
1. <u>Phalaris arundinacea</u>	80	<input checked="" type="checkbox"/> 53.0%	FACW
2. <u>Typha angustifolia</u>	40	<input checked="" type="checkbox"/> 26.5%	OBL
3. <u>Symphyotrichum novae-angliae</u>	15	<input type="checkbox"/> 9.9%	FACW
4. <u>Carex stipata</u>	8	<input type="checkbox"/> 5.3%	OBL
5. <u>Lycopus americanus</u>	5	<input type="checkbox"/> 3.3%	OBL
6. <u>Daucus carota</u>	3	<input type="checkbox"/> 2.0%	UPL
7. _____	0	<input type="checkbox"/> 0.0%	_____
8. _____	0	<input type="checkbox"/> 0.0%	_____
9. _____	0	<input type="checkbox"/> 0.0%	_____
10. _____	0	<input type="checkbox"/> 0.0%	_____
151 = Total Cover			
Woody Vine Stratum (Plot size: <u>10' x 285'</u>)			
1. _____	0	<input type="checkbox"/> 0.0%	_____
2. _____	0	<input type="checkbox"/> 0.0%	_____
0 = Total Cover			

Dominance Test worksheet:
 Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
 Total Number of Dominant Species Across All Strata: 4 (B)
 Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species <u>53</u>	x 1 = <u>53</u>
FACW species <u>98</u>	x 2 = <u>196</u>
FAC species <u>5</u>	x 3 = <u>15</u>
FACU species <u>0</u>	x 4 = <u>0</u>
UPL species <u>3</u>	x 5 = <u>15</u>
Column Totals: <u>159</u>	(A) <u>279</u> (B)
Prevalence Index = B/A = <u>1.755</u>	

Hydrophytic Vegetation Indicators:
☐ 1 - Rapid Test for Hydrophytic Vegetation
☒ 2 - Dominance Test is > 50%
☒ 3 - Prevalence Index is ≤ 3.0 ¹
☐ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation ¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

This point is located in a wet meadow plant community.

The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Sampling Point: **SP-42**

Wetland Hydrology Indicators:			
Primary Indicators (minimum of one is required; check all that apply)		Secondary Indicators (minimum of two required)	
<input type="checkbox"/> Surface Water (A1) <input checked="" type="checkbox"/> High Water Table (A2) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations:			
Surface Water Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
Water Table Present?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches): <u> 11 </u>	
Saturation Present? (includes capillary fringe)	Yes <input checked="" type="radio"/> No <input type="radio"/>	Depth (inches): <u> 0 </u>	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
 The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-43**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/> Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>8' x 75'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:																								
1. _____	0	<input type="checkbox"/> 0.0%		Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																								
2. _____	0	<input type="checkbox"/> 0.0%																										
3. _____	0	<input type="checkbox"/> 0.0%																										
4. _____	0	<input type="checkbox"/> 0.0%																										
5. _____	0	<input type="checkbox"/> 0.0%																										
	0	= Total Cover																										
Sapling/Shrub Stratum (Plot size: <u>8' x 75'</u>)				Prevalence Index worksheet: <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Total % Cover of:</td> <td style="width: 30%;">Multiply by:</td> <td style="width: 40%;"></td> </tr> <tr> <td>OBL species <u>75</u></td> <td>x 1 =</td> <td><u>75</u></td> </tr> <tr> <td>FACW species <u>80</u></td> <td>x 2 =</td> <td><u>160</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 =</td> <td><u>0</u></td> </tr> <tr> <td>FACU species <u>5</u></td> <td>x 4 =</td> <td><u>20</u></td> </tr> <tr> <td>UPL species <u>3</u></td> <td>x 5 =</td> <td><u>15</u></td> </tr> <tr> <td>Column Totals: <u>163</u></td> <td>(A)</td> <td><u>270</u> (B)</td> </tr> <tr> <td colspan="3">Prevalence Index = B/A = <u>1.656</u></td> </tr> </table>	Total % Cover of:	Multiply by:		OBL species <u>75</u>	x 1 =	<u>75</u>	FACW species <u>80</u>	x 2 =	<u>160</u>	FAC species <u>0</u>	x 3 =	<u>0</u>	FACU species <u>5</u>	x 4 =	<u>20</u>	UPL species <u>3</u>	x 5 =	<u>15</u>	Column Totals: <u>163</u>	(A)	<u>270</u> (B)	Prevalence Index = B/A = <u>1.656</u>		
Total % Cover of:	Multiply by:																											
OBL species <u>75</u>	x 1 =	<u>75</u>																										
FACW species <u>80</u>	x 2 =	<u>160</u>																										
FAC species <u>0</u>	x 3 =	<u>0</u>																										
FACU species <u>5</u>	x 4 =	<u>20</u>																										
UPL species <u>3</u>	x 5 =	<u>15</u>																										
Column Totals: <u>163</u>	(A)	<u>270</u> (B)																										
Prevalence Index = B/A = <u>1.656</u>																												
1. _____	0	<input type="checkbox"/> 0.0%																										
2. _____	0	<input type="checkbox"/> 0.0%																										
3. _____	0	<input type="checkbox"/> 0.0%																										
4. _____	0	<input type="checkbox"/> 0.0%																										
5. _____	0	<input type="checkbox"/> 0.0%																										
	0	= Total Cover																										
Herb Stratum (Plot size: <u>8' x 10'</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																								
1. <u>Typha angustifolia</u>	75	<input checked="" type="checkbox"/> 46.0%	OBL																									
2. <u>Euthamia graminifolia</u>	40	<input checked="" type="checkbox"/> 24.5%	FACW																									
3. <u>Agrostis stolonifera</u>	25	<input type="checkbox"/> 15.3%	FACW																									
4. <u>Solidago sempervirens</u>	15	<input type="checkbox"/> 9.2%	FACW																									
5. <u>Solidago canadensis</u>	5	<input type="checkbox"/> 3.1%	FACU																									
6. <u>Daucus carota</u>	3	<input type="checkbox"/> 1.8%	UPL																									
7. _____	0	<input type="checkbox"/> 0.0%																										
8. _____	0	<input type="checkbox"/> 0.0%																										
9. _____	0	<input type="checkbox"/> 0.0%																										
10. _____	0	<input type="checkbox"/> 0.0%																										
	0	= Total Cover																										
Woody Vine Stratum (Plot size: <u>8' x 75'</u>)																												
1. _____	0	<input type="checkbox"/> 0.0%																										
2. _____	0	<input type="checkbox"/> 0.0%																										
	0	= Total Cover																										

Remarks: (Include photo numbers here or on a separate sheet.)
 The size of the plot is based on the size of the wetland.
 This point is located in a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-43

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)		%	Color (moist)		%	Type ¹	Loc ²		
0-6	10YR	5/2	95	7.5YR	4/6	5	C	M	Silty Clay Loam	
6-20	10YR	6/4	90	7.5YR	5/6	5	C	M	Sandy Clay Loam	
				10YR	6/1	5	D	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☒ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☒ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☒ No ☐

Saturation Present?
(includes capillary fringe) Yes ☒ No ☐

Depth (inches):

Depth (inches): 17

Depth (inches): 0

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-44**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Backslope Local relief (concave, convex, none): convex
 Slope: 5.0% 2.9 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdB), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	0	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>33</u> x 2 = <u>66</u> FAC species <u>60</u> x 3 = <u>180</u> FACU species <u>26</u> x 4 = <u>104</u> UPL species <u>23</u> x 5 = <u>115</u> Column Totals: <u>142</u> (A) <u>465</u> (B) Prevalence Index = B/A = <u>3.275</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Poa pratensis</u>	60	<input checked="" type="checkbox"/> 42.3%	FAC	
2. <u>Symphyotrichum lateriflorum</u>	30	<input checked="" type="checkbox"/> 21.1%	FACW	
3. <u>Coronilla varia</u>	20	<input type="checkbox"/> 14.1%	UPL	
4. <u>Elymus repens</u>	20	<input type="checkbox"/> 14.1%	FACU	
5. <u>Ambrosia artemisiifolia</u>	3	<input type="checkbox"/> 2.1%	FACU	
6. <u>Erigeron philadelphicus</u>	3	<input type="checkbox"/> 2.1%	FACW	
7. <u>Daucus carota</u>	3	<input type="checkbox"/> 2.1%	UPL	
8. <u>Festuca rubra</u>	3	<input type="checkbox"/> 2.1%	FACU	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	142	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-44

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-8	10YR	3/2	100						Silty Clay Loam	
8-20	10YR	4/4	90	10YR	5/1	10	D	M	Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-45
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 19 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdB), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: 20' x 140')	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: 20' x 35')				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>105</u> x 2 = <u>210</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>10</u> x 4 = <u>40</u>
	0	= Total Cover		UPL species <u>3</u> x 5 = <u>15</u>
Herb Stratum (Plot size: 5' r)				Column Totals: <u>118</u> (A) <u>265</u> (B)
1. Phalaris arundinacea	70	<input checked="" type="checkbox"/> 59.3%	FACW	Prevalence Index = B/A = <u>2.246</u>
2. Agrostis gigantea	30	<input checked="" type="checkbox"/> 25.4%	FACW	
3. Elymus repens	10	<input type="checkbox"/> 8.5%	FACU	
4. Symphyotrichum lateriflorum	5	<input type="checkbox"/> 4.2%	FACW	
5. Daucus carota	3	<input type="checkbox"/> 2.5%	UPL	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	118	= Total Cover		
Woody Vine Stratum (Plot size: 20' x 140')				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input checked="" type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow plant community.
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-45

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	3/1	100						Silty Clay Loam	
6-20	10YR	6/1	70	7.5YR	5/6	30	C	M	Silty Clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:
☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):
Type: None
Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a fill soil and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☒ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)
☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☒ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No
Water Table Present? Yes No
Saturation Present? (includes capillary fringe) Yes No

Depth (inches):
18
0

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-46
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 6.0% 3.4 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Blount silt loam (BIA), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a roadside swale. Two of three parameters have not been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 200'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>10' x 70'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Solidago canadensis</u>	60	<input checked="" type="checkbox"/> 38.0% FACU		
2. <u>Symphyotrichum novae-angliae</u>	30	<input checked="" type="checkbox"/> 19.0% FACW		
3. <u>Geum canadense</u>	30	<input checked="" type="checkbox"/> 19.0% FAC		
4. <u>Fragaria virginiana</u>	20	<input type="checkbox"/> 12.7% FACU		
5. <u>Poa pratensis</u>	10	<input type="checkbox"/> 6.3% FAC		
6. <u>Phalaris arundinacea</u>	5	<input type="checkbox"/> 3.2% FACW		
7. <u>Achillea millefolium</u>	3	<input type="checkbox"/> 1.9% FACU		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
	158	= Total Cover		
Woody Vine Stratum (Plot size: <u>10' x 200'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%		
2. _____	0	<input type="checkbox"/> 0.0%		
	0	= Total Cover		

Prevalence Index worksheet:		
Total % Cover of:	Multiply by:	
OBL species <u>0</u>	x 1 =	<u>0</u>
FACW species <u>35</u>	x 2 =	<u>70</u>
FAC species <u>40</u>	x 3 =	<u>120</u>
FACU species <u>83</u>	x 4 =	<u>332</u>
UPL species <u>0</u>	x 5 =	<u>0</u>
Column Totals: <u>158</u>	(A)	<u>522</u> (B)
Prevalence Index = B/A = <u>3.304</u>		

Hydrophytic Vegetation Indicators:	
<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation	
<input checked="" type="checkbox"/> 2 - Dominance Test is > 50%	
<input type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹	
<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	
<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)	
¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.	

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>

Remarks: (Include photo numbers here or on a separate sheet.)
 The criterion for hydrophytic vegetation is met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-46

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-6	10YR	3/1	100						Silty Clay Loam	
6-20	10YR	5/3	70	10YR	6/1	20	D	M	Silty Clay Loam	
				10YR	5/2	5	D	M		
				10YR	5/6	5	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-47
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>6' x 450'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>6' x 120'</u>)				Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>5</u> x 1 = <u>5</u> FACW species <u>90</u> x 2 = <u>180</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>15</u> x 4 = <u>60</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>110</u> (A) <u>245</u> (B) Prevalence Index = B/A = <u>2.227</u>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				
Herb Stratum (Plot size: <u>6' x 14'</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Agrostis gigantea</u>	75	<input checked="" type="checkbox"/> 68.2% FACW		
2. <u>Phalaris arundinacea</u>	15	<input type="checkbox"/> 13.6% FACW		
3. <u>Festuca rubra</u>	10	<input type="checkbox"/> 9.1% FACU		
4. <u>Elymus repens</u>	5	<input type="checkbox"/> 4.5% FACU		
5. <u>Symphyotrichum puniceum</u>	5	<input type="checkbox"/> 4.5% OBL		
6. _____	0	<input type="checkbox"/> 0.0%		
7. _____	0	<input type="checkbox"/> 0.0%		
8. _____	0	<input type="checkbox"/> 0.0%		
9. _____	0	<input type="checkbox"/> 0.0%		
10. _____	0	<input type="checkbox"/> 0.0%		
110 = Total Cover				
Woody Vine Stratum (Plot size: <u>6' x 450'</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
0 = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow plant community.
 The criterion for hydrophytic vegetation is met at this point.

¹ Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-47

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features						Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²				
0-9	10YR	3/2	95	7.5YR	5/6	5	C	M,PL	Silty Clay Loam	
9-20	10YR	5/3	80	10YR	5/2	10	D	M	Silty Clay Loam	
				10YR	5/1	5	D	M		
				7.5YR	5/6	5	C	M		

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☒ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☒ High Water Table (A2)

☒ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches): 6

Depth (inches): 0

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14

Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-48

Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E

Landform (hillslope, terrace, etc.): Summit/mound Local relief (concave, convex, none): convex

Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____

Soil Map Unit Name: Ashkum silty clay loam (AsA), All hydric WWI classification: E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)

Are Vegetation ☒ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐

Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: Construction has altered this area within the past two years. Current condition is the new normal. None of the parameters have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____	0	<input type="checkbox"/> 0.0%	_____	Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				Prevalence Index worksheet:
1. _____	0	<input type="checkbox"/> 0.0%	_____	Total % Cover of: Multiply by:
2. _____	0	<input type="checkbox"/> 0.0%	_____	OBL species <u>0</u> x 1 = <u>0</u>
3. _____	0	<input type="checkbox"/> 0.0%	_____	FACW species <u>5</u> x 2 = <u>10</u>
4. _____	0	<input type="checkbox"/> 0.0%	_____	FAC species <u>0</u> x 3 = <u>0</u>
5. _____	0	<input type="checkbox"/> 0.0%	_____	FACU species <u>115</u> x 4 = <u>460</u>
	0	= Total Cover		UPL species <u>0</u> x 5 = <u>0</u>
Herb Stratum (Plot size: <u>5' r</u>)				Column Totals: <u>120</u> (A) <u>470</u> (B)
1. Festuca rubra	70	<input checked="" type="checkbox"/> 58.3%	FACU	Prevalence Index = B/A = <u>3.917</u>
2. Lolium multiflorum	40	<input checked="" type="checkbox"/> 33.3%	FACU	
3. Cirsium arvense	5	<input type="checkbox"/> 4.2%	FACU	
4. Phalaris arundinacea	5	<input type="checkbox"/> 4.2%	FACW	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	120	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				Hydrophytic Vegetation Indicators:
1. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation
2. _____	0	<input type="checkbox"/> 0.0%	_____	<input type="checkbox"/> 2 - Dominance Test is > 50%
	0	= Total Cover		<input type="checkbox"/> 3 - Prevalence Index is ≤ 3.0 ¹
				<input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
Remarks: (Include photo numbers here or on a separate sheet.) Vegetation is disturbed due to recent construction and planting of cool season grasses. The criterion for hydrophytic vegetation is not met at this point.				

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-48

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-10	10YR	3/1	100				Silty Clay Loam	
10-24	10YR	3/2	100				Silty Clay Loam	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes No

Remarks:
Soil is disturbed due to recent construction and grading.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☐ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes No

Water Table Present? Yes No

Saturation Present?
(includes capillary fringe) Yes No

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes No

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-49
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): concave
 Slope: 2.0% 1.1° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Martinton silt loam (MqA), Not hydric WWI classification: E2K

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: All three parameters have been met at this point. Thus, this point is located in a wetland. Wetland ID: W10-1	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>30' r</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>1</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>100</u> x 2 = <u>200</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>3</u> x 4 = <u>12</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>103</u> (A) <u>212</u> (B) Prevalence Index = B/A = <u>2.058</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Phalaris arundinacea</u>	100	<input checked="" type="checkbox"/> 97.1%	FACW	Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Cirsium arvense</u>	3	<input type="checkbox"/> 2.9%	FACU	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	103	= Total Cover		
Woody Vine Stratum (Plot size: <u>30' r</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a wet meadow plant community.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-49

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²			
0-24	10YR	2/1	100					Muck	
24-26	10YR	3/1	100					Peaty Muck	
26-28	10YR	6/1	70	7.5YR	5/6	30	C	M	Fine Sandy Loam

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☒ Histosol (A1)

☐ Histic Epipedon (A2)

☐ Black Histic (A3)

☐ Hydrogen Sulfide (A4)

☐ Stratified Layers (A5)

☐ 2 cm Muck (A10)

☐ Depleted Below Dark Surface (A11)

☐ Thick Dark Surface (A12)

☐ Sandy Muck Mineral (S1)

☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)

☐ Sandy Redox (S5)

☐ Stripped Matrix (S6)

☐ Loamy Mucky Mineral (F1)

☐ Loamy Gleyed Matrix (F2)

☐ Depleted Matrix (F3)

☐ Redox Dark Surface (F6)

☐ Depleted Dark Surface (F7)

☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ High Water Table (A2)

☐ Saturation (A3)

☐ Water Marks (B1)

☐ Sediment Deposits (B2)

☐ Drift Deposits (B3)

☐ Algal Mat or Crust (B4)

☐ Iron Deposits (B5)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)

☐ Aquatic Fauna (B13)

☐ True Aquatic Plants (B14)

☐ Hydrogen Sulfide Odor (C1)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: SP-50
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 6.0% 3.4 ° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdB), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☒ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☐ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	Is the Sampled Area within a Wetland? Yes <input type="radio"/> No <input checked="" type="radio"/>
Hydric Soil Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Wetland Hydrology Present? Yes <input type="radio"/> No <input checked="" type="radio"/>	
Remarks: This point is located in a recently constructed ditch and planted with cool season grasses. None of the three parameter have been met at this point. Thus, this point is located in an upland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 285'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
1. _____	0	<input type="checkbox"/> 0.0%	_____	
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>10' x 70'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>0</u> x 2 = <u>0</u> FAC species <u>0</u> x 3 = <u>0</u> FACU species <u>90</u> x 4 = <u>360</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>90</u> (A) <u>360</u> (B) Prevalence Index = B/A = <u>4.000</u>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		
Herb Stratum (Plot size: <u>5' r</u>)				
1. <u>Lolium multiflorum</u>	60	<input checked="" type="checkbox"/> 66.7%	FACU	
2. <u>Festuca rubra</u>	30	<input checked="" type="checkbox"/> 33.3%	FACU	
3. _____	0	<input type="checkbox"/> 0.0%	_____	
4. _____	0	<input type="checkbox"/> 0.0%	_____	
5. _____	0	<input type="checkbox"/> 0.0%	_____	
6. _____	0	<input type="checkbox"/> 0.0%	_____	
7. _____	0	<input type="checkbox"/> 0.0%	_____	
8. _____	0	<input type="checkbox"/> 0.0%	_____	
9. _____	0	<input type="checkbox"/> 0.0%	_____	
10. _____	0	<input type="checkbox"/> 0.0%	_____	
	90	= Total Cover		
Woody Vine Stratum (Plot size: <u>10' x 285'</u>)				
1. _____	0	<input type="checkbox"/> 0.0%	_____	Hydrophytic Vegetation Present? Yes <input type="radio"/> No <input checked="" type="radio"/>
2. _____	0	<input type="checkbox"/> 0.0%	_____	
	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
 Some shoulder gravel is in the plot and has restricted vegetation growth.
 Vegetation is disturbed due to recent planting of cool season grasses.
 The criterion for hydrophytic vegetation is not met at this point.

*Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-50

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-4	10YR	2/1	100				Silty Clay Loam	
4-20	10YR	4/2	70				Silty Clay	
	10YR	4/3	30					

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)

☐ Sandy Gleyed Matrix (S4)

☐ Histic Epipedon (A2)

☐ Sandy Redox (S5)

☐ Black Histic (A3)

☐ Stripped Matrix (S6)

☐ Hydrogen Sulfide (A4)

☐ Loamy Mucky Mineral (F1)

☐ Stratified Layers (A5)

☐ Loamy Gleyed Matrix (F2)

☐ 2 cm Muck (A10)

☐ Depleted Matrix (F3)

☐ Depleted Below Dark Surface (A11)

☐ Redox Dark Surface (F6)

☐ Thick Dark Surface (A12)

☐ Depleted Dark Surface (F7)

☐ Sandy Muck Mineral (S1)

☐ Redox Depressions (F8)

☐ 5 cm Mucky Peat or Peat (S3)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)

☐ Dark Surface (S7)

☐ Iron Manganese Masses (F12)

☐ Very Shallow Dark Surface (TF12)

☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present?

Yes ☐

No ☒

Remarks:

Soil is disturbed due to recent construciotn and grading.
The criterion for hydric soil is not met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)

☐ Water-Stained Leaves (B9)

☐ High Water Table (A2)

☐ Aquatic Fauna (B13)

☐ Saturation (A3)

☐ True Aquatic Plants (B14)

☐ Water Marks (B1)

☐ Hydrogen Sulfide Odor (C1)

☐ Sediment Deposits (B2)

☐ Oxidized Rhizospheres on Living Roots (C3)

☐ Drift Deposits (B3)

☐ Presence of Reduced Iron (C4)

☐ Algal Mat or Crust (B4)

☐ Recent Iron Reduction in Tilled Soils (C6)

☐ Iron Deposits (B5)

☐ Thin Muck Surface (C7)

☐ Inundation Visible on Aerial Imagery (B7)

☐ Gauge or Well Data (D9)

☐ Sparsely Vegetated Concave Surface (B8)

☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)

☐ Drainage Patterns (B10)

☐ Dry Season Water Table (C2)

☐ Crayfish Burrows (C8)

☐ Saturation Visible on Aerial Imagery (C9)

☐ Stunted or Stressed Plants (D1)

☒ Geomorphic Position (D2)

☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?

Yes ☐

No ☒

Depth (inches):

Water Table Present?

Yes ☐

No ☒

Depth (inches):

Saturation Present?
(includes capillary fringe)

Yes ☐

No ☒

Depth (inches):

Wetland Hydrology Present?

Yes ☐

No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:

Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is not met at this point.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: IH 94 (N-S Freeway) City/County: Milwaukee County Sampling Date: 19-Aug-14
 Applicant/Owner: Wisconsin Department of Transportation State: WI Sampling Point: **SP-51**
 Investigator(s): Ron Londre, Geof Parish Section, Township, Range: S 30 T 5N R 22E
 Landform (hillslope, terrace, etc.): Toeslope/ditch Local relief (concave, convex, none): concave
 Slope: 3.0% 1.7° Lat.: _____ Long.: _____ Datum: _____
 Soil Map Unit Name: Morley silt loam (MzdB), Not hydric WWI classification: None

Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☒ No ☐ (If no, explain in Remarks.)
 Are Vegetation ☐ , Soil ☒ , or Hydrology ☐ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation ☐ , Soil ☐ , or Hydrology ☐ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="radio"/> No <input type="radio"/>
Hydric Soil Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Wetland Hydrology Present? Yes <input checked="" type="radio"/> No <input type="radio"/>	
Remarks: This point is located in a roadside ditch. All three parameters have been met at this point. Thus, this point is located in a wetland.	

VEGETATION - Use scientific names of plants.

Tree Stratum (Plot size: <u>10' x 285'</u>)	Absolute % Cover	Dominant Species? Rel.Strat. Cover	Indicator Status	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																																
1. _____	0	<input type="checkbox"/> 0.0%	_____																																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																																	
0 = Total Cover																																				
Sapling/Shrub Stratum (Plot size: <u>10' x 70'</u>)				Prevalence Index worksheet: <table border="1"> <thead> <tr> <th colspan="2">Total % Cover of:</th> <th colspan="2">Multiply by:</th> </tr> </thead> <tbody> <tr> <td>OBL species</td> <td><u>95</u></td> <td>x 1 =</td> <td><u>95</u></td> </tr> <tr> <td>FACW species</td> <td><u>0</u></td> <td>x 2 =</td> <td><u>0</u></td> </tr> <tr> <td>FAC species</td> <td><u>0</u></td> <td>x 3 =</td> <td><u>0</u></td> </tr> <tr> <td>FACU species</td> <td><u>10</u></td> <td>x 4 =</td> <td><u>40</u></td> </tr> <tr> <td>UPL species</td> <td><u>0</u></td> <td>x 5 =</td> <td><u>0</u></td> </tr> <tr> <td>Column Totals:</td> <td><u>105</u></td> <td>(A)</td> <td><u>135</u> (B)</td> </tr> <tr> <td colspan="4">Prevalence Index = B/A = <u>1.286</u></td> </tr> </tbody> </table>	Total % Cover of:		Multiply by:		OBL species	<u>95</u>	x 1 =	<u>95</u>	FACW species	<u>0</u>	x 2 =	<u>0</u>	FAC species	<u>0</u>	x 3 =	<u>0</u>	FACU species	<u>10</u>	x 4 =	<u>40</u>	UPL species	<u>0</u>	x 5 =	<u>0</u>	Column Totals:	<u>105</u>	(A)	<u>135</u> (B)	Prevalence Index = B/A = <u>1.286</u>			
Total % Cover of:		Multiply by:																																		
OBL species	<u>95</u>	x 1 =	<u>95</u>																																	
FACW species	<u>0</u>	x 2 =	<u>0</u>																																	
FAC species	<u>0</u>	x 3 =	<u>0</u>																																	
FACU species	<u>10</u>	x 4 =	<u>40</u>																																	
UPL species	<u>0</u>	x 5 =	<u>0</u>																																	
Column Totals:	<u>105</u>	(A)	<u>135</u> (B)																																	
Prevalence Index = B/A = <u>1.286</u>																																				
1. _____	0	<input type="checkbox"/> 0.0%	_____																																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																																	
3. _____	0	<input type="checkbox"/> 0.0%	_____																																	
4. _____	0	<input type="checkbox"/> 0.0%	_____																																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																																	
0 = Total Cover																																				
Herb Stratum (Plot size: <u>5' r</u>)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is > 50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																																
1. Typha angustifolia	50	<input checked="" type="checkbox"/> 47.6%	OBL																																	
2. Typha X glauca	40	<input checked="" type="checkbox"/> 38.1%	OBL																																	
3. Festuca rubra	10	<input type="checkbox"/> 9.5%	FACU																																	
4. Schoenoplectus fluviatilis	5	<input type="checkbox"/> 4.8%	OBL																																	
5. _____	0	<input type="checkbox"/> 0.0%	_____																																	
6. _____	0	<input type="checkbox"/> 0.0%	_____																																	
7. _____	0	<input type="checkbox"/> 0.0%	_____																																	
8. _____	0	<input type="checkbox"/> 0.0%	_____																																	
9. _____	0	<input type="checkbox"/> 0.0%	_____																																	
10. _____	0	<input type="checkbox"/> 0.0%	_____																																	
105 = Total Cover																																				
Woody Vine Stratum (Plot size: <u>10' x 285'</u>)				Hydrophytic Vegetation Present? Yes <input checked="" type="radio"/> No <input type="radio"/>																																
1. _____	0	<input type="checkbox"/> 0.0%	_____																																	
2. _____	0	<input type="checkbox"/> 0.0%	_____																																	
0 = Total Cover																																				

Remarks: (Include photo numbers here or on a separate sheet.)
 This point is located in a shallow marsh plant community.
 The criterion for hydrophytic vegetation is met at this point.

¹Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

SOIL

Sampling Point: SP-51

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		%	Redox Features				Texture	Remarks	
	Color (moist)			Color (moist)	%	Type ¹	Loc ²			
0-7	10YR	3/1	90	10YR	4/6	5	C	M	Silty Clay Loam	
				5YR	4/4	5	C	M		
7-20	10YR	5/2	90	7.5YR	5/4	10	C	M	Silty Clay	

¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

² Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ 2 cm Muck (A10)
☒ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Muck Mineral (S1)
☐ 5 cm Mucky Peat or Peat (S3)

☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Loamy Mucky Mineral (F1)
☐ Loamy Gleyed Matrix (F2)
☒ Depleted Matrix (F3)
☒ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

☐ Coast Prairie Redox (A16)
☐ Dark Surface (S7)
☐ Iron Manganese Masses (F12)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: None

Depth (inches): NA

Hydric Soil Present? Yes ☒ No ☐

Remarks:
Soil appears to be a roadside fill and thus disturbed.
The criterion for hydric soil is met at this point.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ True Aquatic Plants (B14)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ 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)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Dry Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☒ Geomorphic Position (D2)
☒ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ☐ No ☒

Water Table Present? Yes ☐ No ☒

Saturation Present? (includes capillary fringe) Yes ☐ No ☒

Depth (inches):

Depth (inches):

Depth (inches):

Wetland Hydrology Present? Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Previous delineation, DNR WWI map, NRCS Soils map, Topographic map, Aerial photos

Remarks:
Based on a WETS analysis, antecedent precipitation was within a normal range.
The criterion for hydrology is met at this point.

APPENDIX H

Plant Lists / Floristic Quality Assessments

FLORISTIC QUALITY ASSESSMENT



IH 94 (N-S Freeway)

Plant Community ID: Wetland W-1

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM (D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Achillea millefolium	common yarrow	FACU	1
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Ambrosia artemisiifolia	annual bur-sage	FACU	0
<input type="checkbox"/>	Asclepias incarnata	swamp milkweed	OBL	5
<input type="checkbox"/>	Cirsium arvense	Canada thistle	FACU	
<input type="checkbox"/>	Cornus racemosa	gray dogwood	FAC	2
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Elymus repens	quackgrass	FACU	
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Festuca rubra	red fescue	FACU	
<input type="checkbox"/>	Fragaria virginiana	thick-leaved wild strawberry	FACU	1
<input type="checkbox"/>	Fraxinus pennsylvanica	green ash	FACW	2
<input type="checkbox"/>	Hordeum jubatum	foxtail barley	FAC	
<input type="checkbox"/>	Juncus canadensis	Canadian rush	OBL	7
<input type="checkbox"/>	Juncus tenuis	path rush	FAC	1
<input type="checkbox"/>	Lythrum salicaria	purple loosestrife	OBL	
<input type="checkbox"/>	Parthenocissus quinquefolia	Virginia creeper	FACU	5
<input type="checkbox"/>	Persicaria maculosa	Lady's-Thumb	FACW	
<input type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Phragmites australis	common reed	FACW	1
<input type="checkbox"/>	Poa pratensis	Kentucky bluegrass	FAC	
<input type="checkbox"/>	Rumex crispus	curly dock	FAC	
<input type="checkbox"/>	Schoenoplectus tabernaemontani	soft-stem bulrush	OBL	4
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input type="checkbox"/>	Sonchus arvensis	field sow-thistle	FACU	
<input type="checkbox"/>	Symphyotrichum novae-angliae	New England aster	FACW	3
<input type="checkbox"/>	Symphyotrichum puniceum	Purple-Stem American-Aster	OBL	
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	

Wetland W-1



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-1

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM (D)

<input checked="" type="checkbox"/>	Typha X glauca	hybrid cat-tail	OBL	
<input type="checkbox"/>	Vitis riparia	river-bank grape	FACW	2

$$FQI = \bar{C} \sqrt{N}$$

Where: FQI = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	39
N =	15
\bar{C} =	2.6
FQI =	10.1



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-2

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D), M(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Cirsium arvense	Canada thistle	FACU	
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Dipsacus laciniatus	cut-leaved teasel		
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Geum canadense	white avens	FAC	2
<input type="checkbox"/>	Hackelia virginiana	beggar's-lice	FACU	3
<input type="checkbox"/>	Oenothera biennis	bastard evening-primrose	FACU	1
<input type="checkbox"/>	Parthenocissus quinquefolia	Virginia creeper	FACU	5
<input checked="" type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Rhamnus cathartica	common buckthorn	FAC	
<input type="checkbox"/>	Ribes missouriense	Missouri gooseberry		4
<input type="checkbox"/>	Solidago gigantea	giant goldenrod	FACW	3
<input type="checkbox"/>	Symphyotrichum novae-angliae	New England aster	FACW	3
<input type="checkbox"/>	Toxicodendron radicans	common eastern poison-ivy	FAC	4
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	
<input type="checkbox"/>	Vitis riparia	river-bank grape	FACW	2

$$FQI = \bar{C} \sqrt{N}$$

Where: FQI = Floristic Quality Index

\bar{C} = Mean C Value

N = Number of native taxa

TOTAL = 31

N = 10

\bar{C} = 3.1

FQI = 9.8

FLORISTIC QUALITY ASSESSMENT



IH 94 (N-S Freeway)

Plant Community ID: Wetland W-3

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM(D), M(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Alisma subcordatum	common water-plantain	OBL	3
<input type="checkbox"/>	Asclepias incarnata	swamp milkweed	OBL	5
<input type="checkbox"/>	Carex vulpinoidea	brown fox sedge	FACW	2
<input type="checkbox"/>	Chelone glabra	turtlehead	OBL	7
<input type="checkbox"/>	Cichorium intybus	blue chicory	FACU	
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Eleocharis obtusa	blunt spike-rush	OBL	3
<input type="checkbox"/>	Elymus canadensis	Canada wild-rye	FACU	4
<input type="checkbox"/>	Elymus virginicus	common eastern wild-rye	FACW	6
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Helenium autumnale	common sneezeweed	FACW	4
<input type="checkbox"/>	Hordeum jubatum	foxtail barley	FAC	
<input checked="" type="checkbox"/>	Juncus canadensis	Canadian rush	OBL	7
<input type="checkbox"/>	Lotus corniculatus	bird's-foot deer-vetch	FACU	
<input type="checkbox"/>	Lycopus americanus	American water-horehound	OBL	4
<input type="checkbox"/>	Melilotus albus	white sweet-clover		
<input type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Plantago major	broad-leaved plantain	FAC	
<input type="checkbox"/>	Rumex crispus	curly dock	FAC	
<input type="checkbox"/>	Schoenoplectus acutus	hard-stem bulrush	OBL	6
<input type="checkbox"/>	Schoenoplectus tabernaemontani	soft-stem bulrush	OBL	4
<input type="checkbox"/>	Scirpus atrovirens	dark-green bulrush	OBL	3
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input type="checkbox"/>	Sparganium eurycarpum	broad-fruit bur-reed	OBL	5
<input type="checkbox"/>	Taraxacum officinale	common dandelion	FACU	
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	
<input type="checkbox"/>	Typha X glauca	hybrid cat-tail	OBL	

Wetland W-3



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-3

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D), M(D)

$$FQI = \bar{C} \sqrt{N}$$

Where: FQI = Floristic Quality Index

\bar{C} = Mean C Value

N = Number of native taxa

TOTAL = 67

N = 15

\bar{C} = 4.5

FQI = 17.3



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-4

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Carex blanda	common wood sedge	FAC	3
<input type="checkbox"/>	Cirsium arvense	Canada thistle	FACU	
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Fragaria virginiana	thick-leaved wild strawberry	FACU	1
<input type="checkbox"/>	Juncus tenuis	path rush	FAC	1
<input type="checkbox"/>	Melilotus albus	white sweet-clover		
<input type="checkbox"/>	Parthenocissus quinquefolia	Virginia creeper	FACU	5
<input type="checkbox"/>	Persicaria maculosa	Lady's-Thumb	FACW	
<input type="checkbox"/>	Poa pratensis	Kentucky bluegrass	FAC	
<input type="checkbox"/>	Rudbeckia hirta	black-eyed Susan	FACU	4
<input type="checkbox"/>	Rumex crispus	curly dock	FAC	
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input checked="" type="checkbox"/>	Typha X glauca	hybrid cat-tail	OBL	
<input type="checkbox"/>	Vitis riparia	river-bank grape	FACW	2

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index

\bar{C} = Mean C Value

N = Number of native taxa

TOTAL = 17

N = 7

\bar{C} = 2.4

FQI = 6.4



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-5

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Solidago gigantea	giant goldenrod	FACW	3
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input type="checkbox"/>	Symphotrichum novae-angliae	New England aster	FACW	3
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	
<input checked="" type="checkbox"/>	Typha X glauca	hybrid cat-tail	OBL	

$$FQI = \bar{C} \sqrt{N}$$

Where: \bar{C} = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	10
N =	3
\bar{C} =	3.3
FQI =	5.8

FLORISTIC QUALITY ASSESSMENT



IH 94 (N-S Freeway)

Plant Community ID: Wetland W-6

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D), M(D), SS

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Alisma subcordatum	common water-plantain	OBL	3
<input type="checkbox"/>	Asclepias syriaca	common milkweed	FACU	1
<input type="checkbox"/>	Carex pellita	broad-leaved woolly sedge	OBL	4
<input type="checkbox"/>	Cornus obliqua	Pale Dogwood	FACW	
<input type="checkbox"/>	Coronilla varia	crown-vetch		
<input type="checkbox"/>	Eleocharis obtusa	blunt spike-rush	OBL	3
<input type="checkbox"/>	Erigeron philadelphicus	common fleabane	FACW	2
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Frangula alnus	Glossy False Buckthorn	FACW	
<input type="checkbox"/>	Fraxinus pennsylvanica	green ash	FACW	2
<input type="checkbox"/>	Juncus canadensis	Canadian rush	OBL	7
<input type="checkbox"/>	Juncus tenuis	path rush	FAC	1
<input type="checkbox"/>	Parthenocissus quinquefolia	Virginia creeper	FACU	5
<input checked="" type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Poa pratensis	Kentucky bluegrass	FAC	
<input type="checkbox"/>	Populus tremuloides	aspen	FAC	2
<input type="checkbox"/>	Rhamnus cathartica	common buckthorn	FAC	
<input type="checkbox"/>	Ribes americanum	American black currant	FACW	4
<input type="checkbox"/>	Salix amygdaloides	peach-leaved willow	FACW	4
<input type="checkbox"/>	Salix discolor	pussy willow	FACW	2
<input type="checkbox"/>	Salix interior	Sandbar Willow	FACW	2
<input type="checkbox"/>	Scirpus atrovirens	dark-green bulrush	OBL	3
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Solidago gigantea	giant goldenrod	FACW	3
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input type="checkbox"/>	Symphotrichum novae-angliae	New England aster	FACW	3
<input type="checkbox"/>	Toxicodendron radicans	common eastern poison-ivy	FAC	4
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	

Wetland W-6



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-6

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D), M(D), SS

<input checked="" type="checkbox"/>	Typha X glauca	hybrid cat-tail	OBL	
<input type="checkbox"/>	Verbena hastata	blue vervain	FACW	3
<input type="checkbox"/>	Vitis riparia	river-bank grape	FACW	2

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	65
N =	22
\bar{C} =	3.0
FQI =	13.9



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-7

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SS

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Eleocharis obtusa	blunt spike-rush	OBL	3
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Juncus canadensis	Canadian rush	OBL	7
<input type="checkbox"/>	Juncus tenuis	path rush	FAC	1
<input type="checkbox"/>	Lycopus americanus	American water-horehound	OBL	4
<input checked="" type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Salix discolor	pussy willow	FACW	2
<input checked="" type="checkbox"/>	Salix interior	Sandbar Willow	FACW	2
<input type="checkbox"/>	Scirpus atrovirens	dark-green bulrush	OBL	3
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	27
N =	9
\bar{C} =	3.0
FQI =	9.0

FLORISTIC QUALITY ASSESSMENT



IH 94 (N-S Freeway)

Plant Community ID: Wetland W-8

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

M(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Festuca rubra	red fescue	FACU	
<input checked="" type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input checked="" type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input type="checkbox"/>	Sonchus arvensis	field sow-thistle	FACU	

$$FQI = \bar{C} \sqrt{N}$$

Where: \bar{C} = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	1
N =	1
\bar{C} =	1.0
FQI =	1.0



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-9

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

M(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Cirsium arvense	Canada thistle	FACU	
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Fraxinus pennsylvanica	green ash	FACW	2
<input checked="" type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Phragmites australis	common reed	FACW	1
<input type="checkbox"/>	Poa pratensis	Kentucky bluegrass	FAC	
<input type="checkbox"/>	Solidago gigantea	giant goldenrod	FACW	3
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input type="checkbox"/>	Sonchus arvensis	field sow-thistle	FACU	

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	10
N =	4
\bar{C} =	2.5
FQI =	5.0



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-10

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

SM(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Cirsium arvense	Canada thistle	FACU	
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Juncus tenuis	path rush	FAC	1
<input type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Poa pratensis	Kentucky bluegrass	FAC	
<input type="checkbox"/>	Rumex crispus	curly dock	FAC	
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	
<input type="checkbox"/>	Verbena hastata	blue vervain	FACW	3

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	9
N =	4
\bar{C} =	2.3
FQI =	4.5



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-11

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT

M(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Agrostis gigantea	redtop	FACW	
<input type="checkbox"/>	Daucus carota	Queen Anne's-lace		
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input checked="" type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Symphotrichum novae-angliae	New England aster	FACW	3
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	
<input type="checkbox"/>	Verbena hastata	blue vervain	FACW	3

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	11
N =	4
\bar{C} =	2.8
FQI =	5.5



FLORISTIC QUALITY ASSESSMENT

IH 94 (N-S Freeway)

Plant Community ID: Wetland W-12

Observer(s): Ron Londre, Geof Parish

Community Classification:

WisDOT SM(D)

<u>Dominant</u>	<u>Scientific Name</u>	<u>Common Name</u>	<u>Ind. Status</u>	<u>WI C Value</u>
<input type="checkbox"/>	Achillea millefolium	common yarrow	FACU	1
<input type="checkbox"/>	Euthamia graminifolia	grass-leaved goldenrod	FACW	4
<input type="checkbox"/>	Lythrum salicaria	purple loosestrife	OBL	
<input type="checkbox"/>	Phalaris arundinacea	reed canary grass	FACW	
<input type="checkbox"/>	Solidago canadensis	Canadian goldenrod	FACU	1
<input type="checkbox"/>	Solidago sempervirens	seaside goldenrod	FACW	
<input checked="" type="checkbox"/>	Typha angustifolia	narrow-leaved cat-tail	OBL	
<input type="checkbox"/>	Typha X glauca	hybrid cat-tail	OBL	
<input type="checkbox"/>	Vitis riparia	river-bank grape	FACW	2

$$FQI = \bar{C} \sqrt{N}$$

Where: **FQI** = Floristic Quality Index
 \bar{C} = Mean C Value
N = Number of native taxa

TOTAL =	8
N =	4
\bar{C} =	2.0
FQI =	4.0

APPENDIX I

Wetland Summary Table

Table 3. Wetland Summary Table

Wetland ID	PLSS Location			Size Within Study Area (Acres)	C-value ¹	FQI vaue ¹	2014 Wetland Sample Point(s)	2014 Adjacent Upland Sample Point(s)	2009 Wetland Sample Point(s)	2009 Adjacent Upland Sample Point(s)	Wetland Plant Community Description(s) ²	WWI Mapped Wetland(s)	Mapped Wetland Soil Type (Symbol)	Mapped Soil Taxonomic Classification	Mapped Soils Hydric Classification ³	Comments on Apparent Connectivity to Surface Waters ⁴	Comments on Boundary Determination	General Comments
	Township (N)	Range (E)	Section															
W-1	5	22	30	0.33	2.6	10.1	SP-2	SP-1	None	None	SM	None	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric	Surface water drains out of wetland through upland areas of ditch towards wetland W10-3 and to Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-1 was not delineated in 2009.
W-2	5	22	30	0.07	3.1	9.8	SP-10	SP-9	None	None	SM, M	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water drains out of wetland through upland areas of ditch towards tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-2 was not delineated in 2009.
W-3	5	22	30	0.99	4.5	17.3	SP-14, SP-15, SP-19	SP-13	None	None	SM, M	None	BIA MmA	Blount silt loam, 1 to 3 percent slopes Matherton silt loam, 1 to 3 percent slopes	Not hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Boundary based on subtle topographic breaks, presence and absence of hydrophytes, and frequent soil probing to evaluate presence vs. absence of hydric soil.	Wetland is newly formed as a result of rerouting unnamed tributary of Oak Creek. Wetland would not have been present in 2009.
W-4	5	22	19	0.18	2.4	6.4	SP-17	SP-16	None	None	SM	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Drains out of wetland through upland areas of a ditch, to W-5 then through upland areas of ditch, towards an unnamed tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-4 was not delineated in 2009.
W-5	5	22	19	0.04	3.3	5.8	SP-18	SP-16	None	None	SM	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Drains out of wetland through upland areas of a ditch towards an unnamed tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-5 was not delineated in 2009.
W-6	5	22	19	2.35	2.9	14.0	SP-21, SP-23, SP-25, SP-29	SP-20, SP-22, SP-24, SP-28	None	None	SM, M, SS	E2Kx	BIA AsA	Blount silt loam, 1 to 3 percent slopes Ashkum silty clay loam, 0 to 3 percent slopes	Not hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Portions of W-6 are contained within ditches where the boundary was primarily based on distinct topographic breaks. Remainder of wetland was based on subtle to moderate topographic breaks, frequent soil probing to evaluate presence vs. absence of hydric soils, and presence vs. absence of hydrophytes.	Wetland was not delineated in 2009. Portions of the wetland are contained within roadside ditches and storm water swales, other portions appears to have developed on fill soils.
W-7	5	22	19	0.02	3.0	9.0	SP-27	SP-26	None	None	SS	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Wetland W-7 is located in a shallow depression with no apparent outlet for surface water.	Boundary was based on fairly distinct topographic break in a shallow depression and the presence vs. absence of hydrophytes and hydric soils.	Wetland appears to have formed in fill soils and was not delineated in 2009.
W-8	5	22	18	0.02	1.0	1.0	SP-33	SP-32	None	None	M	None	MzdC2	Morley silt loam, 6 to 12 percent slopes, eroded	Not hydric	Surface water drains north from wetland area through ditches beyond the Study Area towards an unnamed tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-8 was not delineated in 2009.
W-9	5	22	18	0.07	2.5	5.0	SP-34	SP-32	None	None	M	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water drains north from wetland area through ditches beyond the Study Area towards an unnamed tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-9 was not delineated in 2009.
W-10	5	22	19	0.02	2.3	4.5	SP-43	SP-42	None	None	SM	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water from W-10 would drain through a series of upland areas within ditches and culverts prior to reaching an unnamed tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-10 was not delineated in 2009.
W-11	5	22	30	0.14	2.8	5.5	SP-47	SP-46	None	None	M	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Surface water from W-11 would drain through a series of ditches and culverts east towards an unnamed tributary of Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-11 was not delineated in 2009.
W-12	5	22	30	0.07	2.0	4.0	SP-51	SP-50	None	None	SM	None	MzdB	Morley silt loam, 2 to 6 percent slopes	Not hydric	Surface water from W-12 would drain north through upland areas within a ditch to Oak Creek.	Boundary based on distinct topographic breaks along ditch, presence vs. absence of hydrophytes, and hydric vs. non-hydric soils.	Wetland is entirely contained within a roadside ditch. Wetland W-12 was not delineated in 2009.
W7-1	5	22	7	0.50	NA	NA	None	None	T-1Bw	T-1Au	RPF	T3K	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W7-6	5	22	7	0.36	NA	NA	None	None	T1-Bw	T-1Au	RPF, SM	T3/E2K	AsA BIA MzdB2	Ashkum silty clay loam, 0 to 3 percent slopes Blount silt loam, 1 to 3 percent slopes	All hydric Not hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W8-6	5	22	18	0.01	NA	NA	None	None	T1-Bw	T-1Au	SM	T3/E2K	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Wetland W8-6 does not appear to have a surface water connection to other Waters of the US.	Wetland boundary was verified to not have changed from 2009.	

Table 3. Wetland Summary Table

Wetland ID	PLSS Location			Size Within Study Area (Acres)	C-value ¹	FQI vaue ¹	2014 Wetland Sample Point(s)	2014 Adjacent Upland Sample Point(s)	2009 Wetland Sample Point(s)	2009 Adjacent Upland Sample Point(s)	Wetland Plant Community Description(s) ²	WWI Mapped Wetland(s)	Mapped Wetland Soil Type (Symbol)	Mapped Soil Taxonomic Classification	Mapped Soils Hydric Classification ³	Comments on Apparent Connectivity to Surface Waters ⁴	Comments on Boundary Determination	General Comments
	Township (N)	Range (E)	Section															
W8-7	5	22	18	0.57	NA	NA	None	None	T-1Bw	T-1Au	M, SM	None	AsA	Ashkum silty clay loam, 0 to 3 percent slopes	All hydric	Surface water from the wetland would drain both north and south through a series of ditches to various tributaries of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W8-8	5	22	18	0.86	NA	NA	SP-36	SP-35	T-1Bw	T-1Au	M, SM	E2Ka	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water from the wetland would drain both north and south through a series of ditches to various tributaries of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W9-2	5	22	19	1.22	NA	NA	SP-38	SP-37	T-1Bw	T-1Au	RPE, SM	T3/E2K	AsA BIA	Ashkum silty clay loam, 0 to 3 percent slopes Blount silt loam, 1 to 3 percent slopes	All hydric Not hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W9-3	5	22	19	1.61	NA	NA	SP-31	SP-31	T-1Bw	T-1Au	RPE, RPF, SM	E2K E2H	HtA	Houghton muck, 0 to 2 percent slopes	All hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	Newly delineated areas are entirely contained within roadside ditches.
W9-4	5	22	19	0.25	NA	NA	None	None	T-1Bw	T-1Au	WS	None	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric	Wetland is adjacent to tributary of Oak Creek.	Wetland boundary was verified to not have changed from 2009.	
W9-4a	5	22	19	0.13	NA	NA	None	None	T-1Bw	T-1Au	M	E2K	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Wetland is adjacent to tributary of Oak Creek.	Wetland boundary was verified to not have changed from 2009.	
W9-5	5	22	19	0.89	NA	NA	SP-40, SP-42	SP-39, SP-41	T-1Bw	T-1Au	M, SM	None	MzdC2 BIA AsA	Morley silt loam, 6 to 12 percent slopes, eroded Blount silt loam, 1 to 3 percent slopes Ashkum silty clay loam, 0 to 3 percent slopes	Not hydric Not hydric All hydric	Abuts unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches extending north and south of original location. Remainder of wetland boundary was verified to not have changed from 2009.	A portion of the originally delineated area was identified as a storm water pond/landscape pond and is shown on wetland location map. Newly delineated areas are entirely contained within roadside ditches.
W9-6	5	22	19	0.6	NA	NA	None	None	T-1Bw	T-1Au	RPE	E2H	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Abuts unnamed tributary of Oak Creek.	South wetland boundary and location of tributary of Oak Creek was revised as a result of recent, permitted construction activity that filled a portion of the wetland and enclosed the tributary in a culvert. Remainder of wetland was verified to not have changed from 2009.	
W9-7	5	22	19	0.1	NA	NA	None	None	T1-Bw	T-1Au	SM	None	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Adjacent to unnamed tributary of Oak Creek. Possibly drains through a culvert to the tributary.	Wetland boundary was verified to not have changed from 2009.	Wetland area appears that it may be a storm water basin.
W9-8	5	22	19	0.51	NA	NA	SP-45	SP-44	T1-Bw	T-1Au	SM	E2K	MzdB BIA	Morley silt loam, 2 to 6 percent slopes Blount silt loam, 1 to 3 percent slopes	Not hydric Not hydric	Wetland appears to drain through a culvert to wetland W9-6 that abuts an unnamed tributary of Oak Creek.	Wetland boundary was revised to include wetlands contained within roadside ditches near the east end of W9-8. Remainder of wetland was verified to not have changed from 2009.	Wetland appears to be entirely contained within a roadside ditch and storm water swale.
W9-9	5	22	19	0.84	NA	NA	None	None	T1-Bw	T-1Au	SM	None	MzdB2	Morley silt loam, 2 to 6 percent slopes, eroded	Not hydric	Appears to be adjacent and drains to wetland W9-8 that drains through a culvert to an unnamed tributary of Oak Creek.	Wetland boundary was verified to not have changed from 2009.	
W10-1	5	22	30	3.71	NA	NA	SP-49	SP-48	T-1Bw	T-1Au	RPF, RPE	E2K	MmA	Matherton silt loam, 1 to 3 percent slopes	Not hydric	Abuts Oak Creek.	Eastern boundary revised as a result of permitted construction of Bridge over Oak Creek and IH 94 on ramp that filled part of W10-1. Remainder of wetland was verified to have not changed from 2009.	
W10-2	5	22	30	0.4	NA	NA	None	None	T-1Bw	T-1Au	SM, M	E2K	BIA	Blount silt loam, 1 to 3 percent slopes	Not hydric	Surface water appears to drain from wetland area through a culvert to Oak Creek.	Wetland boundary was verified to not have changed from 2009.	

Table 3. Wetland Summary Table



Wetland ID	PLSS Location			Size Within Study Area (Acres)	C-value ¹	FQI vaue ¹	2014 Wetland Sample Point(s)	2014 Adjacent Upland Sample Point(s)	2009 Wetland Sample Point(s)	2009 Adjacent Upland Sample Point(s)	Wetland Plant Community Description(s) ²	WWI Mapped Wetland(s)	Mapped Wetland Soil Type (Symbol)	Mapped Soil Taxonomic Classification	Mapped Soils Hydric Classification ³	Comments on Apparent Connectivity to Surface Waters ⁴	Comments on Boundary Determination	General Comments
	Township (N)	Range (E)	Section															
W10-3	5	22	30	4.21	NA	NA	SP-4, SP-6, SP-8	SP-3, SP-4, SP-7	T-1Bw	T-1Au	RPE	T3/E2K	AzB MmA AsA Sm	Aztalan loam, 2 to 6 percent slopes Matherton silt loam, 1 to 3 percent slopes Ashkum silty clay loam, 0 to 3 percent slopes Sebewa silt loam	Not hydric Not hydric All hydric All hydric	Abuts Oak Creek.	Wetland boundary revised at southwest corner to include a ditch extending to the south. Northwest & west boundary was revised as a result of permitted construction of an off ramp that filled part of W10-3. The northwest boundary was revised and enlarged. The remainder of W10-3 boundary was verified to not have changed from 2009.	
W10-4	5	22	30	1.56	NA	NA	SP-11	SP-12	None	None	RPE	None	MmA	Matherton silt loam, 1 to 3 percent slopes	Not hydric	Surface water would drain east through culvert to unnamed tributary of Oak Creek.	South wetland boundary was revised to include a swale containing wetlands. East boundary was revised as a result of permitted construction that filled a portion of the eastern side of W10-4. Construction was active at the time of the field investigation and the eastern boundary is anticipated to change as a result.	Active construction taking place along eastern boundary. Boundary likely to change as a result.

¹ A Floristic Quality Assessment was conducted only for wetlands delineated in 20014 and not previously delineated in 2009.

² RPF - Riparian wetland (wooded), RPE - Riparian wetland (emergent), M - Wet meadow, SM - Shallow marsh, DM - Deep marsh, AB - Aquatic bed, SS - Shrub scrub, WS - Wooded swamp

³ "Hydric" means that all components listed for a given map unit are rated as being hydric. "Predominantly hydric" means components that comprise 66 to 99 percent of the map unit are rated as hydric. "Partially hydric" means components that comprise 33 to 66 percent of the map unit are rated as hydric. "Predominantly nonhydric" means components that comprise up to 33 percent of the map unit are rated as hydric. "Nonhydric" means that none of the components are rated as hydric. The assumption here is that all components of the map unit are rated as hydric or nonhydric in the underlying database. A "Not rated or not available" map unit rating is displayed when none of the components within a map unit have been rated.

⁴ Comments on connectivity are the professional opinion of the investigator based on general field observations at the time of the field visit and occasionally map resources. The ability to evaluate connectivity in the field may often be limited by public ROW access and private land access limitations. These opinions are subject to change based on further investigation and data availability. These opinions are not a jurisdictional determination nor a significant nexus determination.

APPENDIX J

Statement of Qualifications

STATEMENT OF QUALIFICATIONS

FIELD INVESTIGATORS:

Ronald A. Londré, M.S., PWS, CE

Mr. Londré has M.S. and B.S. degrees in biological science with focused studies on plant community ecology from UW-Milwaukee and UW-Parkside, respectively. Ron is certified by the Society of Wetland Scientists as a Professional Wetland Scientist (PWS) and the Ecological Society of America as a Certified Ecologist (CE). Ron is also a Certified Wetland Specialist (CWS) in McHenry County and Lake County, Illinois. He has eight years professional experience as an ecological consultant working with natural resources. He specializes in wetland assessments and delineations, wetland and waterway permitting, mitigation site design and monitoring, ecological restoration, water resource studies and management planning, invasive species management, and threatened and endangered species investigations. Previously, Mr. Londré served as a college instructor and research scientist when he taught courses in biological science, environmental science, and botany while conducting research on the forces that structure plant communities and landscape and restoration ecology. Ron has completed the following wetland delineation technical training workshops: Advanced Wetland Delineation Training Workshop provided by the University of Wisconsin-La Crosse in 2013, Critical Methods in Wetland Delineation Workshop provided by the University of Wisconsin-La Crosse in 2013, Regional Supplement Seminar and Field Practicum provided by the Wetland Training Institute in 2012, Basic Wetland Delineation Training Workshop provided by the University of Wisconsin-La Crosse in 2011, and the Wetland Delineation Training Workshop provided by the University of Wisconsin-Milwaukee in 2004.

Geoffrey B. Parish, P.G., P.H.

Mr. Parish is a hydrologist and geologist with M.S. and B.S. degrees in geosciences from the University of Wisconsin-Milwaukee. He has studied wetland hydrology and soils in Wisconsin, and Illinois for almost twenty years. His wetland work has included wetland delineations, wetland mitigation projects, including enhancements, restorations and creations in Wisconsin and Illinois. Mr. Parish has worked on over 200 delineations in Wisconsin in the past two years. He was on a team of scientists that provided expert witness services to the US Department of Justice regarding impacts to a state of Wisconsin owned wetland.