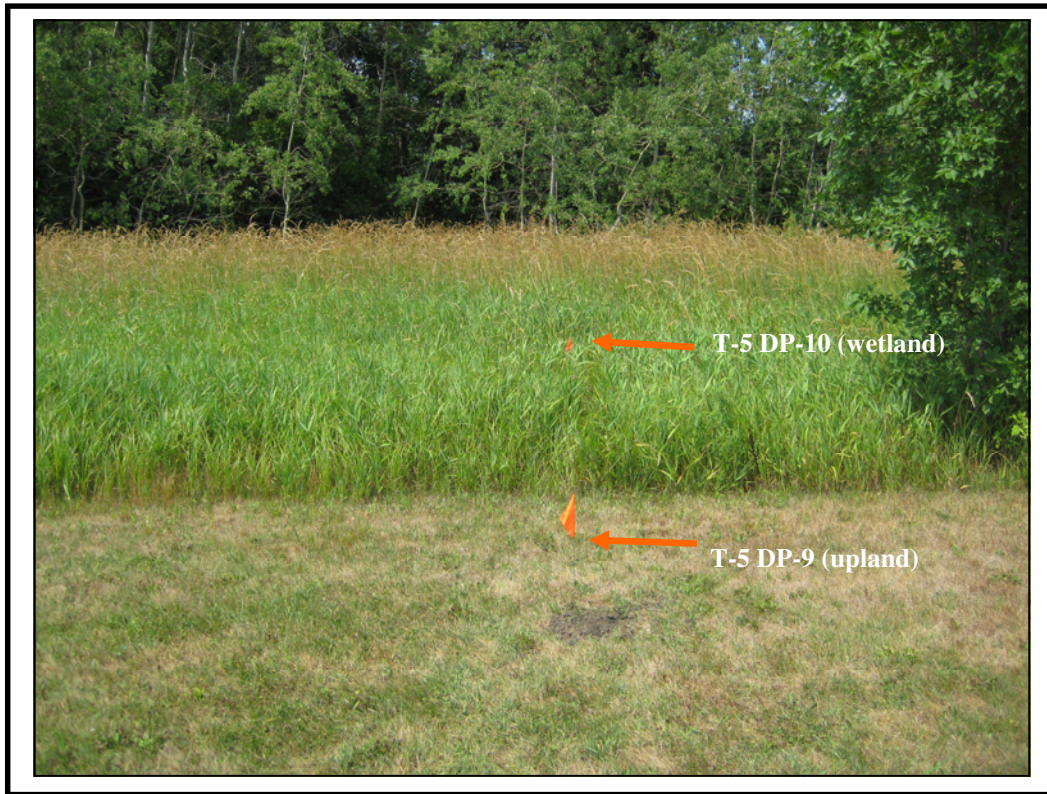


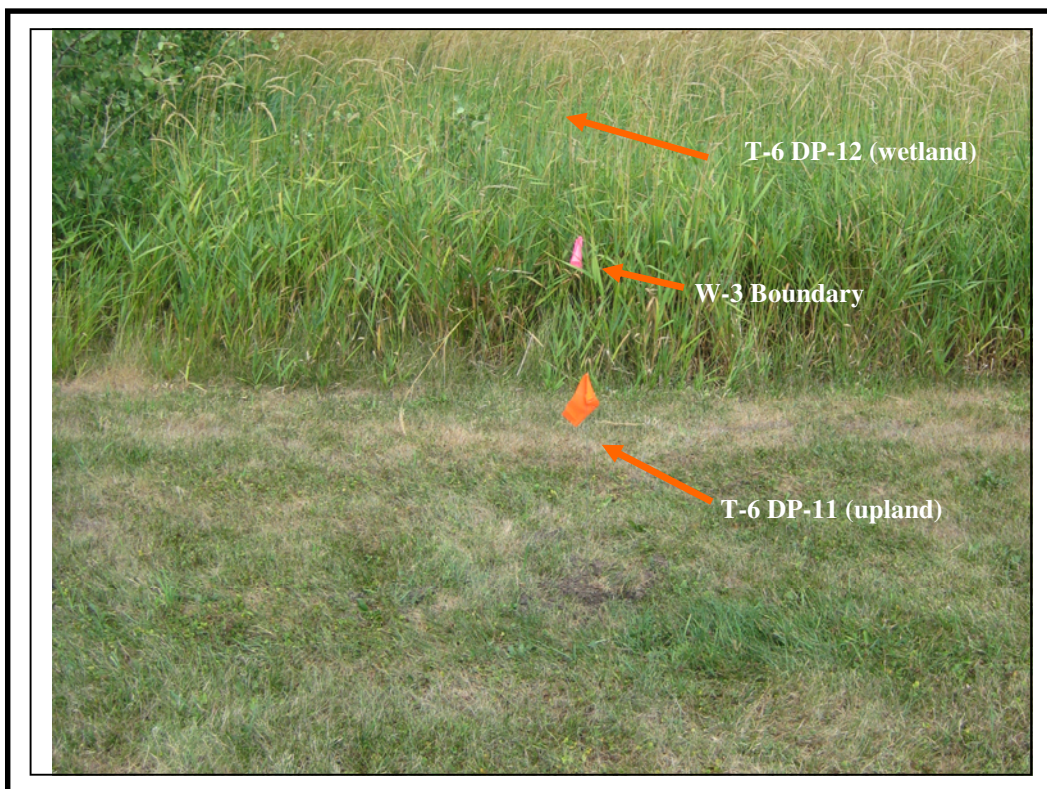
Photograph 9 (7/24/2012): East facing view of Transect 4 within W-2.



Photograph 10 (7/24/2012): Interior view of W-2, a shrub carr.



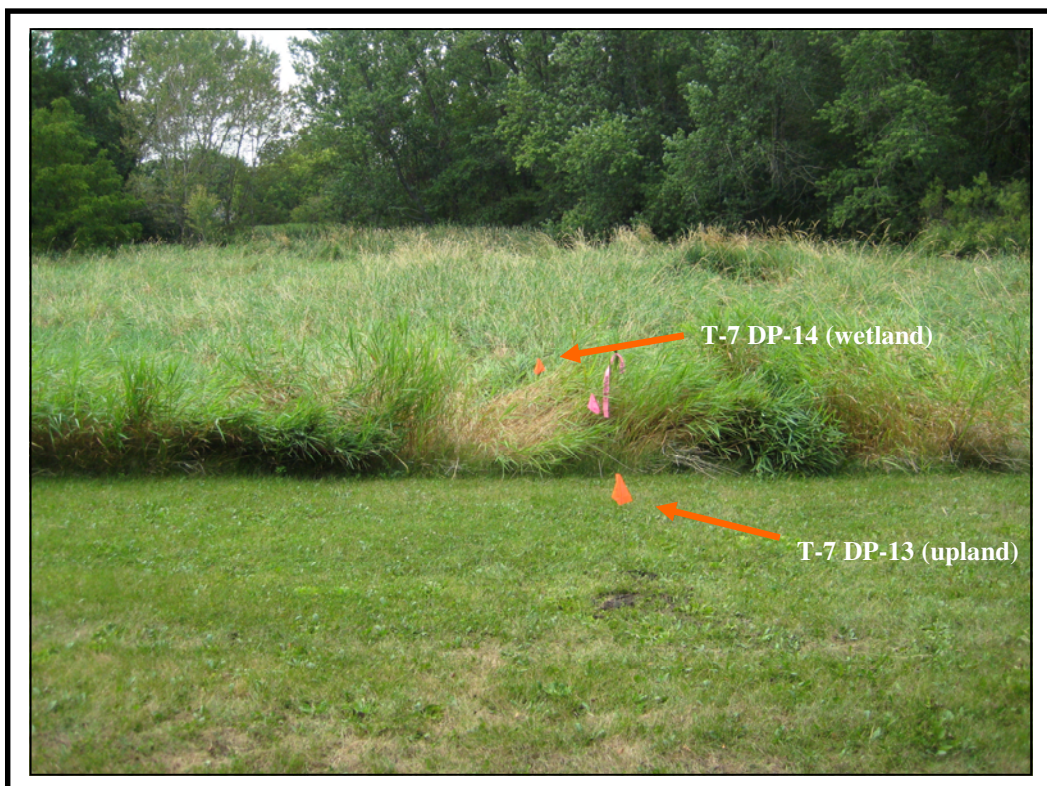
Photograph 9 (7/24/2012): North facing view of Transect 5 along W-3's boundary.



Photograph 10 (7/24/2012): East facing view of Transect 6 along the W-3 boundary.



Photograph 9 (7/24/2012): Overview of W-3, facing east.



Photograph 10 (7/24/2012): South facing view of Transect 7 along W-4's boundary.



Photograph 9 (7/24/2012): Northeast facing view of Transect 8 along W-4's boundary.



Photograph 10 (7/24/2012): Southwest facing view along the W-4 boundary.

Appendix 3:

Wetland Determination Data Forms – Midwest Region

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-1 DP-1(upl)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Morley silt loam (MzdB2), 2-6% slopes, eroded 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 No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil No or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	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>	

If yes, optional wetland site ID:

Remarks: Climatic conditions are very dry for this time of year -4-6 inches below average precipitation at date of site visit.

VEGETATION - Use scientific names for plants.

Sampling Point: T-1 DP-1(upl)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	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%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
	<u>0</u> = Total Cover			
Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u>0</u> x 1 = <u>0</u> FACW species <u>10</u> x 2 = <u>20</u> FAC species <u>85</u> x 3 = <u>255</u> FACU species <u>92</u> x 4 = <u>368</u> UPL species <u>75</u> x 5 = <u>375</u> Column Totals: <u>262</u> (A) <u>1018</u> (B) Prevalence Index B/A = <u>3.9</u>				
Hydrophytic Vegetation Indicators: <u> </u> Rapid Test for Hydrophytic Vegetation <u> </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.				
Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>				
Sapling/Shrub Stratum (Plot size: <u>15'R</u>)				
1. <u>Malus pumila</u>	<u>30</u>	<u>Y</u>	<u>UPL</u>	
2. <u>Rhamnus cathartica</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
3. <u>Cornus alba</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
	<u>40</u> = Total Cover			
Herb Stratum (Plot size: <u>5'R</u>)				
1. <u>Poa pratensis</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Solidago canadensis</u>	<u>30</u>	<u>N</u>	<u>FACU</u>	
3. <u>Melilotus officinalis</u>	<u>30</u>	<u>N</u>	<u>FACU</u>	
4. <u>Rudbeckia hirta</u>	<u>30</u>	<u>N</u>	<u>FACU</u>	
5. <u>Solidago rigida</u>	<u>25</u>	<u>N</u>	<u>UPL</u>	
6. <u>Daucus carota</u>	<u>20</u>	<u>N</u>	<u>UPL</u>	
7. <u>Fraxinus pennsylvanica</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	
8. <u>Taraxacum officinale</u>	<u>2</u>	<u>N</u>	<u>FACU</u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
	<u>222</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>n/a</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
	<u>0</u> = Total Cover			

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

The plant community is an upland meadow with some prairie remnant species. The prevalence index is above 3.0 and area lacks hydric soil and wetland hydrology.

Sampling Point: **T-1 DP-1(upl)**

[illegible]

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: 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)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table					
Remarks: No wetland hydrology indicators present at this data point.					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-1 DP-2 (wtd)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil **Yes or Hydrology **Yes 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> If yes, optional wetland site ID: <u>W-1</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>*4-6 inches below average precipitation - drought conditions</u> <u>**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology</u>			

VEGETATION - Use scientific names for plants.

Sampling Point: T-1 DP-2 (wtd)

Tree Stratum (Plot size: <u>30'R</u>)	Absolute % Cover	Dominant Species	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%</u> (A/B)
1. <u>Salix nigra</u>	<u>20</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Populus tremuloides</u>	<u>2</u>	<u>N</u>	<u>FAC</u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> 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>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u>22</u>	<u> </u>	<u> </u>	
<u>22</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'R</u>)				
1. <u>Salix discolor</u>	<u>80</u>	<u>Y</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>X</u> Rapid Test for Hydrophytic Vegetation <u> </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)
2. <u>Cornus alba</u>	<u>20</u>	<u>N</u>	<u>FACW</u>	
3. <u>Cornus racemosa</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
4. <u>Populus tremuloides</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
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110. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
111. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
112. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
113. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
114. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
115. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
116. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
117. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
118. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
119. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
120. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
121. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
122. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
123. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
124. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
125. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
126. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
127. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
128. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
129. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
130. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
131. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
132. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
133. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
134. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
135. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
136. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
137. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
138. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
139. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
140. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
141. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
142. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
143. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
144. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
145. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
146. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
147. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
148. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
149. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
150. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
151. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
152. <u> </u>	<			

Sampling Point: T-1 DP-2 (wtd)

HYDROLOGY

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

Midwest Region - Version 2.0

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-2 DP-3(upl)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes 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 No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil **Yes or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	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>X</u>	No <u> </u>	If yes, optional wetland site ID:	<u> </u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			

Remarks: ***4-6 inches below average precipitation - drought conditions**
****The soil is a mollisol containing a dark surface horizon, but vegetation and landscape position are indicative of uplands.**

VEGETATION - Use scientific names for plants.

Sampling Point: T-2 DP-3(upl)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	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%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u>)				Hydrophytic Vegetation Indicators: <u> </u> Rapid Test for Hydrophytic Vegetation <u> </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.
1. <u>Malus pumila</u>	<u>5</u>	<u>Y</u>	<u>UPL</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u>5</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u>)				
1. <u>Poa pratensis</u>	<u>95</u>	<u>Y</u>	<u>FAC</u>	
2. <u>Daucus carota</u>	<u>30</u>	<u>N</u>	<u>UPL</u>	
3. <u>Solidago canadensis</u>	<u>15</u>	<u>N</u>	<u>FACU</u>	
4. <u>Phalaris arundinacea</u>	<u>10</u>	<u>N</u>	<u>FACW</u>	
5. <u>Euthamia graminifolia</u>	<u>8</u>	<u>N</u>	<u>FACW</u>	
6. <u>Ambrosia artemisiifolia</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. <u>Vitis riparia</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
14. <u> </u>	<u>165</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u>)				Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u>0</u>	= Total Cover		

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

The hydrophytic vegetation criterion is not met. The prevalence index is above 3.0. Hydric soil present but not wetland hydrology.

SOIL

Sampling Point: **T-2 DP-3(upl)**

[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: 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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table					
Remarks: No wetland hydrology indicators present. There is a subtle topo break between the upland and wetland boundary.					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-2 DP-4 (wtd)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil **Yes or Hydrology **Yes 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> If yes, optional wetland site ID: <u>W-1</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>*4-6 inches below average precipitation - drought conditions</u> <u>**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology</u>			

VEGETATION - Use scientific names for plants.

Sampling Point: T-2 DP-4 (wtd)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	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%</u> (A/B)
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
	<u>0</u>	= Total Cover		
Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> OBL species <u>10</u> x 1 = <u>10</u> FACW species <u>59</u> x 2 = <u>118</u> FAC species <u>95</u> x 3 = <u>285</u> FACU species <u>0</u> x 4 = <u>0</u> UPL species <u>0</u> x 5 = <u>0</u> Column Totals: <u>164</u> (A) <u>413</u> (B) Prevalence Index B/A = <u>2.5</u>				
Hydrophytic Vegetation Indicators: <u>X</u> Rapid Test for Hydrophytic Vegetation <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.				
Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>				
Sapling/Shrub Stratum (Plot size: <u>n/a</u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> 5. <u> </u> 6. <u> </u> 7. <u> </u> <u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'R</u>) 1. <u>Poa pratensis</u> <u>95</u> <u>Y</u> <u>FAC</u> 2. <u>Phalaris arundinacea</u> <u>25</u> <u>N</u> <u>FACW</u> 3. <u>Solidago gigantea</u> <u>20</u> <u>N</u> <u>FACW</u> 4. <u>Euthamia graminifolia</u> <u>10</u> <u>N</u> <u>FACW</u> 5. <u>Persicaria amphibia</u> <u>10</u> <u>N</u> <u>OBL</u> 6. <u>Juncus dudleyi</u> <u>2</u> <u>N</u> <u>FACW</u> 7. <u>Agrostis gigantea</u> <u>2</u> <u>N</u> <u>FACW</u> 8. <u> </u> 9. <u> </u> 10. <u> </u> 11. <u> </u> 12. <u> </u> 13. <u> </u> 14. <u> </u> <u>164</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>n/a</u>) 1. <u> </u> 2. <u> </u> 3. <u> </u> 4. <u> </u> <u>0</u> = Total Cover				

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

The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow community dominated by Kentucky blue grass.

Prevalence Index was completed to confirm wetland vegetation since KGB also commonly seen in uplands.

Sampling Point: T-2 DP-4 (wtd)

HYDROLOGY

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

- 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) |
| X | Geomorphic Position (D2) |
| X | FAC-Neutral Test (D5) |

Wetland Hydrology Present? Yes X No

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

WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table

Remarks: Seasonal wetland hydrology is present, but secondary indicators were observed.

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-3 DP-5 (upl)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 3-5% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: none mapped
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No *X (if no, explain in Remarks)
 Are Vegetation **Yes Soil **Yes or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation No Soil **Yes or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	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>	If yes, optional wetland site ID:		
Wetland Hydrology Present?	Yes _____	No <u>X</u>			

Remarks: ***4-6 inches below average precipitation - drought conditions**
****The soil is a mollisol containing a dark surface horizon **mowed grass lawn and mixed matrix in soils profile indicating past disturbance**

VEGETATION - Use scientific names for plants.

Sampling Point: T-3 DP-5 (upl)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			

Sapling/Shrub Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			

Herb Stratum (Plot size: <u>5'R</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u>Poa pratensis</u>	<u>80</u>	<u>Y</u>	<u>FAC</u>
2. <u>Elytrigia repens</u>	<u>60</u>	<u>Y</u>	<u>FACU</u>
3. <u>Taraxacum officinale</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
4. <u>Daucus carota</u>	<u>3</u>	<u>N</u>	<u>UPL</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
<u>148</u> = Total Cover			

Woody Vine Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
<u>0</u> = 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: 2 (B)

 Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index Worksheet:
 Total % Cover of:

OBL species	<u>0</u>	x 1 =	<u>0</u>
FACW species	<u>0</u>	x 2 =	<u>0</u>
FAC species	<u>80</u>	x 3 =	<u>240</u>
FACU species	<u>65</u>	x 4 =	<u>260</u>
UPL species	<u>3</u>	x 5 =	<u>15</u>
Column Totals:	<u>148</u>	(A)	<u>515</u> (B)

 Prevalence Index B/A = 3.5

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 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 X

SOIL

Sampling Point: **T-3 DP-5 (upl)**

[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: 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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (includes capillary fringe)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aerals, AHPS Precipitation data, Milwaukee County WETS table					
Remarks: No wetland hydrology indicators present. There is a subtle topo break between the upland and wetland boundary.					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012

Applicant/Owner: Southbrook Church State: WI Sampling Point: T-3 DP-6 (wtd)

Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave

Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2

Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K

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

Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation No Soil **Yes or Hydrology **Yes 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: <u>*4-6 inches below average precipitation - drought conditions</u>			
<u>**Problem soil - Mollisol ** This is a depressional wetland with seasonal hydrology</u>			

VEGETATION - Use scientific names for plants.

Sampling Point: T-3 DP-6 (wtd)

Tree Stratum (Plot size: <u>30'R</u>)	Absolute % Cover	Dominant Species	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%</u> (A/B)
1. <u>Populus deltoides</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> 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>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u>20</u>	<u> </u>	<u> </u>	
<u>20</u> = Total Cover				Hydrophytic Vegetation Indicators: <u>X</u> Rapid Test for Hydrophytic Vegetation <u> </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)
Sapling/Shrub Stratum (Plot size: <u>15'R</u>)				
1. <u>Salix interior</u>	<u>40</u>	<u>Y</u>	<u>FACW</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u>40</u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
<u>40</u> = Total Cover				
Herb Stratum (Plot size: <u>5'R</u>)				
1. <u>Phalaris arundinacea</u>	<u>90</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Poa pratensis</u>	<u>30</u>	<u>N</u>	<u>FAC</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
3. <u>Euthamia graminifolia</u>	<u>30</u>	<u>N</u>	<u>FACW</u>	
4. <u>Lycopus americanus</u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
5. <u>Persicaria amphibia</u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
6. <u>Poa palustris</u>	<u>2</u>	<u>N</u>	<u>FACW</u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
15. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
16. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
17. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
18. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
19. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
20. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
21. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
22. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
23. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
24. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
25. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
26. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
27. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
28. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
29. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
30. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
31. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
32. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
33. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
34. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
35. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
36. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
37. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
38. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
39. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
40. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
41. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
42. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
43. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
44. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
45. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
46. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
47. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
48. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
49. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
50. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
51. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
52. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
53. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
54. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
55. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
56. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
57. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
58. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
59. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
60. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
61. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
62. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
63. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
64. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
65. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
66. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
67. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
68. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
69. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
70. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
71. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
72. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
73. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
74. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
75. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
76. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
77. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
78. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
79. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
80. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
81. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
82. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
83. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
84. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
85. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
86. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
87. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
88. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
89. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
90. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
91. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
92. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
93. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
94. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
95. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
96. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
97. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
98. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
99. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
100. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
101. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
102. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
103. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
104. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
105. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
106. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
107. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
108. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
109. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
110. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
111. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
112. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
113. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
114. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
115. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
116. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
117. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
118. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
119. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
120. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
121. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
122. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
123. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
124. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
125. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
126. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
127. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
128. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
129. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
130. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>
131. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
132. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
133. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
134. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Hydrophytic Vegetation Present? Yes <

Sampling Point: T-3 DP-6 (wtd)

[illegible]

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 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="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? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <input type="text"/> (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: WWI Map, NRCS Soils Map, aerals, AHPS Precipitation data, Milwaukee County WETS table					
Remarks: Seasonal wetland hydrology is present, but secondary indicators were observed.					

Project/Site: Southbrook Church			City/County: Franklin, Milwaukee			Sampling Date: July 24, 2012		
Applicant/Owner: Southbrook Church			State: WI			Sampling Point: T-4 DP-7 (upl)		
Investigator(s): Heather Patti & Tina Myers			Section, Township, Range: NE 1/4 Sec 18, T5N, R21E					
Landform (hillslope, terrace, etc.): hillslope			Local relief (concave, convex, none): convex					
Slope (%): 2-3%		Lat: See Figure 2		Long: See Figure 2		Datum: See Figure 2		
Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes						WWI Classification: none		
Are climatic / hydrologic conditions on the site typical for this time of year?						Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X (if No, explain in Remarks)		
Are Vegetation	No	Soil	No	or Hydrology	No	Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> X No <input type="checkbox"/>		
Are Vegetation	**Yes	Soil	**Yes	or Hydrology	No	(if needed, explain any answers in Remarks)		

Hydrophytic Vegetation Present?	Yes _____	No <u> X </u>	Is the Sampled Area within a Wetland? If yes, optional wetland site ID: <u> n/a </u>
Hydric Soil Present?	Yes _____	No <u> X </u>	
Wetland Hydrology Present?	Yes _____	No <u> X </u>	
Remarks: *4-6 inches below average precipitation - drought conditions **Soil is a mollisol with a dark surface horizon, but vegetation and landscape position are indicative of uplands.			

Sampling Point: **T-4 DP-7 (upl)**

Tree Stratum (Plot size: n/a)		Absolute % Cover	Dominant Species	Indicator Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				
		0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15'R)		Absolute % Cover	Dominant Species	Indicator Status
1.	<i>Cornus racemosa</i>	10	Y	FAC
2.	<i>Lonicera x bella</i>	10	Y	FACU
3.				
4.				
5.				
6.				
7.				
		20	= Total Cover	

Herb Stratum (Plot size: 5'R)		Absolute % Cover	Dominant Species	Indicator Status
1.	<i>Poa pratensis</i>	60	Y	FAC
2.	<i>Daucus carota</i>	60	Y	UPL
3.	<i>Solidago canadensis</i>	50	Y	FACU
4.	<i>Trifolium hybridum</i>	10	N	FAC
5.	<i>Symphotrichum novae-angliae</i>	5	N	FACW
6.	<i>Cichorium intybus</i>	5	N	FACU
7.	<i>Fraxinus pennsylvanica</i>	5	N	FACW
8.	<i>Erigeron annuus</i>	2	N	FACU
9.				
10.				
11.				
12.				
13.				
14.				
		197	= Total Cover	

Woody Vine Stratum (Plot size: n/a)		Absolute % Cover	Dominant Species	Indicator Status
1.				
2.				
3.				
4.				
		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: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 40% (A/B)

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 =

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 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 *X No

*Vegetation is met but does not pass PI and data point lacks hydric soil and wetland hydrology. *Poa pratensis*, a FAC species, is more indicative of uplands in this circumstance.

SOIL

Sampling Point: **T-4 DP-7 (upl)****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 3/1	100	-				silty clay	
3-10	10YR 4/3	100	-				silty clay	
10-20	10YR 4/3	95	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 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)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<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): **n/a**Hydric Soil Present? Yes _____ No **X**Remarks: **The hydric soil criterion is not met.**

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 _____ No **X** Depth (inches): _____
Water Table Present? Yes _____ No **X** Depth (inches): _____
Saturation Present? Yes _____ No **X** Depth (inches): _____
(includes capillary fringe)Wetland Hydrology Present? Yes _____ No **X**

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

WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS tableRemarks: **No wetland hydrology indicators present.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: **Southbrook Church** City/County: **Franklin, Milwaukee** Sampling Date: **July 24, 2012**
 Applicant/Owner: **Southbrook Church** State: **WI** Sampling Point: **T-4 DP-8 (wtd)**
 Investigator(s): **Heather Patti & Tina Myers** Section, Township, Range: **NE 1/4 Sec 18, T5N, R21E**
 Landform (hillslope, terrace, etc.): **depression** Local relief (concave, convex, none): **slightly concave**
 Slope (%): **0%** Lat: **See Figure 2** Long: **See Figure 2** Datum: **See Figure 2**
 Soil Map Unit Name: **Ashkum silty clay loam (AsA), 0-3% slopes** 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 **No** Soil **No** or Hydrology **No** significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation **No** Soil ****Yes** or Hydrology ****Yes** 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="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	If yes, optional wetland site ID:	W-2	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Remarks: *4-6 inches below average precipitation - drought conditions **Problem soil - Mollisol ** depressional wetland with seasonal wetland hydrology		

VEGETATION - Use scientific names for plants.

Sampling Point: **T-4 DP-8 (wtd)**

Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
1. <i>Populus deltoides</i>	50	Y	FAC	
2. <i>Fraxinus pennsylvanica</i>	10	N	FACW	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	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 = _____
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	60	= Total Cover		
Sapling/Shrub Stratum (Plot size: 15'R)				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation 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. <i>Salix interior</i>	40	Y	FACW	
2. <i>Salix discolor</i>	10	N	FACW	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	50	= Total Cover		
Herb Stratum (Plot size: 5'R)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
1. <i>Phalaris arundinacea</i>	50	Y	FACW	
2. <i>Poa palustris</i>	40	Y	FACW	
3. <i>Apocynum cannabinum</i>	40	Y	FAC	
4. <i>Lycopus americanus</i>	5	N	OBL	
5. <i>Carex vulpinoidea</i>	3	N	OBL	
6. <i>Symphotrichum puniceum</i>	3	N	OBL	
7. <i>Daucus carota</i>	2	N	UPL	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	143	= Total Cover		
Woody Vine Stratum (Plot size: n/a)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	0	= Total Cover		

Remarks: (Include photo numbers here or on a separate sheet.)
The hydrophytic vegetation criterion is met. Plant community is a shrub carr wetland.

Sampling Point: **T-4 DP-8 (wtd)**

HYDROLOGY

Midwest Region - Version 2.0

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-5 DP-9 (upl)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Blount silt loam (BIA), 1-3% slopes 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 **Yes Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil **Yes or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </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>
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>	If yes, optional wetland site ID:	<u> </u>	

Remarks: ***4-6 inches below average precipitation - drought conditions**
****Mowed grass **Soil has dark surface horizon, but vegetation and landscape position are indicative of uplands.**

VEGETATION - Use scientific names for plants.

Sampling Point: T-5 DP-9 (upl)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>0</u> = Total Cover			

Sapling/Shrub Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>0</u> = Total Cover			

Herb Stratum (Plot size: <u>5'R</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u>Poa pratensis</u>	<u>100</u>	<u>Y</u>	<u>FAC</u>
2. <u>Plantago major</u>	<u>10</u>	<u>N</u>	<u>FAC</u>
3. <u>Taraxacum officinale</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u>Elytrigia repens</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
5. <u>Trifolium repens</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>
<u>135</u> = Total Cover			

Woody Vine Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u> = 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% (A/B)

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>110</u>	x 3 =	<u>330</u>
FACU species	<u>25</u>	x 4 =	<u>100</u>
UPL species	<u>0</u>	x 5 =	<u>0</u>
Column Totals:	<u>135</u>	(A)	<u>430</u> (B)

Prevalence Index B/A = 3.2

Hydrophytic Vegetation Indicators:

X Rapid Test for Hydrophytic Vegetation
 Dominance Test is >50%
 Prevalence Index is ≤ 3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on 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 X No

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

This is a manicured area - mowed lawn. *Poa pratensis* is planted and this area lacks hydric soil and wetland hydrology.

SOIL

Sampling Point: **T-5 DP-9 (upl)**

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	-				silty clay	
10-12	10YR 3/2	95	10YR 5/8	5	C	M	silty clay	
12-20	10YR 5/3	95	10YR 5/8	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 Much (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)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<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): n/aHydric Soil Present? Yes ☐ No ☒Remarks: **Soils are borderline hydric but are not quite met.**

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 ☐ No ☒ Depth (inches):
Water Table Present? Yes ☐ No ☒ Depth (inches):
Saturation Present? Yes ☐ No ☒ Depth (inches):
(includes capillary fringe)Wetland Hydrology Present? Yes ☐ No ☒

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

WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS tableRemarks: **No wetland hydrology indicators present.**

Project/Site: Southbrook Church			City/County: Franklin, Milwaukee			Sampling Date: July 24, 2012		
Applicant/Owner: Southbrook Church			State: WI			Sampling Point: T-5 DP-10 (wtd)		
Investigator(s): Heather Patti & Tina Myers			Section, Township, Range: NE 1/4 Sec 18, T5N, R21E					
Landform (hillslope, terrace, etc.): depression			Local relief (concave, convex, none): slightly concave					
Slope (%): 0%		Lat: See Figure 2		Long: See Figure 2		Datum: See Figure 2		
Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes						WWI Classification: E2K		
Are climatic / hydrologic conditions on the site typical for this time of year?						Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X (if no, explain in Remarks)		
Are Vegetation	No	Soil	No	or Hydrology	No	Are "Normal Circumstances" present? Yes <input checked="" type="checkbox"/> X No <input type="checkbox"/>		
Are Vegetation	No	Soil	**Yes	or Hydrology	**Yes	(if needed, explain any answers in Remarks)		

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>		If yes, optional wetland site ID:	<u> W-3 </u>
Remarks: *4-6 inches below average precipitation - drought conditions **Problem soil - Mollisol ** This is a depressional area with seasonal wetland hydrology.					

Sampling Point: **T-5 DP-10 (wtd)**

Tree Stratum (Plot size: 30'R)	Absolute % Cover	Dominant Species	Indicator Status
1. <i>Fraxinus pennsylvanica</i>	20	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
	20	= Total Cover	

Sapling/Shrub Stratum (Plot size: n/a)	Absolute % Cover	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0	= Total Cover	

Herb Stratum (Plot size: 5'R)	Absolute % Cover	Dominant Species	Indicator Status
1. <i>Carex stricta</i>	60	Y	OBL
2. <i>Phalaris arundinacea</i>	40	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
	100	= Total Cover	

Woody Vine Stratum (Plot size: n/a)	Absolute % Cover	Dominant Species	Indicator Status
1.			
2.			
3.			
4.			
	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:

Total % Cover of:	Multiply by:
OBL species	<u>1</u> x 1 = <u>2</u>
FACW species	<u>1</u> x 2 = <u>2</u>
FAC species	<u>1</u> x 3 = <u>3</u>
FACU species	<u>1</u> x 4 = <u>4</u>
UPL species	<u>1</u> x 5 = <u>5</u>
Column Totals:	<u>10</u> (A) <u>10</u> (B)

Prevalence Index B/A = 1.0

Hydrophytic Vegetation Indicators:

X Rapid Test for Hydrophytic Vegetation

 Dominance Test is >50%

 Prevalence Index is ≤ 3.0¹

 Morphological Adaptations¹ (Provide supporting data in Remarks or on 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 X No

US Army Corps of Engineers

Midwest Region - Version 2.0

SOIL

Sampling Point: **T-5 DP-10 (wtd)****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		
0-17	10YR 2/1	90	10YR 5/6	5	C	M	silty clay	
			10YR 3/4	5	C	M	silty clay	
17-20	10YR 5/1	90	10YR 5/8	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:**

<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 Much (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)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<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): n/aHydric Soil Present? Yes X No

Remarks:

The hydric soil criterion is met.

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

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

WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS tableRemarks: **Depressional area with seasonal wetland hydrology, but secondary hydrological indicators are present.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-6 DP-11 (upl)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): 2-3% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: none mapped
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation **Yes Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil Yes or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	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>X</u> No <u> </u>	If yes, optional wetland site ID:	<u>n/a</u>
Wetland Hydrology Present?	Yes <u> </u> No <u>X</u>		

Remarks: ***4-6 inches below average precipitation - drought conditions**
****Mowed grass **Soil contains hydric characteristics and are problematic (Mollisol), but veg./ landscape position are indicative of uplands.**

VEGETATION - Use scientific names for plants.

Sampling Point: T-6 DP-11 (upl)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
0 = Total Cover			

Sapling/Shrub Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
0 = Total Cover			

Herb Stratum (Plot size: <u>5'R</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u>Poa pratensis</u>	<u>100</u>	<u>Y</u>	<u>FAC</u>
2. <u>Trifolium repens</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>
3. <u>Taraxacum officinale</u>	<u>10</u>	<u>N</u>	<u>FACU</u>
4. <u>Plantago major</u>	<u>5</u>	<u>N</u>	<u>FAC</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
155 = Total Cover			

Woody Vine Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
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: 2 (B)

 Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index Worksheet:
 Total % Cover of: _____ Multiply by: _____
 OBL species 0 x 1 = 0
 FACW species 0 x 2 = 0
 FAC species 105 x 3 = 315
 FACU species 50 x 4 = 200
 UPL species 0 x 5 = 0
 Column Totals: 155 (A) 515 (B)

 Prevalence Index B/A = 3.3

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 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 *X

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

The hydrophytic vegetation criterion is not met. This data point does not pass PI or exhibit morphological adaptations.

Sampling Point: T-6 DP-11 (uPl)

[illegible]

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	
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 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: 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)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table				
Remarks: No wetland hydrology indicators present.				

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-6 DP-12 (wtd)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Ashkum silty clay loam (AsA), 0-3% slopes WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil **Yes or Hydrology **Yes 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> If yes, optional wetland site ID: <u>W-3</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: <u>*4-6 inches below average precipitation - drought conditions</u> <u>**Problem soil - Mollisol ** This is a depressional wetland with seasonal wetland hydrology.</u>			

VEGETATION - Use scientific names for plants.

Sampling Point: T-6 DP-12 (wtd)

Tree Stratum (Plot size: <u>30'R</u>)	Absolute % Cover	Dominant Species	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</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>100%</u> (A/B) 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 = _____ Hydrophytic Vegetation Indicators: <u>X</u> Rapid Test for Hydrophytic Vegetation 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 <u>X</u> No <u> </u>
1. <u>Populus tremuloides</u>	<u>30</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>30</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'R</u>)				
1. <u>Populus tremuloides</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	<u>10</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'R</u>)				
1. <u>Carex stricta</u>	<u>60</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Phalaris arundinacea</u>	<u>50</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	<u>110</u>	= Total Cover		
Woody Vine Stratum (Plot size: <u>n/a</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	<u>0</u>	= Total Cover		

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

The hydrophytic vegetation criterion is met. This is within a fresh wet/sedge meadow community.

SOIL

Sampling Point: **T-6 DP-12 (wtd)****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 2/1	90	10YR 5/6 &	5	C	M	silty clay	
			10YR 3/4	5	C	M	silty clay	
15-20	10YR 5/1	90	10YR 5/8	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:**

<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 Much (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)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<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): n/a

Hydric Soil Present? Yes X No

Remarks: **The hydric soil criterion is met. This is a problem soil - mollisol.**

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> </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:

WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS table

Remarks: **This is a depressional wetland with seasonal wetland hydrology, but secondary hydrological indicators are present.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-7 DP-13 (upl)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex
 Slope (%): ~5% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Houghton muck (Ht), 0-2% slopes 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 **Yes Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil No or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	Yes <u>X</u>	No <u> </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>	If yes, optional wetland site ID:	<u>n/a</u>	
Wetland Hydrology Present?	Yes <u> </u>	No <u>X</u>			
Remarks: <u>*4-6 inches below average precipitation - drought conditions</u> <u>**Mowed lawn</u>					

VEGETATION - Use scientific names for plants.

Sampling Point: T-7 DP-13 (upl)

Tree Stratum (Plot size: <u>30'R</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>Y</u>	<u>FACW</u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u>10</u> = Total Cover		

Sapling/Shrub Stratum (Plot size: <u>N/A</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u>0</u> = Total Cover		

Herb Stratum (Plot size: <u>5'R</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u>Poa pratensis</u>	<u>60</u>	<u>Y</u>	<u>FAC</u>
2. <u>Taraxacum officinale</u>	<u>40</u>	<u>Y</u>	<u>FACU</u>
3. <u>Trifolium repens</u>	<u>25</u>	<u>N</u>	<u>FACU</u>
4. <u>Plantago major</u>	<u>15</u>	<u>N</u>	<u>FAC</u>
5. <u>Glechoma hederacea</u>	<u>5</u>	<u>N</u>	<u>FACU</u>
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u>145</u> = Total Cover		

Woody Vine Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>
	<u>0</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: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 67% (A/B)

Prevalence Index Worksheet:

Total % Cover of:		Multiply by:
OBL species	<u>0</u>	x 1 = <u>0</u>
FACW species	<u>10</u>	x 2 = <u>20</u>
FAC species	<u>75</u>	x 3 = <u>225</u>
FACU species	<u>70</u>	x 4 = <u>280</u>
UPL species	<u>0</u>	x 5 = <u>0</u>
Column Totals:	<u>155</u> (A)	<u>525</u> (B)

Prevalence Index B/A = 3.4

Hydrophytic Vegetation Indicators:

X Rapid Test for Hydrophytic Vegetation
 Dominance Test is >50%
 Prevalence Index is ≤ 3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on 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 X No

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

The hydrophytic vegetation criterion is met due to the dominance of *Poa pratensis*. *Poa pratensis* is more reflective of uplands in this circumstance.

Sampling Point: T-7 DP-13 (upl)

[illegible]

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: 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)			Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table					
Remarks: No wetland hydrology indicators present.					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012
 Applicant/Owner: Southbrook Church State: WI Sampling Point: T-7 DP-14 (wtd)
 Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): slightly concave
 Slope (%): 0% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2
 Soil Map Unit Name: Houghton muck (Ht), 0-2% slopes WWI Classification: E2K
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes No *X (if no, explain in Remarks)
 Are Vegetation No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No
 Are Vegetation No Soil **Yes or Hydrology **Yes 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> If yes, optional wetland site ID: <u>W-4</u>
Hydric Soil Present?	Yes <u>X</u>	No <u> </u>	
Wetland Hydrology Present?	Yes <u>X</u>	No <u> </u>	
Remarks: *4-6 inches below average precipitation - drought conditions **Problem soil - Mollisol ** This is a depressional wetland with seasonal wetland hydrology.			

VEGETATION - Use scientific names for plants.

Sampling Point: T-7 DP-14 (wtd)

Tree Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			

Sapling/Shrub Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
<u>0</u> = Total Cover			

Herb Stratum (Plot size: <u>5'R</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. <u>Phalaris arundinacea</u>	<u>100</u>	<u>Y</u>	<u>FACW</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____
13. _____	_____	_____	_____
14. _____	_____	_____	_____
<u>100</u> = Total Cover			

Woody Vine Stratum (Plot size: <u>n/a</u>)	Absolute % Cover	Dominant Species	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
<u>0</u> = 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% (A/B)

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 = _____

Hydrophytic Vegetation Indicators:
X Rapid Test for Hydrophytic Vegetation
X Dominance Test is >50%
 _____ Prevalence Index is ≤ 3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on 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 X No

Remarks: (Include photo numbers here or on a separate sheet.)
The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community.

Sampling Point: T-7 DP-14 (wtd)

[illegible]

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)	
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 checked="" 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="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)				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:					
WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table					
Remarks: The wetland hydrology criterion is met.					

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: Southbrook Church City/County: Franklin, Milwaukee Sampling Date: July 24, 2012

Applicant/Owner: Southbrook Church State: WI Sampling Point: T-8 DP-15 (upl)

Investigator(s): Heather Patti & Tina Myers Section, Township, Range: NE 1/4 Sec 18, T5N, R21E

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex

Slope (%): 3-5% Lat: See Figure 2 Long: See Figure 2 Datum: See Figure 2

Soil Map Unit Name: Blount silt loam (BIA), 1-3% slopes 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 No Soil No or Hydrology No significantly disturbed? Are "Normal Circumstances" present? Yes X No

Are Vegetation No Soil No or Hydrology No naturally problematic? (if needed, explain any answers in Remarks)

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

Hydrophytic Vegetation Present?	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: <u>*4-6 inches below average precipitation - drought conditions</u>			

VEGETATION - Use scientific names for plants.Sampling Point: T-8 DP-15 (upl)

Tree Stratum (Plot size: <u>30'R</u>)	Absolute % Cover	Dominant Species	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>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>25%</u> (A/B)
1. <u>Juglans nigra</u>	<u>80</u>	<u>Y</u>	<u>FACU</u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	Prevalence Index Worksheet: Total % Cover of: <u> </u> Multiply by: <u> </u> 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>
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u>80</u>	<u> </u>	<u> </u>	
<u>80</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'R</u>)				
1. <u>Rhamnus cathartica</u>	<u>10</u>	<u>Y</u>	<u>FAC</u>	Hydrophytic Vegetation Indicators: <u> </u> Rapid Test for Hydrophytic Vegetation <u> </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)
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
5. <u> </u>	<u> </u>	<u> </u>	<u> </u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>10</u> = Total Cover				
Herb Stratum (Plot size: <u>5'R</u>)				
1. <u>Festuca pratensis</u>	<u>95</u>	<u>Y</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes <u> </u> No <u>X</u>
2. <u>Aster sagittifolius</u>	<u>40</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Poa pratensis</u>	<u>20</u>	<u>N</u>	<u>FAC</u>	
4. <u>Geum canadense</u>	<u>10</u>	<u>N</u>	<u>FAC</u>	
5. <u>Hackelia virginiana</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
6. <u>Erigeron annuus</u>	<u>5</u>	<u>N</u>	<u>FACU</u>	
7. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
8. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
9. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
10. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
11. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
12. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
13. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
14. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>175</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>n/a</u>)				
1. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
2. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
3. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
4. <u> </u>	<u> </u>	<u> </u>	<u> </u>	
<u>0</u> = Total Cover				

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

The hydrophytic vegetation criterion is not met. This data point is located within a black walnut grove adjacent to the wetland.

SOIL

Sampling Point: **T-8 DP-15 (upl)****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 3/2	100	-				silty clay	disturbed soil - sandy loam with
18-20	2.5Y 7/2	100	-				sandy loam	gravel fragments

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 Much (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)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<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): n/a

Hydric Soil Present? Yes ☐ No ☒

Remarks: **The hydric soil criterion is not met. This is a disturbed soil - sandy loam with gravel fragments present in the lower 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)
<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 ☐ No ☒ Depth (inches): _____
Water Table Present? Yes ☐ No ☒ Depth (inches): _____
Saturation Present? Yes ☐ No ☒ Depth (inches): _____
(includes capillary fringe)

Wetland Hydrology Present? Yes ☐ No ☒

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

WWI Map, NRCS Soils Map, aeriels, AHPS Precipitation data, Milwaukee County WETS table

Remarks: **No wetland hydrology indicators present.**

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site: **Southbrook Church** City/County: **Franklin, Milwaukee** Sampling Date: **July 24, 2012**
 Applicant/Owner: **Southbrook Church** State: **WI** Sampling Point: **T-8 DP-16 (wtd)**
 Investigator(s): **Heather Patti & Tina Myers** Section, Township, Range: **NE 1/4 Sec 18, T5N, R21E**
 Landform (hillslope, terrace, etc.): **depression** Local relief (concave, convex, none): **concave**
 Slope (%): **0%** Lat: **See Figure 2** Long: **See Figure 2** Datum: **See Figure 2**
 Soil Map Unit Name: **Houghton muck (Ht), 0-2% slopes** WWI Classification: **E2K**
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ *X (if no, explain in Remarks)
 Are Vegetation **No** Soil **No** or Hydrology **No** significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No ☐
 Are Vegetation **No** Soil ****Yes** or Hydrology ****Yes** 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="checkbox"/> X	No <input type="checkbox"/>	Is the Sampled Area within a Wetland?	Yes <input checked="" type="checkbox"/> X	No <input type="checkbox"/>
Hydric Soil Present?	Yes <input checked="" type="checkbox"/> X	No <input type="checkbox"/>	If yes, optional wetland site ID:	W-4	
Wetland Hydrology Present?	Yes <input checked="" type="checkbox"/> X	No <input type="checkbox"/>			

Remarks: ***4-6 inches below average precipitation - drought conditions**
****Problem soil - Mollisol ** This is a depressional wetland with seasonal wetland hydrology.**

VEGETATION - Use scientific names for plants.

Sampling Point: **T-8 DP-16 (wtd)**

Tree Stratum (Plot size: n/a)	Absolute % Cover	Dominant Species	Indicator Status	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% (A/B) 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 = _____ Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> X Rapid Test for Hydrophytic Vegetation _____ 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 <input checked="" type="checkbox"/> X No <input type="checkbox"/>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 = Total Cover				
Sapling/Shrub Stratum (Plot size: n/a)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
0 = Total Cover				
Herb Stratum (Plot size: 5'R)				
1. Phalaris arundinacea	100	Y	FACW	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
13. _____	_____	_____	_____	
14. _____	_____	_____	_____	
100 = Total Cover				
Woody Vine Stratum (Plot size: n/a)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
0 = Total Cover				

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

The hydrophytic vegetation criterion is met. This is a fresh (wet) meadow plant community - monotypic reed canary grass.

SOIL

Sampling Point: **T-8 DP-16 (wtd)****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	10YR 5/8	2	C	PL	silty clay	oxidized roots at 3"
18-22	10YR 5/1	90	10YR 5/8	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:**

<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 Much (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)

Indicators for Problematic Hydric Soils³:

<input type="checkbox"/> Coast Prairie Redox (A16) (LRR,K,L,R)
<input type="checkbox"/> Dark Surface (S7) (LRR,K,L)
<input type="checkbox"/> 5 cm mucky peat or peat (S3) (LRR,K,L)
<input type="checkbox"/> Iron-Manganese Masses (F12) (LRR,K,L,R)
<input type="checkbox"/> Very Shallow Dark Surface (TF12)
<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): n/aHydric Soil Present? Yes X No Remarks: **The hydric soil criterion is met. This is a problem soil - mollisol.**

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

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

WWI Map, NRCS Soils Map, aerials, AHPS Precipitation data, Milwaukee County WETS tableRemarks: **The wetland hydrology criterion is met.**

CONSTRUCTION SITE EROSION CONTROL

1. CONTRACTOR IS RESPONSIBLE TO NOTIFY ENGINEER OF RECORD AND APPROPRIATE OFFICIALS OF ANY CHANGES TO THE EROSION CONTROL AND STORMWATER MANAGEMENT PLANS. ENGINEER OF RECORD AND APPROPRIATE CITY OF FRANKLIN OFFICIALS MUST APPROVE ANY CHANGES PRIOR TO DEVIATION FROM THE APPROVED PLANS.

2. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED BY THE CONTRACTOR IN ACCORDANCE WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES (WDNR) TECHNICAL STANDARDS (REFERRED TO AS BMP'S) AND THE CITY OF FRANKLIN ORDINANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COPY OF THESE STANDARDS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL EROSION CONTROL MEASURES WHICH MAY BE NECESSARY TO MEET UNFORESEEN FIELD CONDITIONS.

3. MODIFICATIONS TO THE APPROVED EROSION CONTROL DESIGN IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS IS ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL DESIGN MODIFICATIONS MUST BE APPROVED BY THE CITY OF FRANKLIN PRIOR TO DEVIATION OF THE APPROVED PLAN.

4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED BY STATE INSPECTORS, LOCAL INSPECTORS, COUNTY INSPECTORS AND/OR ENGINEER OF RECORD SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.

5. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN IN ORDER TO PROTECT ADJACENT PROPERTIES/STORM SEWER SYSTEMS FROM SEDIMENT TRANSPORT.

6. A CONSTRUCTION ENTRANCE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1057 SHALL BE INSTALLED AT THE LOCATION OF VEHICLE INGRESS/EGRESS. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION WITH THE PROPER AUTHORITIES, PROVIDE NECESSARY FEES, AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS.

7. INLET PROTECTION IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1060 SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND AT ALL INSTALLED CULVERT INLETS TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS.

8. DITCH CHECKS AND APPLICABLE EROSION NETTING/MATTING SHALL BE INSTALLED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1053 & 1062 IMMEDIATELY AFTER COMPLETION OF GRADING EFFORTS WITHIN DITCHES/SWALES TO PREVENT SOIL TRANSPORTATION.

9. CONTRACTOR SHALL INSTALL SILT FENCING AT DOWNSLOPE SIDE OF STOCKPILES IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1056.

10. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 7 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1059 AND CITY OF FRANKLIN ORDINANCE.

11. IF TOPSOIL STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES IS REQUIRED. IF DISTURBANCE OCCURS BETWEEN NOVEMBER 15TH AND MAY 15TH, THE MULCHING SHALL BE PERFORMED BY HYDRO-MULCHING WITH A "TACKIFIER."

12. ALL DISTURBED SLOPES EXCEEDING 5:1, SHALL BE STABILIZED WITH CLASS I TYPE B EROSION MATTING OR APPLICATION OF A WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES AND WDNR TECHNICAL STANDARDS 1052 AND 1053.
13. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING WIND EROSION (DUST) DURING CONSTRUCTION AT HIS/HER EXPENSE, WHEN NECESSARY OR REQUIRED BY LOCAL INSPECTORS AND/OR ENGINEER OF RECORD.

14. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.)
 - A. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
 - B. BACKFILL, COMPACT AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
 - C. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH BMP'S PRIOR TO RELEASE INTO THE STORM SEWER, RECEIVING STREAM OR DRAINAGE DITCH.

15. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEEP AND/OR SCRAPPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST AFTER THE END OF EACH WORK DAY AND AS REQUESTED BY THE CITY OF FRANKLIN.

16. INSPECTIONS AND MAINTENANCE OF ALL EROSION CONTROL MEASURES SHALL BE ROUTINE (ONCE PER WEEK MINIMUM) TO ENSURE PROPER FUNCTION OF EROSION CONTROLS AT ALL TIMES. EROSION CONTROL MEASURES ARE TO BE IN WORKING ORDER AT THE END OF EACH WORK DAY.

17. ALL EROSION AND SEDIMENT CONTROL ITEMS SHALL BE INSPECTED WITHIN 24 HOURS OF ALL RAIN EVENTS EXCEEDING 0.5 INCHES. IMMEDIATELY REPAIR ANY DAMAGE OBSERVED DURING THE INSPECTION.

18. EROSION CONTROL MEASURES SHALL BE REMOVED ONLY AFTER SITE CONSTRUCTION IS COMPLETE WITH ALL SOIL SURFACES HAVING AN ESTABLISHED VEGETATIVE COVER.

GRADING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY THE FOLLOWING:
 - A. ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK.
 - B. LOCATION AND ELEVATION OF:
 - i. EXISTING PIPE INVERTS
 - ii. FLOOR ELEVATIONS
 - iii. CURB OR PAVEMENT WHERE MATCHING INTO EXISTING WORK
 - iv. HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES

NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.

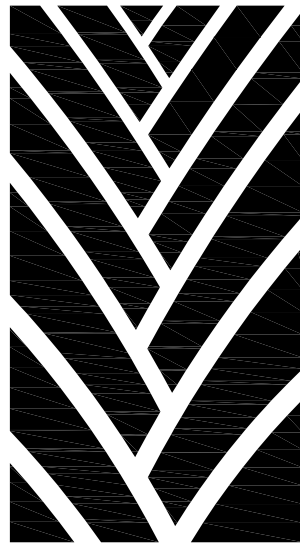
2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL AND BE SEEDED, MULCHED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

3. THIS GRADING PLAN IS BASED ON AN TOPOGRAPHIC SURVEY BY JSD PROFESSIONAL SERVICES. SOME FIELD ADJUSTMENTS MAY BE NECESSARY AT POINTS WHERE PROPOSED GRADES MEET EXISTING. REVIEW ANY REQUIRED CHANGES WITH THE ENGINEER PRIOR TO CONSTRUCTION OF WORK.

4. PROPERTY CORNERS SHALL BE CAREFULLY PROTECTED. MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

5. PROPOSED CONTOURS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY. ALL CONSTRUCTION SHALL BE BASED UPON PROPOSED SPOT ELEVATIONS WHERE PROVIDED.

6. STORM SEWER SPECIFICATIONS
 - A. PIPE – ALL PIPE MATERIAL BENEATH STREET PAVEMENT SHALL BE REINFORCED CONCRETE PIPE. STORM SEWER OUTSIDE OF RIGHT-OF-WAY SHALL BE HIGH DENSITY POLYETHYLENE. REFER TO FOLLOWING SPECIFICATIONS:
 - i. REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM C-76, CLASS III (MINIMUM) WITH RUBBER GASKET JOINTS ASTM C-443.
 - ii. HIGH DENSITY POLYETHYLENE SMOOTH-WALLED INTERIOR CORRUGATED PIPE SHALL BE AS MANUFACTURED BY ADS OR EQUAL, WITH WATER TIGHT JOINTS, MANNING "N" VALUE OF 0.010 AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M-294 TYPE S. MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D3350, D2412, AND D3231 WITH ELASTOMERIC GASKETS CONFORMING TO ASTM F477.
 - B. INLETS AND FRAMES
 - i. INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF WISCONSIN ADMINISTRATIVE CODE SPS 382.36(9)8.3.
 - ii. FRAMES AND GRATES SHALL BE GRAY IRON MATERIAL (PER ASTM A-48) OF STYLES / CATALOG NUMBERS AS INDICATED ON THESE CONSTRUCTION DRAWINGS.
 - C. MANHOLES AND FRAMES
 - i. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF WISCONSIN ADMINISTRATIVE CODE SPS 382.35(6)a.
 - ii. FRAMES AND LIDS SHALL BE GRAY IRON MATERIAL (PER ASTM A-48) OF STYLES/CATALOG NUMBERS AS INDICATED ON THESE CONSTRUCTION DRAWINGS. INTERNAL CHIMNEY SEALS SHALL BE CRETEX SPECIALTY PRODUCTS, OR EQUAL.
 - D. CLEANOUTS – CLEANOUTS SHALL BE EQUIPPED WITH FROST SLEEVES IN ACCORDANCE WITH SPS 382.35(5)(A)2. (REFER TO DETAIL)
 - E. BACKFILL AND BEDDING – STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS B BEDDING AREAS TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL AND CLASS B BEDDING. LANDSCAPED AREAS MAY BE CLASS C BEDDING WITH COMPACTED SPOT BACKFILL CONFORMING TO SECTION 643.5 OF THE "STANDARD SPECIFICATIONS."
 - F. RIP-RAP – AT ALL INLETS AND OUTLET FLARED END SECTIONS A 3' X 5' AREA OF MEDIUM RIP-RAP OVER TYPE R FABRIC PER WISDOT SPECIFICATION, SHALL BE INSTALLED.
 - G. FIELD TILE CONNECTION – ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PROFILES. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER AND SHALL BE INSPECTED BY THE CITY OF FRANKLIN PRIOR TO BACKFILLING.
 - H. SILT STONE PAD (2'X3' ON TYPE R FILTER FABRIC) SHALL BE INSTALLED AT ALL DOWNSPOUTS.



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PROJECT

ADDITIONS AND
ALTERATIONS TO:

SOUTHBROOK
CHURCH

11010 ST. MARTINS
ROAD
FRANKLIN, WI 53132

ISSUE

NO.	REV. DATE	DESCRIPTION
1	09-04-2015	REVISION FOR CITY COMMENTS
2	09-13-2015	BD & PERMIT SET
3	09-09-2015	ADDENDUM NO. 1
4	09-04-2015	ADDENDUM NO. 2
5	09-10-2015	ADDED WETLAND PROTECTION

PROJECT INFO

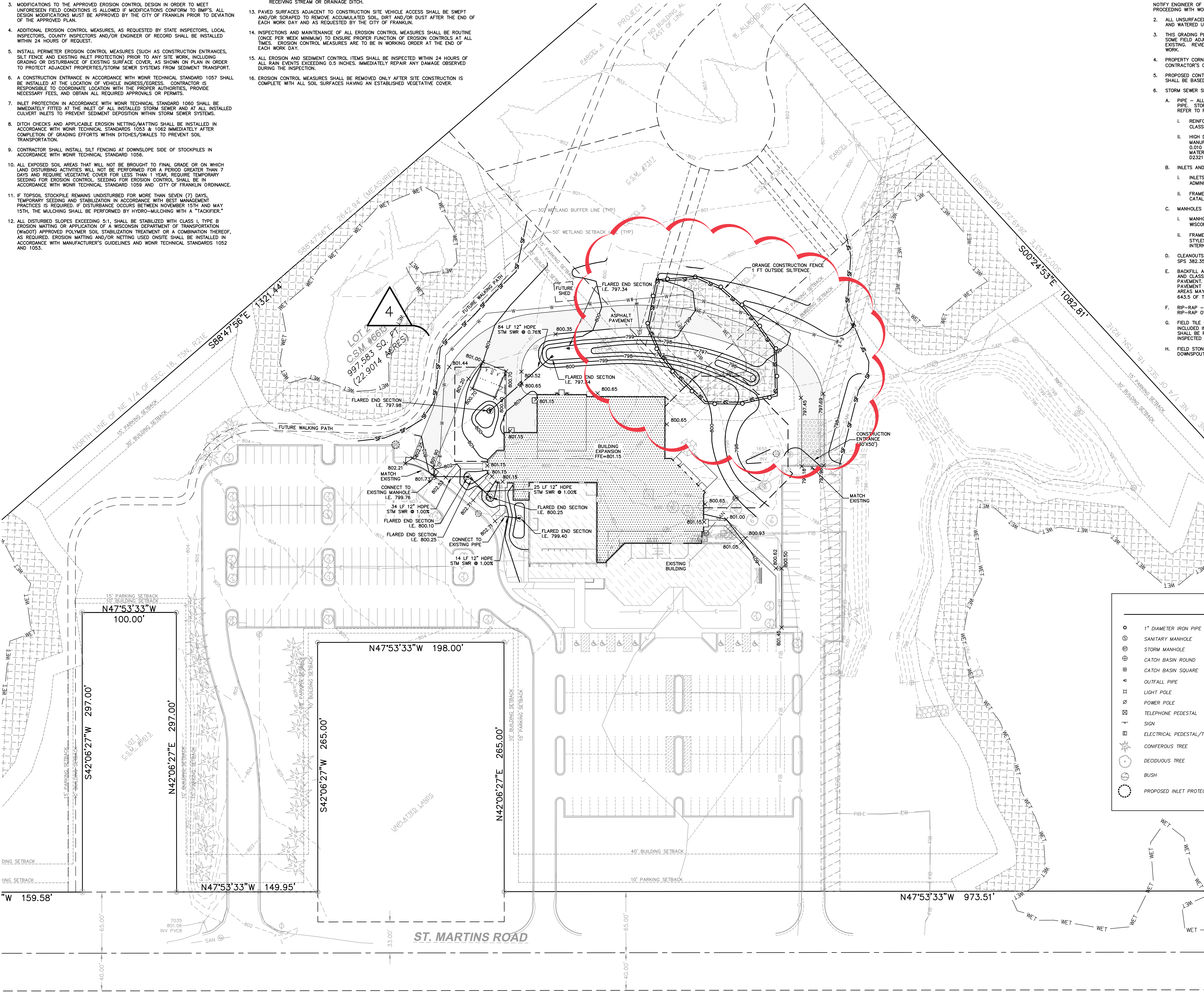
Date:
01-23-15
Project No.:
140C614
Drawn By: CAP
Author:

SHEET TITLE

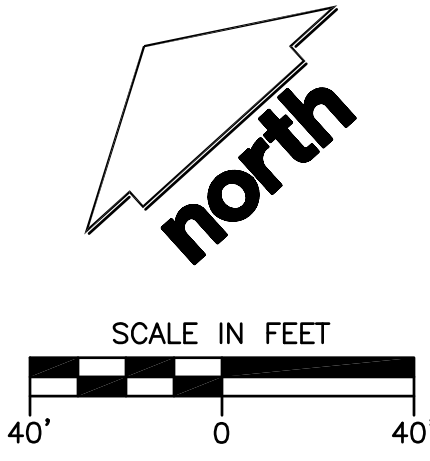
GRADING AND EROSION
CONTROL PLAN

C2.0

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LEGEND	
○	1" DIAMETER IRON PIPE FOUND (IPF)
⊙	SANITARY MANHOLE
⊕	STORM MANHOLE
⊗	CATCH BASIN ROUND
⊞	CATCH BASIN SQUARE
⊘	OUTFALL PIPE
⊙	LIGHT POLE
⊙	POWER POLE
⊙	TELEPHONE PEDESTAL
⊙	SIGN
⊙	ELECTRICAL PEDESTAL/TRANSFORMER
⊙	CONIFEROUS TREE
⊙	DECIDUOUS TREE
⊙	BUSH
⊙	PROPOSED INLET PROTECTION
---	EASEMENT LINE
---	SETBACKLINE
---	EXTERIOR PROPERTY LINE
---	ADJACENT LOT LINE
---	WATER MAIN
---	SANITARY SEWER
---	STORM SEWER
---	FIBER OPTIC
---	UNDERGROUND TELEPHONE
---	UNDERGROUND ELECTRIC
---	RIP RAP
⊕	PROPOSED STORM INLET
ST	PROPOSED STORM SEWER
723	PROPOSED 1" CONTOUR
725	PROPOSED 5' CONTOUR
SF	SILT FENCE
X X	SAWCUT





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PROJECT

ADDITIONS AND
ALTERATIONS TO:

SOUTHBROOK
CHURCH

11010 ST. MARTINS
ROAD
FRANKLIN, WI 53132

ISSUE

NO. REV. DATE DESCRIPTION

PROJECT INFO

Date
01-23-15
Project No.
14C6614
Drawn By: CAP
Author

SHEET TITLE

NATURAL RESOURCES
PROTECTION PLAN

NR-1

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Natural Resource Feature	Protection Standard Based Upon Zoning District Type (circle applicable standard from Table 15-4.0100 for the type of zoning district in which the parcel is located)			Acres of Land in Resource Feature	Acres of Land Required to be Preserved	Acres of Land to be Impacted	Acres of Land Required to be Mitigated	Acres of Land to be Mitigated
	Agricultural District	Residential District	Non- Residential District					
Steep Slopes 10-19%	0	0.6	0.4	X	0.00	0.00	0.00	N/A
20-30%	0.65	0.75	0.7	X	0.00	0.00	0.00	N/A
30% +	0.9	0.85	0.8	X	0.00	0.00	0.00	N/A
Woodlands & Forests								
Mature	0.7	0.7	0.7	X	2.38	1.66	0.34	0.00
Young	0.5	0.5	0.5	X	0.00	0.00	0.00	N/A
Lakes & Ponds	1	1	1	X	0.00	0.00	0.00	N/A
Streams	1	1	1	X	0.00	0.00	0.00	N/A
Shore Buffer	1	1	1	X	0.00	0.00	0.00	N/A
Floodplains/Floodlands	1	1	1	X	0.00	0.00	0.00	N/A
Wetland Buffers	1	1	1	X	2.27	2.27	0.26	0.00
Wetlands & Shoreland Wetlands	1	1	1	X	4.78	4.78	0.06	0.00
Wetland Setback	1	1	1	X	0.00	0.00	0.00	N/A
TOTAL RESOURCE PROTECTION LAND (Total of Acres of Land in Resource Required to be Protected)				= 8.7075 Acres				



LEGEND

	WETLAND		WETLAND BUFFER DISTURBANCE
	WETLAND BUFFER		WETLAND SETBACK DISTURBANCE
	WETLAND SETBACK		WOODLAND (MATURE) DISTURBANCE
	WOODLAND (MATURE)		

1. DEVELOPMENT NAME: SOUTHBROOK CHURCH
2. LOCATION: 11010 ST. MARTINS ROAD
FRANKLIN, WISCONSIN
3. OWNER/
DEVELOPER: SOUTHBROOK CHURCH
6455 SOUTH 108TH ST
FRANKLIN, WI 53132
4. ARCHITECT: GROTH DESIGN GROUP
N58 W6181 COLUMBIA ROAD
CEDARBURG, WI 53012
5. WETLANDS PER 2012 WETLAND DELINEATION BY
R.A. SMITH NATIONAL
6. REFER TO CERTIFIED SURVEY MAP FOR PROPOSED
EASEMENTS.

