

**WETLAND & PRIMARY ENVIRONMENTAL CORRIDOR
DELINEATION REPORT**

SALEM UNITED METHODIST CHURCH PROPERTY

**NW One-quarter, Section 12, T6N, R19E
CITY OF WAUKESHA
WAUKESHA COUNTY
WISCONSIN**

**Prepared by:
Christopher Jors
Jennifer Dietl
Daniel Carter**

Report completed: March 18, 2016

Southeastern Wisconsin Regional Planning Commission
W239 N1812 Rockwood Drive
P.O. Box 1607
Waukesha, WI 53187-1607

WETLAND DELINEATION REPORT OVERVIEW

(Based upon WDNR WETLAND Delineation Confirmation Request Check List)

INTRODUCTION

- Who requested the delineation – **Doug Koehler, City of Waukesha Planner**
- Why the delineation was undertaken – **Proposed development**
- Date the field work was completed – **July 15, 2015**
- Who conducted field work – **Christopher Jors, Jennifer Dietl, Daniel Carter**
- Statement of Qualifications

METHODS

- Description of Methods
- Sources Reviewed
 - Topographic Map – **Exhibit 1**
 - WDNR Surface Water Data Viewer – Wisconsin Wetland Inventory (WWI) Map – **Exhibit 2**
 - Soil Survey and Floodplain Map – **Exhibit 3**
 - Historical Aerial Photos – **Exhibits 4A to 4L (2015, 2010, 2007, 2005, 2000, 1995, 1990, 1980, 1970, 1963, 1950, and 1941)**
 - Sanitary Sewer Service Map – **Exhibit 5**
 - Draft NRCS Wetland Inventory Map – **Exhibit 6**
 - Advanced Identification (ADID) Wetland Map – **Exhibit 7**
- Description of any site specific agency guidance (site meetings, etc.) – **None**

RESULTS AND DISCUSSION

- Antecedent hydrologic condition analysis – **Drier than normal**
- Previous wetland delineation mapping – **None**
- Existing environmental mapping (WWI mapping, Soil survey, etc.)
- Amount and types of wetland located within the project area
- Wetland/upland boundary explanation
- Disturbed and problematic areas encountered
- Other water resources located in the project area
- Other considerations

LITERATURE CITED

Wetland Delineation Map – **Exhibit 8**

Vegetation Survey, Wetland Delineation Data Forms, and Site Photos

- Preliminary Vegetation Survey – **Exhibit 9**
- Wetland Determination Data Forms – NE/NC Region – **Exhibit 10**
- Site Photos – **Exhibit 11**

Farm Service Agency Slide Review - **Not Applicable**

INTRODUCTION

This wetland delineation report responds to a March 20, 2015, letter of request from Douglas J. Koehler, City of Waukesha Planner, to identify the boundaries of any wetland and primary environmental corridor (PEC) on the Salem United Methodist Church property at 541 Highway 59. The project area is located in the Northwest one-quarter of U.S. Public Land Survey Section 12, Township 6 North, Range 19 East, City of Waukesha, Waukesha County, Wisconsin.

Statement of Qualifications

Christopher Jors, Senior Specialist-Biologist, has worked at SEWRPC since 1993, and has been part of the wetland delineation team since 1994. He received a Bachelor's degree in Conservation Aspects of Biology from the University of Wisconsin – Milwaukee in 1992. Prior to working at SEWRPC, Chris worked at the UWM Field Station at the Cedarburg Bog in Saukville, WI, where he learned methods of sampling wetland plant communities within the Bog. Chris has attended various wetland training workshops including the UW-La Crosse Critical Methods Workshop on March 9, 2016; the UW-La Crosse Basic and Advanced Wetland Delineation Workshops on August 10-15, 2015; a Wisconsin Dept. of Natural Resources Wetland Delineation & Wetland Rapid Assessment Methodology Workshop on April 23, 2014; and a U.S. Army Corps of Engineers Workshop on the Midwest Supplement to the 1987 Wetland Delineation Manual on February 3, 2009.

Jennifer Dietl, Specialist-Biologist, earned a Bachelor's degree in Biology and Environmental Science from Carroll University in 1992. She has worked at the Commission from 1992 to 1997 and from 2006 to the present conducting wetland delineations, primary environmental corridor delineations, and vegetation surveys. In between years of service at the Commission she worked for the Wisconsin Department of Transportation – Green Bay as an LTE Environmental Analysis and Review Specialist – and the Wisconsin Department of Natural Resources – Green Bay as an LTE Hydrologist. Jennifer attended a Wisconsin Dept. of Natural Resources Wetland Delineation & Wetland Rapid Assessment Methodology Workshop on April 23, 2014; and the UW-La Crosse Basic and Advanced Wetland Delineation Workshops on August 10-15, 2015, and the Critical Methods Workshop on March 9, 2016.

Daniel Carter, PhD, Principal Biologist, has worked at SEWRPC since 2013. He graduated with honors from Grinnell College with a Bachelor's degree in Biology. He later received a PhD in Biology from Kansas State University. Daniel has published several plant ecology articles in peer-reviewed journals, served on the botany team for the Wisconsin Wildlife Action Plan, and co-teaches the UW-La Crosse Basic Wetland Plant Identification course. He has completed both basic and advanced wetland delineation training as well as Wisconsin Natural Heritage Inventory training. Prior to working for the Commission, Daniel served as project coordinator for a grassland restoration project overseen jointly by the United States Department of Agriculture and The Nature Conservancy and taught high school Biology.

METHODS

Description of Methods

The wetland boundary determinations were based upon the criteria and methodologies set forth in the 1987 *Corps of Engineers Wetlands Delineation Manual*; the January 2012 *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0); the March 4, 2015, *Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources*; and the State of Wisconsin 2014 Wetland Plant List.

Specific methods used to field identify wetland boundaries included the U.S. Department of the Army Corps of Engineers Routine Onsite Determination Method – Plant Community Assessment Procedure. This procedure requires an initial identification of representative plant community types in the project area followed by a characterization of vegetation, soils, and hydrology for each type.

Sources Reviewed

Prior to conducting field work, Commission staff reviewed the following data sources: Waukesha County’s topographic mapping (Exhibit 1), WDNR Surface Water Data Viewer - WWI mapping (Exhibit 2), Natural Resource Conservation Service’s (NRCS) soil survey and FEMA floodplain mapping (Exhibit 3), Commission aerial photography (Exhibits 4A – 4L), Sanitary Sewer Service Map (Exhibit 5), the Draft NRCS Wetland Inventory Map (Exhibit 6), ADID Wetland Map (Exhibit 7), and precipitation data from the NRCS “WETS” tables.

RESULTS AND DISCUSSION

Christopher Jors, lead investigator, Jennifer Dietl, and Dr. Daniel Carter, identified and staked the boundaries of the wetland and PEC contained within the project area on July 15, 2015. The wetland and PEC boundaries were marked with orange wire flags and ribbon. To differentiate the wetland and PEC markers, Commission staff tied different ribbon above the wire flags. Ribbon with “WETLAND BOUNDARY” in black lettering identified wetland boundary markers and plain orange ribbon identified the PEC boundary. In areas where the wetland and PEC coincide, both types of ribbon were tied together. A church representative, Ms. Bonnie Stuempfig, notified the Commission staff that Landmark Engineering would be hired to survey the wetland and PEC markers. Landmark Engineering has not yet provided a copy of the survey with wetland and PEC boundaries as of the completion of this report. Commission staff used a sub-meter GPS to locate the sample site locations.

The results of the wetland and PEC delineation field inspection for this project area are shown on Exhibit 8, which includes approximate wetland and PEC boundaries, sample site numbers and locations, and plant community area numbers and locations.

Antecedent Hydrologic Conditions

Climatological data were taken from the nearest WETS station(s) and GHCN Stations with relevant data.

WETS Station: WAUKESHA, WI 8937

	Month	3 yrs. In 10 less than	Normal	3 yrs. In 10 more than	Observed precip.	Condition dry, wet, normal	Condition value	Month weight value	Product of previous two columns
1st prior month	July	2.82	3.83	4.49	2.08	Dry	1	3	3
2nd prior month	June	2.46	3.78	4.54	3.26	Normal	2	2	4
3rd prior month	May	2.03	3.02	3.61	2.63	Normal	2	1	2
								sum	9
		If sum is							
		6 - 9	drier than normal						
		10 - 14	normal						
		15 - 18	wetter than normal						
		Conclusion	Drier						

Previous Wetland Delineation Mapping - None

Existing Environmental Mapping

The topographic map (Exhibit 1) depicts a project area within significant topographic relief. Elevations range from a high of 918 feet above National Geodetic Vertical Datum, 1929 adjustment (NGVD 29), on the northwest part of the property to a low elevation of 864 feet above NGVD 29 on the southern portion of the property. While no waterways or waterbodies are contained within the project area, an unnamed tributary to Poplar Creek just east of the project area drains a large wetland complex, a portion of which is contained on the subject property.

The WDNR Surface Water Data Viewer (WWI) map (Exhibit 2) indicates one large wetland complex in the south part of the project area consisting of S3/E2K (Scrub/shrub – Emergent/wet meadow) and T3/S3K (Forested – Scrub/shrub) wetland types. The unnamed tributary to Poplar Creek mentioned above is identified as a USGS waterway on this exhibit. WDNR identifies this waterway as a first order stream. Natural community and general condition information is not available from WDNR.

The NRCS Soil Survey map (Exhibit 3) shows the following soils in the project area:

Soil Name	Slope %	Hydric Rating	% Soil Coverage in Project Area	Sample Site(s)
Casco loam (CeC2)	6-12%, eroded	Non-hydric	0.3%	
Fox loam (FoC2)	6-12%, eroded	Non-hydric	0.6%	
Hochheim loam (HmB)	2-6%	Non-hydric	0.7%	
Hochheim loam (HmB2)	2-6%, eroded	Non-hydric	16.1%	
Hochheim loam (HmC2)	6-12%, eroded	Non-hydric	26.0%	
Hochheim loam (HmD2)	12-20%, eroded	Non-hydric	11.6%	
Hochheim soils (HoD3)	12-20%, severely eroded	Non-hydric	4.0%	
Houghton muck (HtA)	0-2%	Hydric	18.4%	
Lamartine silt loam (LmB)	1-4%	Predominantly Non-hydric	7.4%	
Pella silt loam (Ph)	0-2%	Predominantly hydric	1.2%	1
Pistakee silt loam (PrA)	1-3%	Predominantly Non-hydric	5.0%	2 and 3
Wallkill silt loam (Wa)	0-3%	Hydric	8.4%	4

It should be noted that FEMA has not mapped one-percent-annual-probability floodplain within or immediately adjacent to the project area.

Historical aerial photos of the project area were reviewed going back to 1941. Orthophotographs (2015, 2010, 2007, 2005, 2000, and 1995) and aerial photos (1990, 1980, 1970, 1963, 1950, and 1941) are attached (see Exhibits 4A-4L). This review is summarized in the table below.

Year	CHANGES IN LAND USE OBSERVED ON AERIAL PHOTOGRAPHY FROM 1941 TO 2015
1941	The project area is part of a large farmstead with the farm house and barn on the north side of the property, just south of East Broadway. Portions of the wetland on the south side of the property are cropped while the remainder appears to be naturally vegetated – possibly used for pasture or mowed for marsh hay. A large wetland complex appears disturbed but vegetated just east of the property. A drainage ditch bisects the subject wetland complex.
1950	No changes on the subject property. However, most of wetland just east of the subject property is now cropped and the drainage ditch has been extended southward.
1963	Farming of the wetland on the subject property has ceased and vegetation coverage is shrubby. The farm buildings just east of the property have been razed and the farmland appears fallow. Residential development has occurred just west of the subject property.

Year	CHANGES IN LAND USE OBSERVED ON AERIAL PHOTOGRAPHY FROM 1941 TO 2015
1970	STH 164/59 (Les Paul Parkway) has been constructed as a two lane road along the west project boundary. Farming appears to have ceased on the entire property and a church has also been built with access from STH 164/59.
1980	The farmstead buildings on the property have been razed.
1990	STH 164/59 (Les Paul Parkway) is now a four-lane divided highway. More residential development has occurred southwest of the subject property.
1995	No changes.
2000	A sewage pumping station has been built on the far northeast corner of the subject property, likely related to the new residential development just east of the property.
2005	Earthmoving activities and stockpiling of materials occurring north of the church building.
2007	No changes.
2010	No changes.
2015	No changes.

SEWRPC’s sanitary sewer service area mapping (Exhibit 5) shows that the project area is located within the planned sanitary sewer service area for the City of Waukesha and Environs. The south part of the project area contains PEC.

The NRCS wetland inventory map (Exhibit 6) indicates lands on the north side and central parts of the project area are mapped Not Inventoried (NI). Lands in the south part of the project area are identified as wetland (W).

The ADID wetland map (Exhibit 7) indicates that wetlands located in the south part of the project area are located in a designated Primary Environmental Corridor (PEC) and, as such, have been designated as ADID wetlands under the Section 404(b)(1) Guidelines of the Clean Water Act.

Amount and Types of Wetlands in the Project Area

One wetland and one upland plant community area (PCA) were identified and inventoried during the field inspection. A list of vascular plant species observed during the field inspection was prepared for each plant community area as well as plant community type(s), dominant plant species, disturbances, and any critical plant and animal species (Exhibit 9). The table below summarizes characteristics for each PCA.

PCA Number	Acreage	PCA Type(s)	Dominant Species	Critical Species
1 Upland	0.55	Undifferentiated hardwoods	<i>Acer negundo</i> -Boxelder <i>Galium triflorum</i> -Sweet-scented bedstraw <i>Lonicera X bella</i> -Hybrid honeysuckle <i>Rhamnus cathartica</i> -Common buckthorn	None
2 Wetland	7.2	Shallow marsh, fresh (wet) meadow and second growth, Southern, wet to wet-mesic lowland hardwoods.	<i>Acer negundo</i> -Boxelder <i>Phalaris arundinacea</i> - Reed canary grass <i>Typha angustifolia</i> -Narrow-leaved cat-tail	None

Wetland/Upland Boundary Explanation

A total of four representative sample sites were identified within the project area during the field inspection. The Wetland Determination Data Forms describing the findings at each sample site are attached as Exhibit 10. The locations of the sample sites are shown on Exhibit 8. The wetland boundary was determined using breaks in topography, changes in vegetation composition, visual identification of wetland hydrology, and presence of hydric soils.

Disturbed and Problematic Areas Encountered

No “significantly disturbed” or “naturally problematic” areas were encountered during the field inspection.

Other Water Resources Located in the Project Area

No other water resources are located in the project area; however, the staked wetland continues out of the project area.

Other Considerations

The wetlands located within the recorded Primary Environmental Corridor (PEC) as shown on Exhibit 8, have been designated as Advanced Delineation and Identification (ADID) wetlands under the Section 404(b)(1) Guidelines of the Clean Water Act and are deemed generally unsuitable for the discharge of dredge and fill material. In addition, the nonagricultural performance standards set forth in Section NR 151.125 of the *Wisconsin Statutes*, require establishment of a 75-foot impervious surface protective area to protect this “highly susceptible” wetland. This designated protective area boundary is measured horizontally from the delineated wetland boundary to the closest impervious surface. The protective area requirements should be taken into consideration for any planned development of the subject property and it is suggested that a church official or their representative contact WDNR regarding approaches to meet the requirements. Finally, please be advised that no Federal or State regulatory jurisdiction determinations relative to any wetland permits or certifications are made under this report.

LITERATURE CITED

U.S. Army Corps of Engineers, 2015, Special Public Notice: *Guidance for Submittal of Delineation Reports to the St. Paul District Corps of Engineers and the Wisconsin Department of Natural Resources*, U.S. Army Corps of Engineers, March 2015.

U.S. Army Corps of Engineers, 2014, State of Wisconsin Wetland Plant List

U.S. Army Corps of Engineers, 2012, *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region* (Version 2.0). U.S. Army Engineer Research and Development Center, January 2012.

USDA Natural Resources Conservation Service, 2010, *National Food Security Act Manual, Fifth Edition, Part 514.60*, November 2010.

U.S. Army Corps of Engineers, 1987, U.S. Army Corps of Engineers wetlands delineation manual. Wetlands Research Program Technical Report Y-87-1.

WDNR, Surface Water Data Viewer, website at <http://dnrmaps.wi.gov/sl/?Viewer=SWDV>

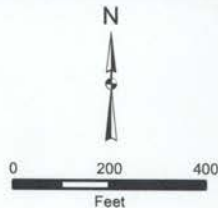
Exhibit 1. Topographic Map

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

-  Project Area
-  Surface Water
-  Flow Direction



Source: SEWRPC
Date of Photography: 2015
CA#737-269

Exhibit 2. WDNR Surface Water Data Viewer Wisconsin Wetland Inventory Map

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Exhibit 3. Soils Map

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County




Exhibit 4A. 2015 Orthophotograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area



0 200 400
Feet


Source: SEWRPC
CA#737-269

Exhibit 4B. 2010 Orthophotograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area



0 200 400
Feet


Source: SEWRPC
CA#737-269

Exhibit 4C. 2007 Orthophotograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area



0 200 400
Feet

Source: SEWRPC
CA#737-269

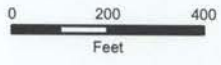
Exhibit 4D. 2005 Orthophotograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area



Source: SEWRPC
CA#737-269

Exhibit 4E. 2000 Orthophotograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area



0 200 400
Feet

Source: SEWRPC
CA#737-269

Exhibit 4F. 1995 Orthophotograph


Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



East Broadway

STH 164/59 Les Paul Parkway

Legend

 Project Area



0 200 400
Feet

Source: SEWRPC
CA#737-269

Exhibit 4G. 1990 Aerial Photograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area

N



0 200 400
Feet

Source: SEWRPC
CA#737-269

Exhibit 4H. 1980 Aerial Photograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County

East Broadway

East Broadway
Law Paul Parkway

Legend

 Project Area

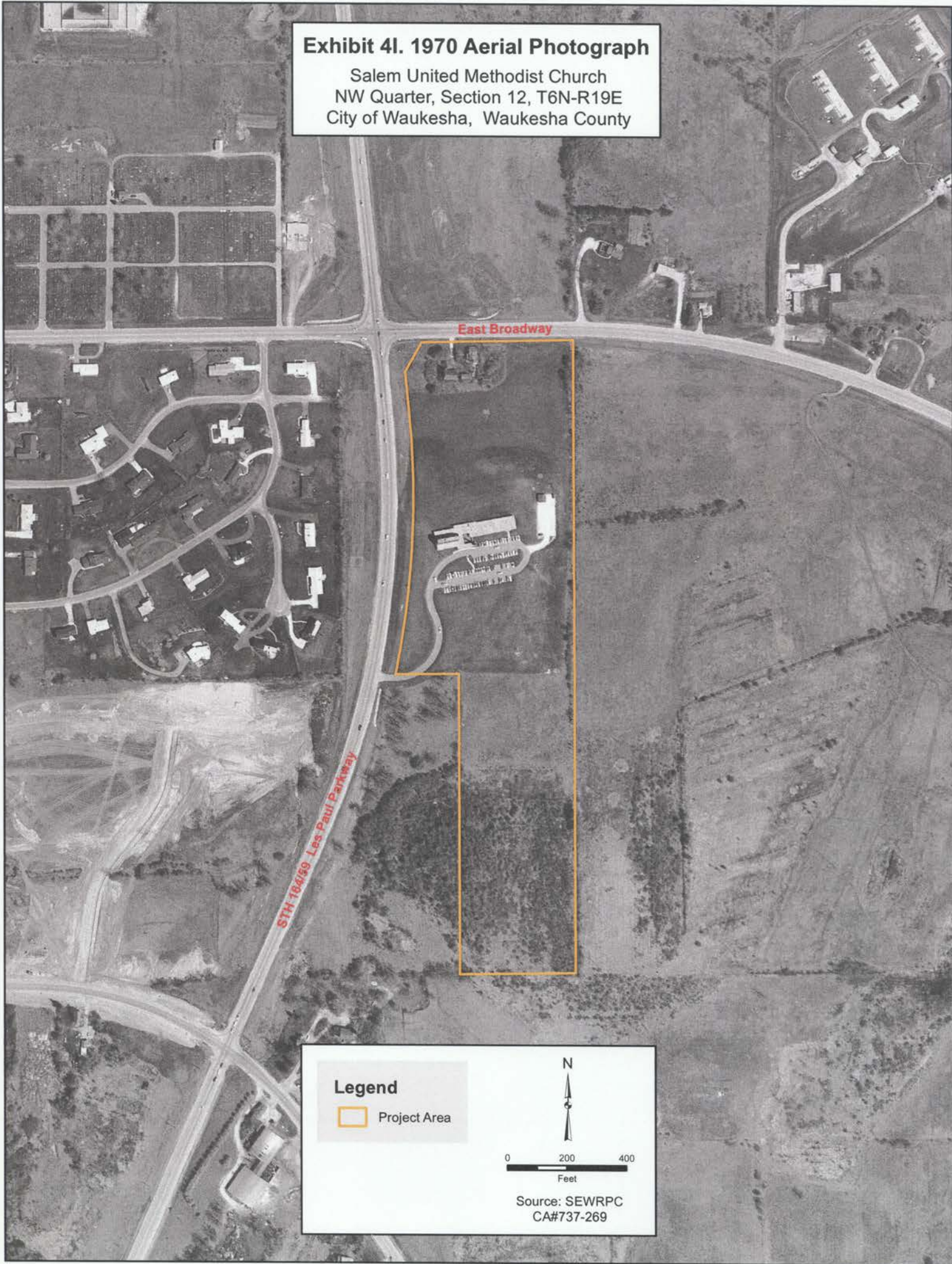


0 200 400
Feet


Source: SEWRPC
CA#737-269

Exhibit 4I. 1970 Aerial Photograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

 Project Area

N



0 200 400
Feet

Source: SEWRPC
CA#737-269

Exhibit 4J. 1963 Aerial Photograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County

East Broadway

Legend

 Project Area

N

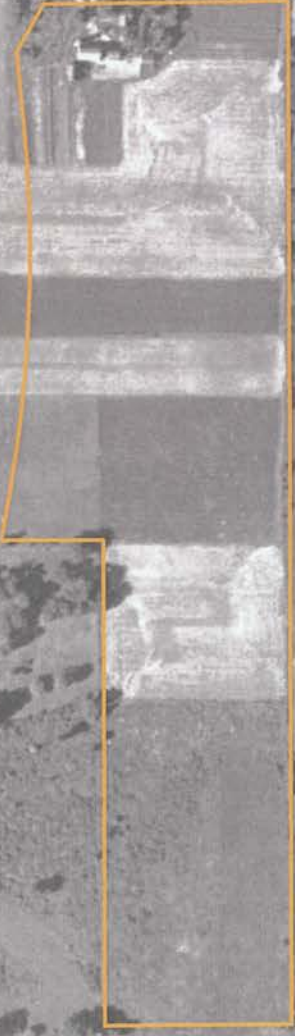
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Source: SEWRPC
CA#737-269


Exhibit 4K. 1950 Aerial Photograph

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County

East Breakway



Legend

 Project Area

N



0 200 400
Feet

Source: SEWRPC
CA#737-269


Exhibit 4L. 1941 Aerial Photograph

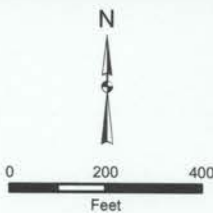
Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County

East Broadway



Legend

 Project Area



Source: SEWRPC
CA#737-269

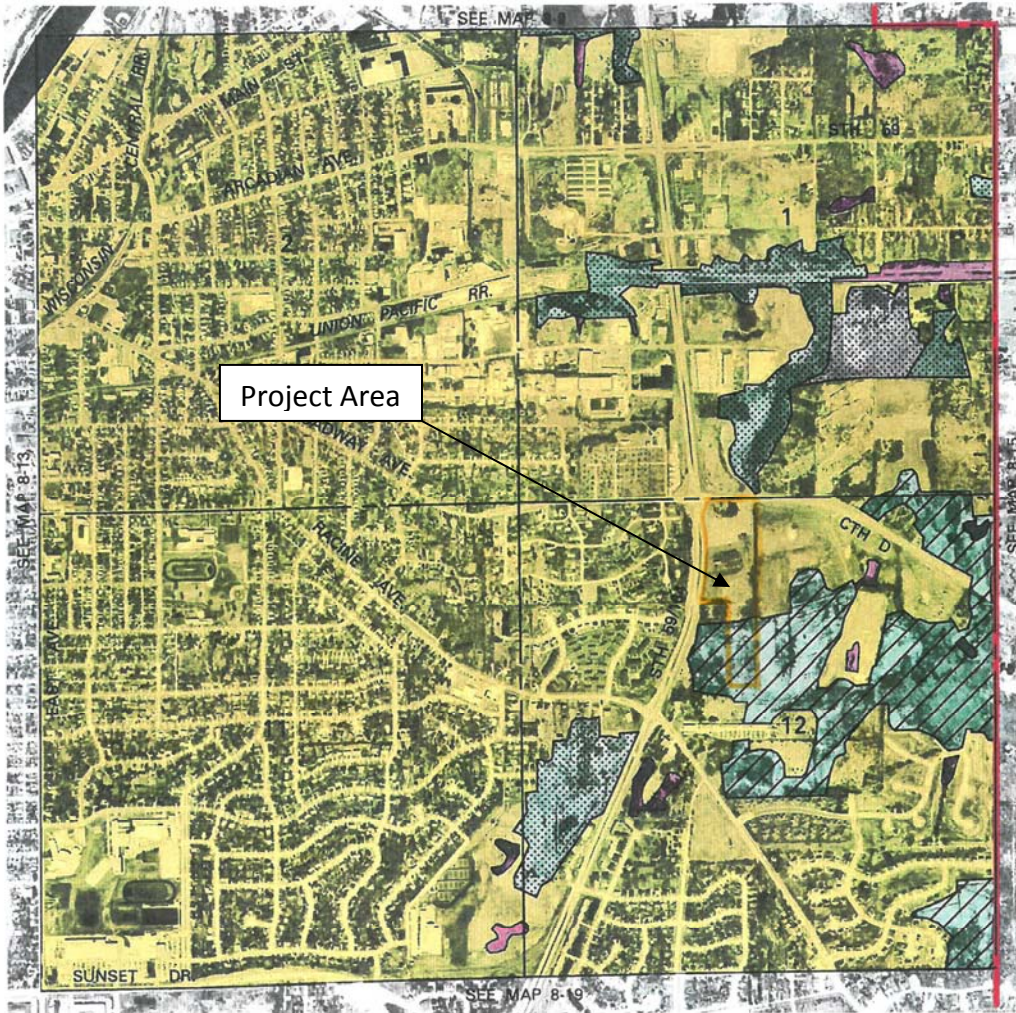
EXHIBIT 5. Sewer Service Area Map




Salem United Methodist Church
 NW Quarter, Section 12, T6N-R19E
 City of Waukesha, Waukesha County

Map 8-14

ENVIRONMENTALLY SIGNIFICANT LANDS AND PLANNED SANITARY SEWER SERVICE AREA FOR THE CITY OF WAUKESHA AND ENVIRONS

U. S. Public Land Survey Sections 1, 2, 11, and 12
 Township 6 North, Range 19 East



- | | |
|--|---|
|  PRIMARY ENVIRONMENTAL CORRIDOR |  PLANNED SANITARY SEWER SERVICE AREA |
|  ISOLATED NATURAL RESOURCE AREA |  GROSS SANITARY SEWER SERVICE AREA BOUNDARY |
|  WETLANDS AND SURFACE WATER AREAS LESS THAN FIVE ACRES IN SIZE |  LANDS WITHIN THE PLANNED SANITARY SEWER SERVICE AREA INELIGIBLE FOR SEWER SERVICE |
|  SURFACE WATER WITHIN ENVIRONMENTAL CORRIDORS AND ISOLATED NATURAL RESOURCE AREAS | |

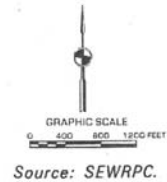


EXHIBIT 6. Draft NRCS Wetland Inventory Map

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County

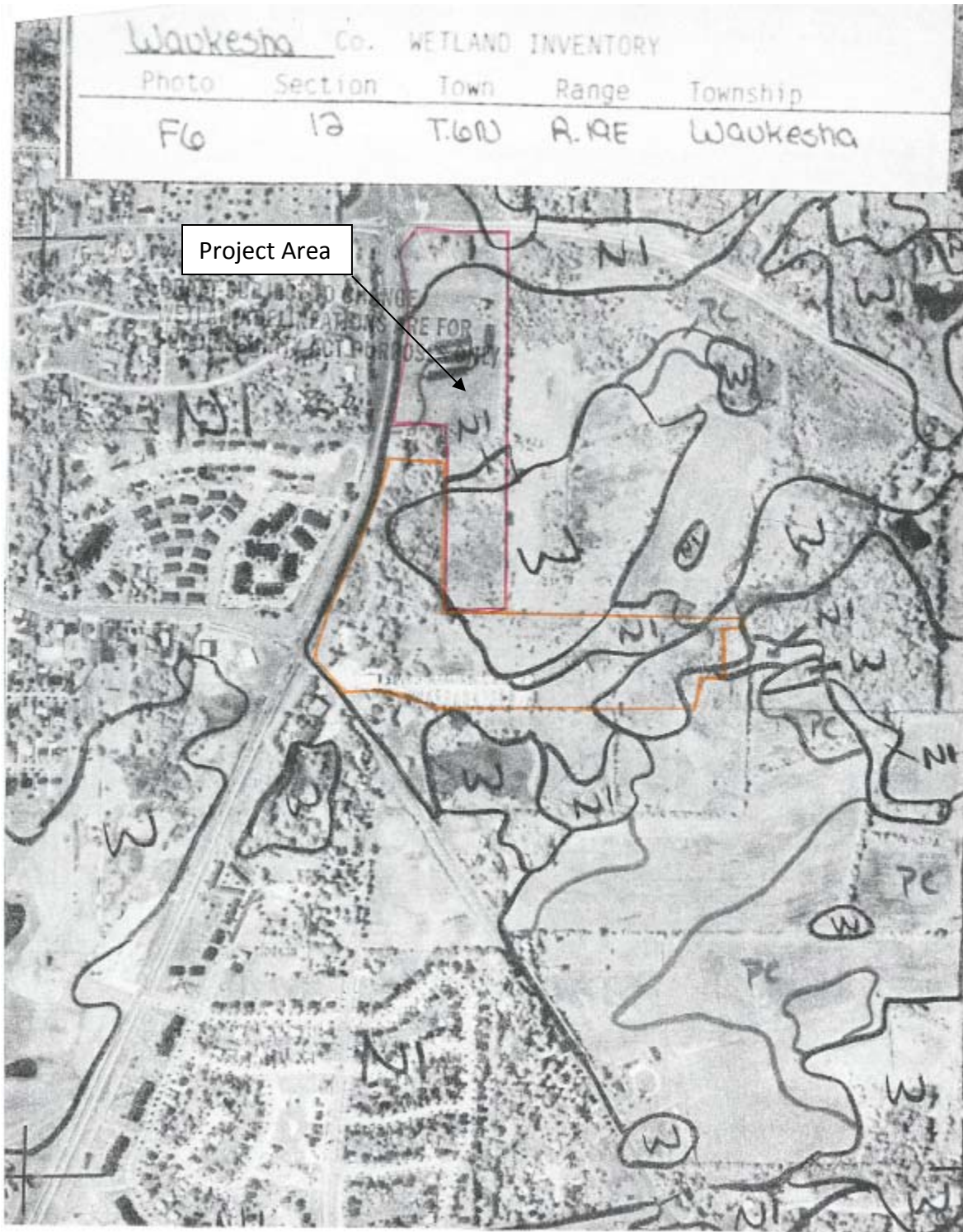


EXHIBIT 7. ADID Wetland Map

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County

ADID Wetlands In Southeast Wisconsin



Legend

- 2010 Wetlands
- ADID Wetlands
- ADID Lakes and Ponds
- ADID Natural Area Wetlands
- 2010 Primary Environmental Corridors

1 inch = 478 feet



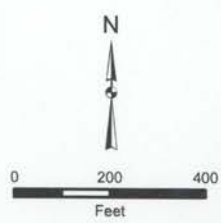
Exhibit 8. Wetland Delineation

Salem United Methodist Church
NW Quarter, Section 12, T6N-R19E
City of Waukesha, Waukesha County



Legend

- Project Area
- Primary Environmental Corridor (PEC)
- PEC Staked by SEWRPC on 7/15/15
- Approximate Wetland Boundary Staked by SEWRPC on 7/15/15
- Wetland
- Plant Community Number
- Sample Site
- Sample Number
- Surface Water
- Flow Direction



Source: SEWRPC
Date of Photography: 2015
CA#737-269

EXHIBIT 9. PRELIMINARY VEGETATION SURVEY

SALEM UNITED METHODIST CHURCH

Date: July 15, 2015

Observers: Daniel L. Carter, Ph.D., Principal Biologist
Christopher J. Jors, Senior Biologist
Jennifer Dietl, Biologist
Southeastern Wisconsin Regional Planning Commission

Location: City of Waukesha in parts of the Northwest one-quarter of U.S. Public Land Survey Section 12, Township 6 North, Range 19 East, Waukesha County, Wisconsin.

Species List: Plant Community Area No. 1 – Native Species
Co-dominant species

Acer negundo--Boxelder

Asclepias syriaca--Common milkweed
Carya ovata--Shagbark hickory
Circaea canadensis--Enchanter's nightshade
Cornus racemosa--Grey dogwood
Erigeron annuus--Annual fleabane
Euthamia graminifolia--Grass-leaved goldenrod
Galium triflorum--Sweet-scented bedstraw
Geum canadense--White avens
Glyceria striata--Fowl manna grass
Impatiens capensis--Jewelweed
Juglans nigra--Black walnut
Monarda fistulosa--Wild bergamot
Oxalis stricta--Common wood sorrel
Solidago altissima--Tall goldenrod
Solidago gigantea--Giant goldenrod
Symphotrichum lateriflorum--Calico aster
Ulmus americana--American elm
Verbena urticifolia--White vervain
Viburnum lentago--Nannyberry
Vitis riparia--Riverbank grape

NON-Native Species

Frangula alnus--Glossy buckthorn
Hesperis matronalis--Dame's rocket
Lonicera X bella--Hybrid honeysuckle
Rhamnus cathartica--Common buckthorn

Total number of plant species: 25
Number of alien, or non-native, plant species: 4 (16 percent)

This approximately 0.55-acre upland plant community area is part of a larger primary environmental corridor complex and consists of undifferentiated hardwoods. Disturbances to the plant community area include past agricultural land management activities. No Federal- or State-designated Special Concern, Threatened, or Endangered species were observed during the field inspection.

Plant Community Area No. 2 – Native Species

Acer negundo--BoxelderCircaea lutetiana--Enchanter's nightshadeEchinocystis lobata--Wild cucumberGeum canadense--White avensGlyceria striata--Fowl manna grassImpatiens capensis--JewelweedSalix amygdaloides--Peach-leaved willowSalix petiolaris--Petioled willowSolidago gigantea--Giant goldenrodUlmus americana--American elmUrtica dioica--Stinging nettleViburnum lentago--NannyberryVitis riparia--Riverbank grape

NON-Native Species

Alliaria petiolata--Garlic-mustardFragula alnus--Glossy buckthornHesperis matronalis--Dame's rocket**Phalaris arundinacea--Reed canary grass**Rhamnus cathartica--Common buckthorn**Typha angustifolia--Narrow-leaved cat-tail**

Total number of plant species: 19

Number of alien, or non-native, plant species: 6 (32 percent)

This approximately 7.2-acre plant community area is part of a larger wetland complex and consists of shallow marsh, fresh (wet) meadow, and second growth, Southern wet to wet-mesic lowland hardwoods. Disturbances to the plant community area include past agricultural land management activities. No Federal- or State-designated Special Concern, Threatened, or Endangered species were observed during the field inspection.

EXHIBIT 10.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Salem United Methodist Church City/County: City of Waukesha/Waukesha County Sampling Date: 07/15/2015
 Applicant/Owner: _____ State: WI Sampling Point: 1
 Investigator(s): Jen Dietl, Dan Carter, Chris Jors; SEWRPC Section, Township, Range: NW 1/4 Section 12, T6N, R19E
 Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): concave Slope (%): 0-2%
 Subregion (LRR or MLRA): LRR K Lat: _____ Long: _____ Datum: _____ NWI classification: _____
 Soil Map Unit Name: Pella silt loam (Ph)
 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation drier than normal. Sample site located in a depressional area dominated with hydrophytic vegetation. In addition, a dark line that is present on 2010 orthophotograph appeared to be a ditch with surface water. However, upon further inspection this feature was determined to be a silt fence not a water feature. Ultimately, this site was determined to be upland after no hydric soil indicators were found.	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <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"/> Marl Deposits (B15) <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"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <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 type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>23</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Map (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial Photos (Exhibit 4).	
Remarks:	

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	<input type="checkbox"/>	_____
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
	0	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30' radius)			
1. <u>Rhamnus cathartica</u>	15	<input checked="" type="checkbox"/>	FAC
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
	15	= Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. <u>Phalaris arundinacea</u>	100	<input checked="" type="checkbox"/>	FACW
2. <u>Solidago altissima</u>	15	<input type="checkbox"/>	FACU
3. <u>Asclepias syriace</u>	10	<input type="checkbox"/>	FACU
4. <u>Solidago gigantea</u>	10	<input type="checkbox"/>	FACW
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
8. _____	_____	<input type="checkbox"/>	_____
9. _____	_____	<input type="checkbox"/>	_____
10. _____	_____	<input type="checkbox"/>	_____
11. _____	_____	<input type="checkbox"/>	_____
12. _____	_____	<input type="checkbox"/>	_____
	135	= Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. _____	_____	<input type="checkbox"/>	_____
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
	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% (A/B)

Prevalence Index worksheet:

<u>Total % Cover of:</u>	<u>Multiply by:</u>
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 = _____	

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

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.

Definitions of Vegetation Strata:

Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height

Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height

Hydrophytic Vegetation Present? Yes No

Remarks: (include photo number here or on a separate sheet.) Old field with scattered buckthorns.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Salem United Methodist Church

City/County: City of Waukesha/Waukesha County

Sampling Date: 07/15/2015

Applicant/Owner: _____

State: WI

Sampling Point: 2

Investigator(s): Jen Dietl, Dan Carter, Chris Jors; SEWRPC

Section, Township, Range: NW 1/4 Section 12, T6N, R19E

Landform (hillslope, terrace, etc.): terrace

Local relief (concave, convex, none): none

Slope (%): 1-3%

Subregion (LRR or MLRA): LRR K

Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: Pistakee silt loam (PrA)

NWI 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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the Sampled Area within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, optional Wetland Site ID: <u>Plant Community Area (PCA) 1</u>
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Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation drier than normal.

HYDROLOGY

<p>Wetland Hydrology Indicators:</p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <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"/> Marl Deposits (B15) <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"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<p><u>Secondary Indicators (minimum of two required)</u></p> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <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"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
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<p>Field Observations:</p> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	<p>Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Map (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial Photos (Exhibit 4).

Remarks:

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	<input type="checkbox"/>	_____
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
	<u>0</u>	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30' radius)			
1. <u>Cornus racemosa</u>	<u>40</u>	<input checked="" type="checkbox"/>	FAC
2. <u>Lonicera x bella</u>	<u>40</u>	<input checked="" type="checkbox"/>	FACU
3. <u>Rhamnus cathartica</u>	<u>40</u>	<input checked="" type="checkbox"/>	FAC
4. <u>Frangula alnus</u>	<u>5</u>	<input type="checkbox"/>	FAC
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
	<u>125</u>	= Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. <u>Circaea canadensis</u>	<u>40</u>	<input checked="" type="checkbox"/>	FACU
2. <u>Galium triflorum</u>	<u>30</u>	<input checked="" type="checkbox"/>	FACU
3. <u>Solidago altissima</u>	<u>30</u>	<input checked="" type="checkbox"/>	FACU
4. <u>Geum canadense</u>	<u>10</u>	<input type="checkbox"/>	FAC
5. <u>Solidago gigantea</u>	<u>5</u>	<input type="checkbox"/>	FACW
6. <u>Symphotrichum lateriflorum</u>	<u>5</u>	<input type="checkbox"/>	FAC
7. <u>Impatiens capensis</u>	<u>2</u>	<input type="checkbox"/>	FACW
8. <u>Glyceria striata</u>	<u>1</u>	<input type="checkbox"/>	OBL
9. _____	_____	<input type="checkbox"/>	_____
10. _____	_____	<input type="checkbox"/>	_____
11. _____	_____	<input type="checkbox"/>	_____
12. _____	_____	<input type="checkbox"/>	_____
	<u>123</u>	= Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. <u>Vitis riparia</u>	<u>3</u>	<input type="checkbox"/>	FAC
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
	<u>3</u>	= 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: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

Prevalence Index worksheet:

<u>Total % Cover of:</u>	<u>Multiply by:</u>
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 = _____	

Hydrophytic Vegetation Indicators:

- Rapid Test for Hydrophytic Vegetation
- Dominance Test is >50%
- Prevalence Index is ≤3.0¹
- 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.

Definitions of Vegetation Strata:

Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height

Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height

Hydrophytic Vegetation Present? Yes No

Remarks: (include photo number here or on a separate sheet.) Shrub thicket.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Salem United Methodist Church

City/County: City of Waukesha/Waukesha County

Sampling Date: 07/15/2015

Applicant/Owner: _____

State: WI

Sampling Point: 3

Investigator(s): Jen Dietl, Dan Carter, Chris Jors; SEWRPC

Section, Township, Range: NW 1/4 Section 12, T6N, R19E

Landform (hillslope, terrace, etc.): low terrace

Local relief (concave, convex, none): none

Slope (%): 1-3%

Subregion (LRR or MLRA): LRR K

Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: Pistakee silt loam (PrA)

NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks)

Yes No (If no, explain in Remarks)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Yes No

Are "Normal Circumstances" present? Yes No

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? Yes No (If, needed, explain any answers in Remarks.)

(If, needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, optional Wetland Site ID: <u>PCA 2</u>
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Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation drier than normal.

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <table style="width:100%; border: none;"> <tr> <td><input type="checkbox"/> Surface Water (A1)</td> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Marl Deposits (B15)</td> </tr> <tr> <td><input type="checkbox"/> Water marks (B1)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<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"/> Marl Deposits (B15)	<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"/> Other (Explain in Remarks)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		Secondary Indicators (minimum of two required) <table style="width:100%; border: none;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Stunted or Stressed Plants (D1)</td></tr> <tr><td><input checked="" type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="checkbox"/> Microtopographic Relief (D4)</td></tr> <tr><td><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</td></tr> </table>	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Moss Trim Lines (B16)	<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 type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Microtopographic Relief (D4)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<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"/> Marl Deposits (B15)																															
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<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)																															
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<input type="checkbox"/> Microtopographic Relief (D4)																																
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)																																

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>15</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Map (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial Photos (Exhibit 4).

Remarks:

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>Acer negundo</u>	<u>75</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
	<u>75</u>	= Total Cover	
Sapling/Shrub Stratum (Plot size: 30' radius)			
1. <u>Rhamnus cathartica</u>	<u>80</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
2. <u>Viburnum lentago</u>	<u>15</u>	<input type="checkbox"/>	<u>FAC</u>
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
5. _____	_____	<input type="checkbox"/>	_____
6. _____	_____	<input type="checkbox"/>	_____
7. _____	_____	<input type="checkbox"/>	_____
	<u>95</u>	= Total Cover	
Herb Stratum (Plot size: 5' radius)			
1. <u>Impatiens capensis</u>	<u>60</u>	<input checked="" type="checkbox"/>	<u>FACW</u>
2. <u>Phalaris arundinacea</u>	<u>10</u>	<input type="checkbox"/>	<u>FACW</u>
3. <u>Urtica dioica</u>	<u>10</u>	<input type="checkbox"/>	<u>FAC</u>
4. <u>Geum canadense</u>	<u>5</u>	<input type="checkbox"/>	<u>FAC</u>
5. <u>Glyceria striata</u>	<u>5</u>	<input type="checkbox"/>	<u>OBL</u>
6. <u>Hesperis matronalis</u>	<u>5</u>	<input type="checkbox"/>	<u>FACU</u>
7. <u>Solidago gigantea</u>	<u>5</u>	<input type="checkbox"/>	<u>FACW</u>
8. <u>Alliaria petiolata</u>	<u>3</u>	<input type="checkbox"/>	<u>FACU</u>
9. _____	_____	<input type="checkbox"/>	_____
10. _____	_____	<input type="checkbox"/>	_____
11. _____	_____	<input type="checkbox"/>	_____
12. _____	_____	<input type="checkbox"/>	_____
	<u>103</u>	= Total Cover	
Woody Vine Stratum (Plot size: 30' radius)			
1. <u>Vitis riparia</u>	<u>10</u>	<input checked="" type="checkbox"/>	<u>FAC</u>
2. _____	_____	<input type="checkbox"/>	_____
3. _____	_____	<input type="checkbox"/>	_____
4. _____	_____	<input type="checkbox"/>	_____
	<u>10</u>	= 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% (A/B)

Prevalence Index worksheet:

<u>Total % Cover of:</u>	<u>Multiply by:</u>
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 = _____	

Hydrophytic Vegetation Indicators:

Rapid Test for Hydrophytic Vegetation

Dominance Test is >50%

Prevalence Index is ≤3.0¹

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.

Definitions of Vegetation Strata:

Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height

Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height

Hydrophytic Vegetation Present? Yes No

Remarks: (include photo number here or on a separate sheet.) Buckthorn thicket and lowland hardwoods.

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					Loam	
13-18	10YR 2/1	100					Clay loam	
18-24	10YR 6/1	60	10YR 6/6	20	C	PL M	Clay	with disintegrating dolomite
	10YR 2/1	20						

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS= Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LLR K, L, R)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LLR K, L, R)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (F21)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			
<input type="checkbox"/> Sandy Redox (S5)			
<input type="checkbox"/> Stripped Matrix (S6)			
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)			

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Salem United Methodist Church City/County: City of Waukesha/Waukesha County Sampling Date: 07/15/2015
 Applicant/Owner: _____ State: WI Sampling Point: 4
 Investigator(s): Jen Dietl, Dan Carter, Chris Jors; SEWRPC Section, Township, Range: NW 1/4 Section 12, T6N, R19E
 Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 0-3%
 Subregion (LRR or MLRA): LRR K Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: Walkkill silt loam (Wa) NWI classification: S3/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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Hydric Soils Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Wetland Hydrology Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is the Sampled Area within a Wetland? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, optional Wetland Site ID: <u>PCA 2</u>
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Remarks: (Explain alternative procedures here or in a separate report.) Antecedent precipitation drier than normal.

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <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"/> Marl Deposits (B15) <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"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input checked="" 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 type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>21</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>4</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Topo Map (Exhibit 1), WWI Map (Exhibit 2), Soils Map (Exhibit 3), and Aerial Photos (Exhibit 4).

Remarks:

	Absolute % Cover	Dominant Species?	Indicator Status																	
Tree Stratum (Plot size: 30' radius)																				
1. <u>Acer negundo</u>	20	<input checked="" type="checkbox"/>	FAC	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%</u> (A/B)																
2. _____	_____	<input type="checkbox"/>	_____																	
3. _____	_____	<input type="checkbox"/>	_____																	
4. _____	_____	<input type="checkbox"/>	_____																	
5. _____	_____	<input type="checkbox"/>	_____																	
6. _____	_____	<input type="checkbox"/>	_____																	
7. _____	_____	<input type="checkbox"/>	_____																	
	<u>20</u>	= Total Cover																		
Sapling/Shrub Stratum (Plot size: 30' radius)																				
1. _____	_____	<input type="checkbox"/>	_____																	
2. _____	_____	<input type="checkbox"/>	_____																	
3. _____	_____	<input type="checkbox"/>	_____																	
4. _____	_____	<input type="checkbox"/>	_____																	
5. _____	_____	<input type="checkbox"/>	_____																	
6. _____	_____	<input type="checkbox"/>	_____																	
7. _____	_____	<input type="checkbox"/>	_____																	
	<u>0</u>	= Total Cover																		
Herb Stratum (Plot size: 5' radius)																				
1. <u>Phalaris arundinacea</u>	120	<input checked="" type="checkbox"/>	FACW	Prevalence Index worksheet: <table style="width:100%; border:none;"> <tr> <td style="text-align:right;"><u>Total % Cover of:</u></td> <td style="text-align:right;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____ x 1 = _____</td> <td></td> </tr> <tr> <td>FACW species _____ x 2 = _____</td> <td></td> </tr> <tr> <td>FAC species _____ x 3 = _____</td> <td></td> </tr> <tr> <td>FACU species _____ x 4 = _____</td> <td></td> </tr> <tr> <td>UPL species _____ x 5 = _____</td> <td></td> </tr> <tr> <td>Column Totals: _____ (A) _____ (B)</td> <td></td> </tr> <tr> <td colspan="2" style="text-align:center;">Prevalence Index = B/A = _____</td> </tr> </table> Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 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.	<u>Total % Cover of:</u>	<u>Multiply by:</u>	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 = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
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. _____	_____	<input type="checkbox"/>	_____																	
3. _____	_____	<input type="checkbox"/>	_____																	
4. _____	_____	<input type="checkbox"/>	_____																	
5. _____	_____	<input type="checkbox"/>	_____																	
6. _____	_____	<input type="checkbox"/>	_____																	
7. _____	_____	<input type="checkbox"/>	_____																	
8. _____	_____	<input type="checkbox"/>	_____																	
9. _____	_____	<input type="checkbox"/>	_____																	
10. _____	_____	<input type="checkbox"/>	_____																	
11. _____	_____	<input type="checkbox"/>	_____																	
12. _____	_____	<input type="checkbox"/>	_____																	
	<u>120</u>	= Total Cover																		
Woody Vine Stratum (Plot size: 30' radius)																				
1. _____	_____	<input type="checkbox"/>	_____																	
2. _____	_____	<input type="checkbox"/>	_____																	
3. _____	_____	<input type="checkbox"/>	_____																	
4. _____	_____	<input type="checkbox"/>	_____																	
	<u>0</u>	= Total Cover																		
Definitions of Vegetation Strata: Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height																				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																				
Remarks: (include photo number here or on a separate sheet.) Fresh (wet) meadow with scattered lowland hardwoods.																				

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					Muck	
8-14	10YR 2/1	100					Mucky loam	
14-19	N 2.5/1	65	2.5Y 5/6	15	C	PL M	Clay	
	10YR 3/2	20						
19-27	5GY 5/1	60	2.5Y 5/6	40	C	PL M	Clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS= Masked Sand Grains ²Location: PL=Pore Lining, M=Matrix

Hydric Soil Indicators:		Indicators for Problematic Hydric Soils³:	
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B)	<input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B)	<input type="checkbox"/> Coast Prairie Redox (A16) (LLR K, L, R)
<input checked="" type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B)	<input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LLR K, L, R)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L)	<input type="checkbox"/> Dark Surface (S7) (LRR K, L)	<input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L)	<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R)
<input type="checkbox"/> Stratified Layers (A5)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B)	<input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Redox Dark Surface (F6)	<input type="checkbox"/> Red Parent Material (F21)	<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<input checked="" type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Depleted Dark Surface (F7)	<input type="checkbox"/> Other (Explain in Remarks)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Redox Depressions (F8)		
<input type="checkbox"/> Sandy Gleyed Matrix (S4)			
<input type="checkbox"/> Sandy Redox (S5)			
<input type="checkbox"/> Stripped Matrix (S6)			
<input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B)			

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

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Remarks:

EXHIBIT 11. SITE PHOTOS
Salem United Methodist Church
NW Quarter, Section 12, T6N, R19E
City of Waukesha, Waukesha County

Photo 1. Upland sample site 1.
Old field with scattered buckthorns.



Photo 2. Upland sample site 2.
Shrub thicket.

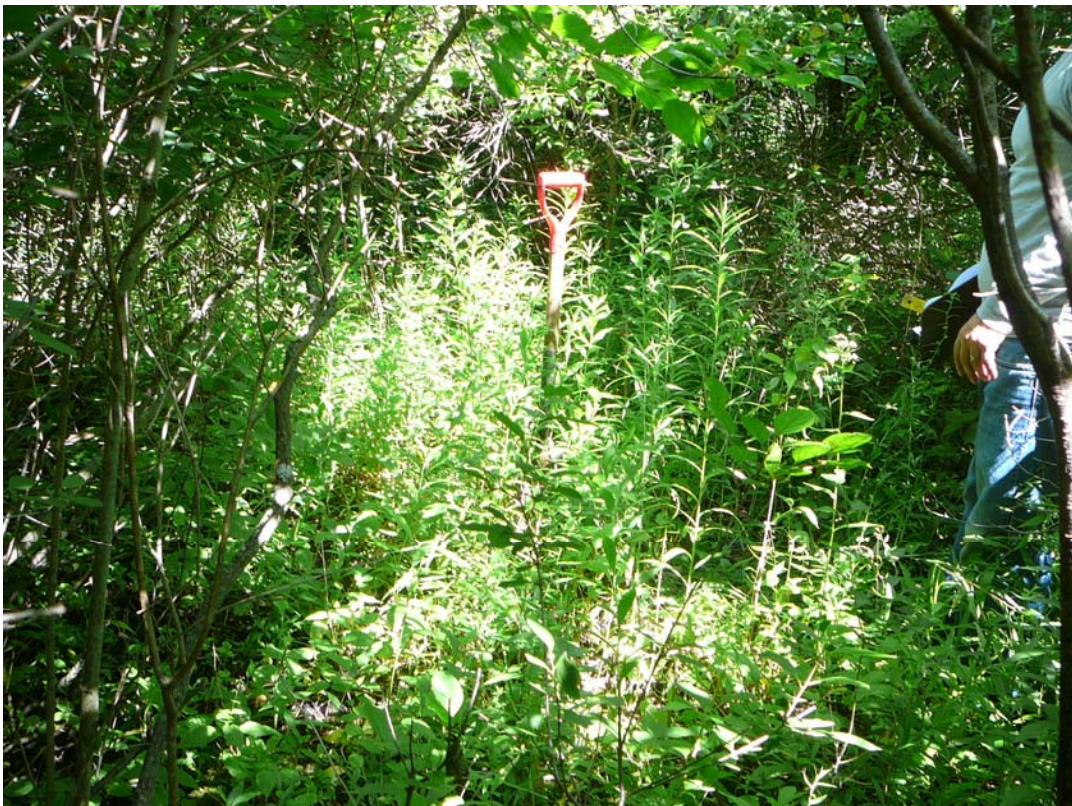


EXHIBIT 11. SITE PHOTOS
Salem United Methodist Church
NW Quarter, Section 12, T6N, R19E
City of Waukesha, Waukesha County

Photo 3. Wetland sample site 3.
Buckthorn thicket and lowland hardwoods.



Photo 4. Wetland sample site 4.
Fresh (wet) meadow.



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