Wetland Delineation Report



29.3-Acre Site SE of STH 59 & CTH X

City of Waukesha, Waukesha County, Wisconsin

RASN Project No. 1150426

August 12th, 2015

Prepared by:

Prepared for:

Ms. Tina Myers, PWS Ecologist/Project Manager R.A. Smith National, Inc. Mr. Thomas Perez Kapur & Associates, Inc. 7711 North Port Washington Rd. Milwaukee, WI 53217



Table of Contents

Wetland Delineation Report	.1-	9
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Appendices

Appendix 1: Figures

Figure 1: USGS Topographic/Site Location Map

Figure 2: Wetland Boundary Map

Figure 3: WDNR Surface Water Data Viewer Map

Figures 4A-D: Aerial Photographs (2000, 2005, 2007 & 2010)

Figures 5A-C: Advanced Hydrologic Prediction Service 90-day Departure from

Normal Precipitation Maps

Appendix 2: WETS Table Analysis, NRCS WETS Table, & Daily Precipitation Table

Appendix 3: Site Photographs

Appendix 4: Wetland Determination Data Forms – Northcentral/Northeast Region

Appendix 5: NR 151 Wetland Susceptibility Table



August 12th, 2015

INTRODUCTION

R.A. Smith National, Inc. (RASN) is pleased to provide this Wetland Delineation Report for a 29.3-acre Study Area southeast of the STH 59 and CTH X intersection in the City of Waukesha, Waukesha County, Wisconsin (Figure 1). The Study Area is more specifically located in the SE ¼ of Section 17, Township 6 North, Range 19 East. The delineation was completed at the request of Kapur and Associates, Inc.

The purpose of the wetland delineation was to identify the proximity and extent of wetlands for a planned development of the site. Five (5) wetlands, hereby referred to as "W-1" through "W-5", were identified within the Study Area (Figure 2, Appendix 1) by Senior Wetland Scientist Tina Myers on July 9th, 21st, 22nd, and 27th of 2015. Senior Wetland Scientist Heather Patti also assisted on July 27th. The total acreage of wetland within the Study Area is 8.35 acre (363,726 square feet) which is roughly 28 percent of the total site. No waterways were observed within the site, although a slight drainage pattern is visible within W-3. The Fox River lies approximately 250 feet due south and 600 feet due west of the site. A direct connection to the Fox River was observed for W-1, W-2 and W-3; therefore, these wetlands are assumed to be under the jurisdiction of both the WDNR and US Army Corps of Engineers (Corps). The other wetlands may or may not be under the Corps' jurisdiction and may require a determination. The delineation is presented here in terms of qualifications, methodology, results, and conclusions.

STATEMENT OF QUALIFICATIONS

Ms. Tina Myers, PWS with RASN was the technical lead and report author on this delineation project. She has over 15 years of multidisciplinary ecological experience and has been recognized as a Professional Wetland Scientist (PWS) by the Society of Wetland Scientists (SWS) since 2004. She is also recognized as a Certified Wetland Specialist (CWS) in Illinois. Tina earned a Bachelor's degree in Conservation Biology from the University of Milwaukee in 1998 and has taken a multitude of ongoing educational courses including the Corps Wetland Delineation Training which she took in 2006, Regional Supplement and Field Practicum which she took in 2012, Advanced Wetland Delineation Training which she took in 2013, and Critical Methods in Wetland Delineation which she takes annually. She has performed hundreds of wetlands delineations throughout Wisconsin and Illinois and is also experienced in wetland restoration, wetland and waterway permitting, wetland assessment, vegetation surveys including rare species surveys, wildlife surveys, and environmental monitoring.

Ms. Heather Patti, PWS and Ecologist with RASN, earned a Masters Degree in Botany and a minor in Ecology from North Carolina State University. Ms. Patti is experienced with a variety of aspects of wetland delineation, ecological restoration, including wetland, mixed hardwood, and prairie restoration. She provides over 15 years of experience in wetland delineation, assessment, and mitigation. Ms. Patti attended the Basic & Advanced Wetland Delineation course offered by UW-LaCrosse in 2005 & 2013, became a WDNR Assured Wetland Delineator in 2009, and attended the Hydric Soil Identification Course offered by UW-LaCrosse in 2011.

WETLAND DELINEATION METHODOLOGY

The wetland delineation consisted of a review of available maps and information followed by a site visit to document field conditions. The presence and absence of hydrophytic vegetation, wetland hydrology, and hydric soil indicators were documented using methodology defined in the *US Army Corps of Engineers* (USACE) 1987

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 2 / August 12th, 2015

Wetland Delineation Manual, Regional Supplement to the 1987 Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Northcentral/Northeast Supplement) (USACE ERDC, 2012) and Guidance for Submittal of Delineation Reports to the St. Paul District Army Corps of Engineers and the Wisconsin Department of Natural Resources (USACE St. Paul District, 2015). See References section for a complete list of guidance and sources utilized.

Vegetation

At the sample plots, herbaceous, shrub/sapling, tree and vine strata were typically measured using 5-foot, 15-foot and 30-foot radius plots, respectively. When necessary, plot sizes were adjusted to fit the plant community represented. Percent cover was visually estimated within the plots and dominant species were determined by applying the 50/20 rule and/or Prevalence Index. *The National Wetland Plant List: 2013 wetland ratings* (Lichvar, 2013) was used to determine the wetland indicator status of observed vegetation.

Hydrology

The nearest available Natural Resource Conservation Service (NRCS) WETS Table and the National Atmospheric and Oceanic Organization (NOAA) Advanced Hydrologic Prediction Service were analyzed to determine the antecedent hydrologic condition of the Study Area. Inundation, water table and/or saturation were measured at the sample plots, if present. Soil pits were generally left open for at least one hour prior to measurement to allow for the normalization of water level. Primary and secondary indicators of wetland hydrology were investigated and if present were noted on the data sheets.

Soils

At the sample plots, a soil pit was excavated to a depth of at least 20 to 24 inches, where possible. The color and texture of the soil matrix and associated mottling was recorded for each observed soil layer within the pit. The Munsell Soil Color Book was used to determine the color of observed moist soils. The soil was analyzed for hydric soil characteristics and, if met, hydric soil(s) was/were indicated on the data sheets.

Sources Reviewed

The United States Geological Survey (USGS) Topographic Map (Figure 1, Appendix 1), a two-foot contour map (Figure 2, Appendix 1), the WDNR Surface Water Data Viewer Map which includes the NRCS Soil Survey and Wiscons in Wetland Inventory (WWI) (Figure 3, Appendix 1), aerial photos from the years 2000, 2005, 2007 and 2010 (Figures 4A-D, Appendix 1), and NOAA 90-Day Percent of Normal Precipitation Maps prior to each site visit (Figures 5A-C, Appendix 1), were reviewed prior to the wetland delineation in order to gain familiarity with the site's topography, wetland history, soils, and past land uses.

RESULTS

Existing Environmental Mapping

The USGS topographic map shows the general location of the Study Area and shows that the nearest mapped waterway, the Fox River, is approximately 250 due south and 600 feet due east of the Study Area (Figure 1, Appendix 1). As shown on the two-foot contour map (Figure 2), site drainage within the Study Area is easterly with the highest point at the 838-foot contour in the southwestern portion of the Study Area and the lowest point at the 790-foot contour within W-1. The majority of the site is relatively flat to gently rolling except for the westernmost areas where moderately steep grades were encountered.

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 3 / August 12th, 2015

The WDNR Surface Water Data Viewer map (Figure 3) indicates the presence of three mapped wetlands within the Study Area depicted as a green line. All three wetlands are shown as S3/E2K, meaning Scrub Shrub (S) Broad-leaved deciduous (3) / Emergent/Wet Meadow (E); Narrow-leaved Persistent (2), Wet Soil, Palustrine (K). The three mapped wetlands are depicted in the same approximate location as W-1 through W-5, but with some fairly significant discrepancies, especially in the southwest corner of the site where a mix of upland "old-field" vegetation and groundwater slope wetlands were present. The discrepancies between the WWI map and RASN's delineated boundaries are attributed to the level of wetland delineation employed during the investigation. The presence of wetlands and the location of wetland boundaries as determined by examination of aerial photography are not as accurate as physical examination of site conditions using methods outlined in the 1987 Corps annual and its Northcentral/Northeast Supplement.

The NRCS Web Soil Survey indicates the presence of nine mapped soils within the site (Table 1 and Figure 3). As shown on the table, there are three mapped hydric soils and three partially hydric soils within the Study Area.

Table 1. Mapped Soils within Study Area.

Soil Unit Name (Symbol)	Hydric Inclusion	Drainage Class	Percent of Study Area
Aztalan loam, 0-2% slopes (AzA)\$	Navan	Somewhat poorly drained	19.0
Brookston silt loam, 0-3% slopes (BsA) \$†		Poorly drained	36.3
Casco loam, 6-12% slopes, eroded (CeC2)	_	Well drained	7.1
Fox loam, 2-6% slopes (FoB)		Well drained	8.4
Kane silt loam, 1-3% slopes (KeA)\$	Sebewa	Somewhat poorly drained	0.7
Lamartine silt loam, 1-4% slopes (LmB) \$	Pella	Somewhat poorly drained	2.6
Navan silt loam (Na) \$†	-	Poorly drained	13.2
Sebewa silt loam (Sm) \$†		Poorly drained	0.5
Warsaw loam, 2-6% slopes (WeB)	_	Well drained	12.3

^{\$} WDNR Wetland Indicator Soil

Based on a review of aerial photographs from 2000, 2005, 2007, and 2010 (Figures 4A-C), it appears that a large portion of the central part of the site had been previously farmed as shown on the 2000 aerial. It is apparent that plowing and planting in some areas did not occur due to the presence of wetlands. Cessation of farming appears to have occurred sometime between 2000 and 2005 and the areas previously farmed have gradually reverted into a mix of upland "old-field" and scrub shrub communities. The subdivision to the south was also constructed within this same timeframe. The wetland boundaries are somewhat difficult to interpret by aerial photograph interpretation alone for this particular site, although the shallow marsh areas are most apparent. A faint linear tone is observable within the area delineated as W-3 indicating a drainage pattern through this wetland which appears to flow east towards the Fox River.

Antecedent Hydrologic Condition

Based on the WETS Analysis Worksheet in Appendix 2, precipitation was within the normal range for the months of April through June. Additionally, NOAA's Advanced Hydrologic Prediction Service Maps (Figures 5A-C) which analyze precipitation data exactly 90 days prior to the date of each site visit indicate that climatic conditions were considered to be within 75-90% of normal precipitation which is on the dry end of the normal range. According to the Daily Precipitation Table in Appendix 2, there was 0.32 inches of precipitation recorded one week prior to the July 9th site visit. One week prior to the July 21st and 22nd site visits, there was 1.24 inches of precipitation recorded. And finally, no precipitation was recorded within one week prior to the final July 27th site visit. Altogether, there was approximately 2.02 inches recorded throughout the month of July which is considered drier than the normal range for the month of July according to the WETS table. Since conditions appeared to be on the drier end of the normal range and the fieldwork was completed during the normal dry

[†] NRCS Listed Hydric Soil

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 4 / August 12th, 2015

season, soil pits were dug to a depth of at least 24 inches or more in most cases to determine if a dry-season water table was present.

Field Investigation

All areas called out as wetland or containing wetland indicators on the above-mentioned maps were evaluated in the field during the site visit. Photos were taken of W-1 through W-5 along with adjacent upland areas and are included in Appendix 3. A total of thirty (30) sample plots were examined and five (5) wetlands were delineated by RASN (Figure 2). Pink wire flags with the words "Wetland Delineation" were used to mark wetland boundaries. Consecutively numbered orange wire flags were used to mark sample plots along the wetland boundary and other areas examined. RASN subsequently located each wetland boundary and sample plot flags using a Trimble GPS unit with sub-meter accuracy and prepared a wetland boundary map overlaid onto a two-foot contour map and recent aerial basemap. The data sheets were compiled and are included in Appendix 4. The following is a detailed description the delineated wetlands:

Wetland 1 – Fresh (wet) Meadow / Shallow Marsh (Ditch)

As shown on Figure 2 in Appendix 1, W-1 is a 1.02 acre wetland within the Study Area that is part of a larger complex extending off-site towards the east where it connects with the Fox River. It is labeled as S3/E2K on the WWI map. While the larger component of this wetland is fresh (wet) meadow dominated by invasive reed canary grass (*Phalaris arundinacea*), there is a shallow marsh ditch dominated by narrow-leaved cattail (*Typha angustifolia*) that drains east along the south side of STH 59 towards the main body of W-1. This wetland ditch also collects flow from W-2. The immediate adjacent upland consists of mixed old-field and scrub shrub plant communities which have developed since the cessation of farming. The dominant species observed throughout the uplands adjacent to W-1 as well as throughout much of the previously farmed areas within the site included common milkweed (*Asclepias syriaca*), Canada goldenrod (*Solidago canadensis*), Queen Anne's lace (*Daucus carota*), wild parsnip (*Pastinaca sativa*), bird-s-foot trefoil (*Lotus corniculatus*), Kentucky bluegrass (*Poa pratensis*), smooth brome (*Bromus inermis*), narrow-leaved goldenrod (*Euthamia graminifolia*), reed canary grass (*Phalaris arundinacea*), redtop grass (*Agrostis gigantea*), quackgrass (*Elymus repens*), red fescue (*Festuca rubra*), common buckthorn (*Rhamnus cathartica*), hybrid bush honeysuckle (*Lonicera x bella*), red-osier dogwood (*Cornus alba*), gray dogwood (*Cornus racemosa*), and box elder (*Acer negundo*). Please refer to the site photos in Appendix 3 for various depictions of W-1 and its adjacent upland plant community.

In general, there was distinct shift in topography and plant community composition along the ditched portion of W-1 and a more gradual shift along the main body of W-1. Hydrology in W-1 is likely sustained by surface water runoff from the surrounding upland landscape including direct stormwater flow from the ditched portion of W-1. Since it is also located within the 100-year floodplain of the Fox River, it also likely receives hydrology from the Fox River during high flood water events. Physical on-site evidence of wetland hydrology within the main body of W-1 near DP-2 included geomorphic position, and a positive FAC-Neutral test. Problem hydrology was noted on the data form since the hydroperiod is seasonal. Physical on-site evidence of wetland hydrology within the ditched portion of W-1 included surface saturation, a drainage pattern, geomorphic position, and a positive FAC Neutral test.

According to the NRCS Soil Survey of Waukesha County, Aztalan loam is the dominant mapped soil type within W-1 and most of the immediate adjacent upland. The NRCS hydric soil list classifies Aztalan loam as a somewhat poorly drained hydric soil. Two wetland data points were examined within W-1 and four were examined on the immediate adjacent upland (Appendix 4). The wetland soil profile observed near DP-2 met the A12 (Thick Dark Surface) NRCS Hydric Soil Indicator. A soil profile was not examined at DP-4 due to nearby underground

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 5 / August 12th, 2015

utilities, but based on plant community and evidence of hydrology, it is assumed that soils are hydric. Of the four upland data points examined (DP-1, DP-3, DP-5, and DP-6), none of them met a hydric soil indicator.

Wetland 2-Shallow Marsh / Shrub Carr

As shown on Figure 2 in Appendix 1, W-2 is a 3.03 acre depressional wetland within the Study Area that connects to an off-site roadside ditch south of STH 59. The wetland is labeled as S3/E2K on the WWI map. Both W-2 and its associated roadside ditch drain towards W-1 and ultimately towards the Fox River. The wetland contains primarily shallow marsh and shrub carr plant community components and is dominated by cattails (*Typha spp.*), reed canary grass, sandbar willow (*Salix interior*), meadow willow (*Salix petiolaris*), gray willow (*Salix bebbiana*), pussy willow (*Salix discolor*), silky dogwood (*Cornus amomum*), and red-osier and dogwood. The immediate adjacent upland consists of mixed old-field and scrub shrub plant communities which are described under W-1. Additionally, the upland wooded areas along the southern and western portions of this wetland were highly degraded and dominated by species such as broad-leaved enchanter's nightshade (*Circaea canadensis*), white avens (*Geum canadense*), garlic mustard (*Alliaria petiolata*), Virginia creeper (*Parthenocissus quinquefolia*), common buckthorn, hydric bush honeysuckle, and box elder. Please refer to the site photos in Appendix 3 for various depictions of W-2 and its adjacent upland plant community.

In general, there was distinct shift in topography and plant community composition along the boundary of W-2. Hydrology in W-2 is likely sustained by surface water runoff from the surrounding upland landscape. Physical on-site evidence of wetland hydrology within W-2 included a high water table, saturation, a dry season water table, geomorphic position, and a positive FAC-Neutral test. In general, hydrology was exhibited a seasonal hydroperiod along much of the wetland perimeter, but the interior appears to maintain a permanent hydroperiod.

According to the NRCS Soil Survey of Waukesha County, Navan silt loam is the dominant mapped soil type within W-2. The NRCS hydric soil list classifies Navan silt loam as a poorly drained hydric soil. Four wetland data points were examined within W-2 and four were examined on the immediate adjacent upland (Appendix 4). The wetland soil profiles observed within W-2 met the A2 (Histic Epipedon), A12 (Thick Dark Surface), and F6 (Redox Dark Surface) NRCS Hydric Soil Indicators. Of the four upland data points examined (DP-7, DP-10, DP-11, and DP-13), none of them met a hydric soil indicator.

Wetland 3-Fresh (wet) Meadow/Shallow Marsh/Shrub Carr

As shown on Figure 2 in Appendix 1, W-3 is a 3.66 acre depressional wetland within the Study Area that extends off site towards the south. The wetland is labeled as S3/E2K on the WWI map. This wetland appears to drain easterly towards the Fox River. The wetland contains primarily fresh (wet) meadow, shallow marsh, and shrub carr plant community components and is dominated by cattails, reed canary grass, sandbar willow (Salix interior), meadow willow (Salix petiolaris), gray willow (Salix bebbiana), pussy willow (Salix discolor), silky dogwood (Cornus amonum), and red-osier and dogwood. The immediate adjacent upland consists of mixed old-field and upland scrub shrub plant communities which are described under W-1. Additionally, there are smaller components of degraded mesic woodland which are dominated by species such as broad-leaved enchanter's nightshade, white avens, garlic mustard, Virginia creeper, common buckthorn, hydric bush honeysuckle, box elder, gray dogwood, and prickly ash (Zanthoxylum americanum). Please refer to the site photos in Appendix 3 for various depictions of W-3 and its adjacent upland plant communities.

In general, there was distinct shift in topography and plant community composition along the boundary of W-3, except near the far western end of W-3 where a groundwater slope was observed. Hydrology in W-3 is likely

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 6 / August 12th, 2015

sustained by surface water runoff from the surrounding upland landscape as well as some groundwater. Physical on-site evidence of wetland hydrology within W-3 included saturation (DP-20 only), inundation visible on aerial imagery (DP-16 and DP-30), a drainage pattern (DP-16 and DP-30), geomorphic position, and a positive FAC-Neutral test. In general, hydrology was exhibited a seasonal hydroperiod along much of the wetland perimeter, but the interior appears to maintain a permanent hydroperiod.

According to the NRCS Soil Survey of Waukesha County, Brookston silt loam is the dominant mapped soil type within W-3 and it also extends into portions of the upland. The NRCS hydric soil list classifies Navan silt loam as a poorly drained hydric soil. Four wetland data points were examined within W-3 and four were examined on the immediate adjacent upland (Appendix 4). The wetland soil profiles observed within W-3 met the A1 (Histosol) and A12 (Thick Dark Surface) NRCS Hydric Soil Indicators near DP-20 and DP-30 respectively; however, problematic hydric soils were observed near DP-16 due to a lack of redox features in the mineral soil below the thick dark A horizon. However, a hydrophytic plant community, low topographic position, and evidence of wetland hydrology were all present, so the soil was determined to be hydric based on best professional judgment. Of the four upland data points examined (DP-7, DP-10, DP-11, and DP-13), none of them met a hydric soil indicator.

Wetland 4-Shallow Marsh / Fresh (wet) Meadow Groundwater Seep Wetland

As shown on Figure 2 in Appendix 1, W-4 is a 0.44 acre wetland located on a hillslope within the Study Area between the 822-foot and 830-foot contours. The wetland is included in the mapped S3/E2K wetland as shown on the WWI map. The wetland contains primarily fresh (wet) meadow and shallow marsh plant community components dominated by cattails, reed canary grass, green bulrush (*Scirpus atrovirens*), and purple-stem American aster (*Symphyotrichum puniceum*). The immediate adjacent upland consists of mixed old-field and upland scrub shrub plant communities as described under W-1. Additionally, there are areas that are dominated either completely by reed canary grass or a mix of reed canary grass and Canada goldenrod. The presence of dominant reed canary grass in otherwise well drained upland areas are attributed to past site disturbance as opposed to wetland conditions as shown on the data form DP-23 for example. Please refer to the site photos in Appendix 3 for various depictions of W-4 and its adjacent upland plant communities.

Because this wetland was located on a slope, the shift from dominant wetland to old-field upland plant community, hydrology indicators such as oxidized rhizospheres on living roots, coupled with hydric soils that were moist versus non-hydric soils that were dry and friable, were the determining factors for delineating this boundary. Hydrology in W-4 appears to be sustained as a result of groundwater discharge. Physical on-site evidence of wetland hydrology within W-4 included oxidized rhizospheres on living roots (DP-22 and DP-26 only), a drainage pattern (DP-24 only), and a positive FAC-Neutral test. In general, hydrology was exhibited a seasonal hydroperiod along much of the wetland perimeter, but the interior appears to maintain a permanent hydroperiod.

According to the NRCS Soil Survey of Waukesha County, Brookston silt loam is the dominant mapped soil type within W-4 and its adjacent upland. The NRCS hydric soil list classifies Brookston silt loam as a poorly drained hydric soil. Three wetland data points were examined within W-4 and three were examined on the immediate adjacent upland (Appendix 4). The wetland soil profiles observed within W-4 met the A1 (Histosol), A2 (Histic Epipedon), A12 (Thick Dark Surface), and F6 (Redox Dark Surface) NRCS Hydric Soil Indicators. Of the three upland data points examined, none of them met a hydric soil indicator, none met wetland hydrology criterion, and only one contained a hydrophytic plant community (DP-23). As described earlier, this data point contained dominant reed canary grass which, based on a lack of hydrology indicators and hydric soil, was present due to historical disturbance as opposed to wetland conditions.

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 7 / August 12th, 2015

Wetland 5-Shallow Marsh / Fresh (wet) Meadow Groundwater Seep Wetland

As shown on Figure 2 in Appendix 1, W-5 is a small 0.20 acre wetland located on a hillslope within the Study Area approximately between the 816-foot and 820-foot contours. The wetland is included in the mapped S3/E2K wetland as shown on the WWI map. The wetland contains primarily fresh (wet) meadow and shallow marsh plant community components dominated by cattails, reed canary grass, and purple-stem American aster (*Symphyotrichum puniceum*). The immediate adjacent upland consists of mixed old-field and upland scrub shrub plant communities as described under W-1. Please refer to the site photos in Appendix 3 for various depictions of W-5 and its adjacent upland.

Because this wetland was located on a slope, the shift from dominant wetland to old-field upland plant community, hydrology indicators such as oxidized rhizospheres on living roots, coupled with hydric soils that were moist versus non-hydric soils that were dry and friable were the determining factors for delineating this boundary. Hydrology in W-5 appears to be sustained as a result of groundwater discharge. Physical on-site evidence of wetland hydrology within W-5 included oxidized rhizospheres on living roots, and a positive FAC-Neutral test.

According to the NRCS Soil Survey of Waukesha County, Brookston silt loam is the dominant mapped soil type within W-5 and its adjacent upland. The NRCS hydric soil list classifies Brookston silt loam as a poorly drained hydric soil. Due to its small size, one wetland data point was examined within W-5 and one was examined on the immediate adjacent upland (Appendix 4). The wetland soil profile observed within W-5 met the A2 (Histic Epipedon) and A11 (Depleted Below a Dark Surface) NRCS Hydric Soil Indicators. The upland data point (DP-27) did not meet a hydric soil indicator or any other wetland parameters.

CONCLUSION

Based on the wetland assessment completed by RASN, five (5) wetlands were identified within the Study Area (Figure 2). The total acreage of wetland within the Study Area is 8.35 acre (363,726 square feet) which is roughly 28 percent of the total site. No waterways were observed within the site, although a slight drainage pattern is visible within W-3. The Fox River lies approximately 250 feet due south and 600 feet due west of the site. A direct connection to the Fox River was observed for W-1 through W-3; therefore, these wetlands are assumed to be under the jurisdiction of both the WDNR and US Army Corps of Engineers (Corps). The other wetlands may or may not be under the Corps' jurisdiction and may require a determination. The roadside ditch that connects W-1 and W-2 may be considered an artificial wetland because it appears to have been excavated in upland soils; however, a formal artificial exemption request would need to be made to the WDNR for this determination.

RASN ecologists are required by the WDNR to provide their professional judgment on wetland susceptibility per revised NR 151 guidance (Guidance #3800-2015-02) (Appendix 5). In general, RASN believes W-1 would best fit into the less susceptible category due to the presence of what appears to be 90% invasive reed canary grass dominance, while the remaining wetlands would fit best into the moderately susceptible category.

The wetland boundary staked in the field by R.A. Smith National, Inc. is a professional finding based on accepted USACE and WDNR methodology at the time the wetlands were delineated. This wetland delineation field work and report is not intended to meet the requirements of an SEWRPC Environmental Corridor, WDNR Endangered Species Review, a navigability determination, or the location of either the Ordinary High Water Mark or floodplain.

STH 59 & CTH X Wetland Delineation Kapur & Associates, Inc. Page 8 / August 12th, 2015

Wetlands and waterways that are considered waters of the U.S. are subject to regulation under Section 404 of the Clean Water Act (CWA) and the jurisdictional regulatory authority lies with the USACE. Additionally, the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapters 30 and 281 Wisconsin State Statutes, and Wisconsin Administrative Codes NR 103, 299, 350, and 353. In addition, the USACE and WDNR have jurisdictional authority to determine which features are exempt including stormwater ponds and conveyance features. If the client proposes to modify an existing stormwater feature, an Artificial Determination Exemption would need to be submitted. See the form on the WDNR Wetland Identification website (fee involved) http://dnr.wi.gov/topic/wetlands/identification.html. Furthermore, municipalities, townships and counties may have local zoning authority over certain areas or types of wetland and waterways. The determination that a wetland or waterway is subject to regulatory jurisdiction is made independently by the agencies.

Any activity in the delineated wetland may require U.S. Army Corps of Engineers permits and State of Wisconsin Department of Natural Resources Water Quality Certification, and local government permits. If the Client proceeds to change, modify or utilize the property in question without obtaining authorization from the appropriate regulatory agency, it will be done at the Client's own risk and R.A. Smith National, Inc shall not be responsible or liable for any resulting damages.

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Appendices

Appendix 1: Figures

Appendix 2: WETS Table Analysis, NRCS WETS Table & Daily Precipitation Table

Appendix 3: Site Photographs

Appendix 4: Wetland Determination Data Forms – Northcentral/Northeast Region

Appendix 5: NR 151 Wetland Susceptibility Table

Appendix 1: Figures

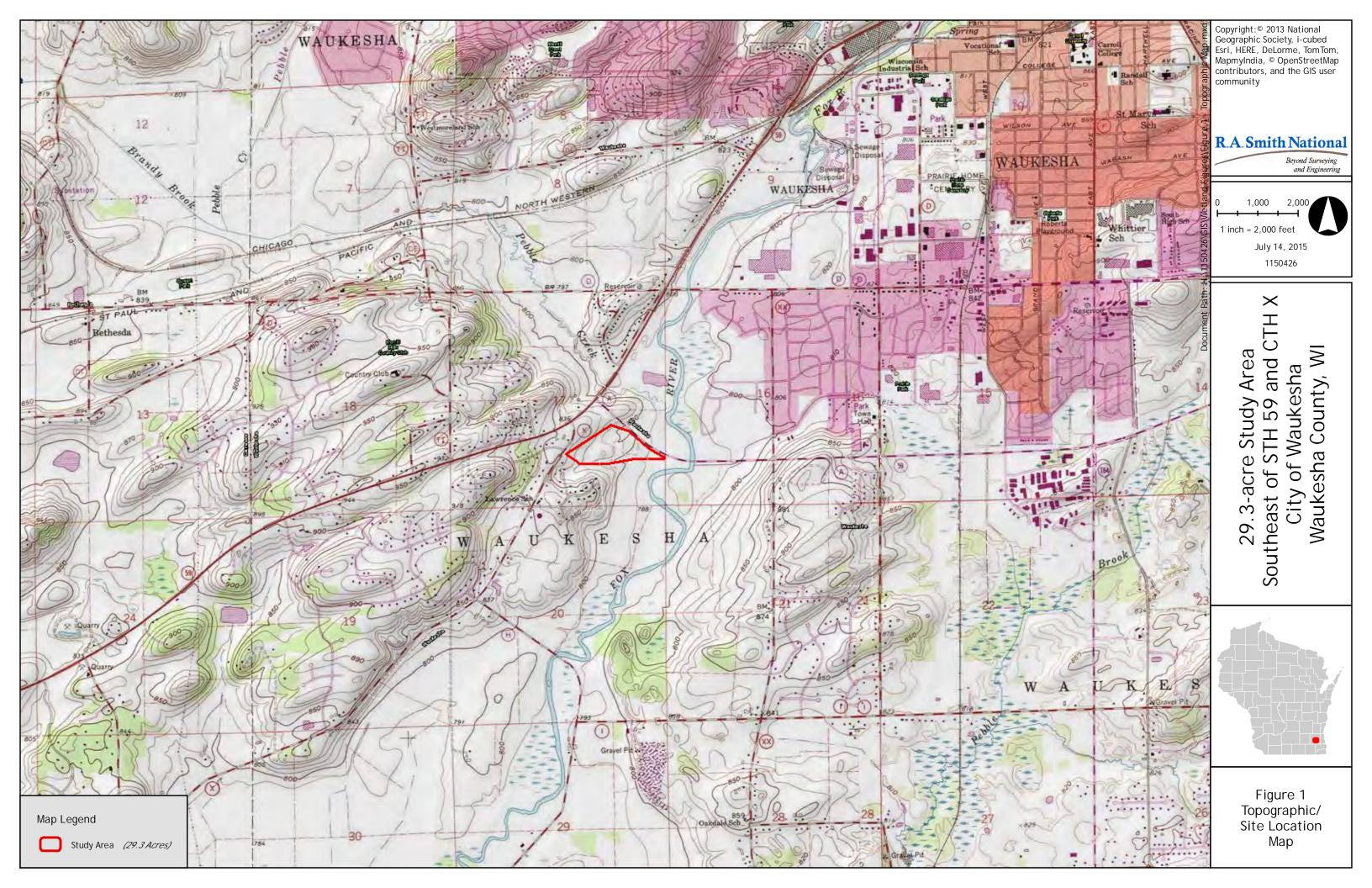
Figure 1: USGS Map/Site Location Map

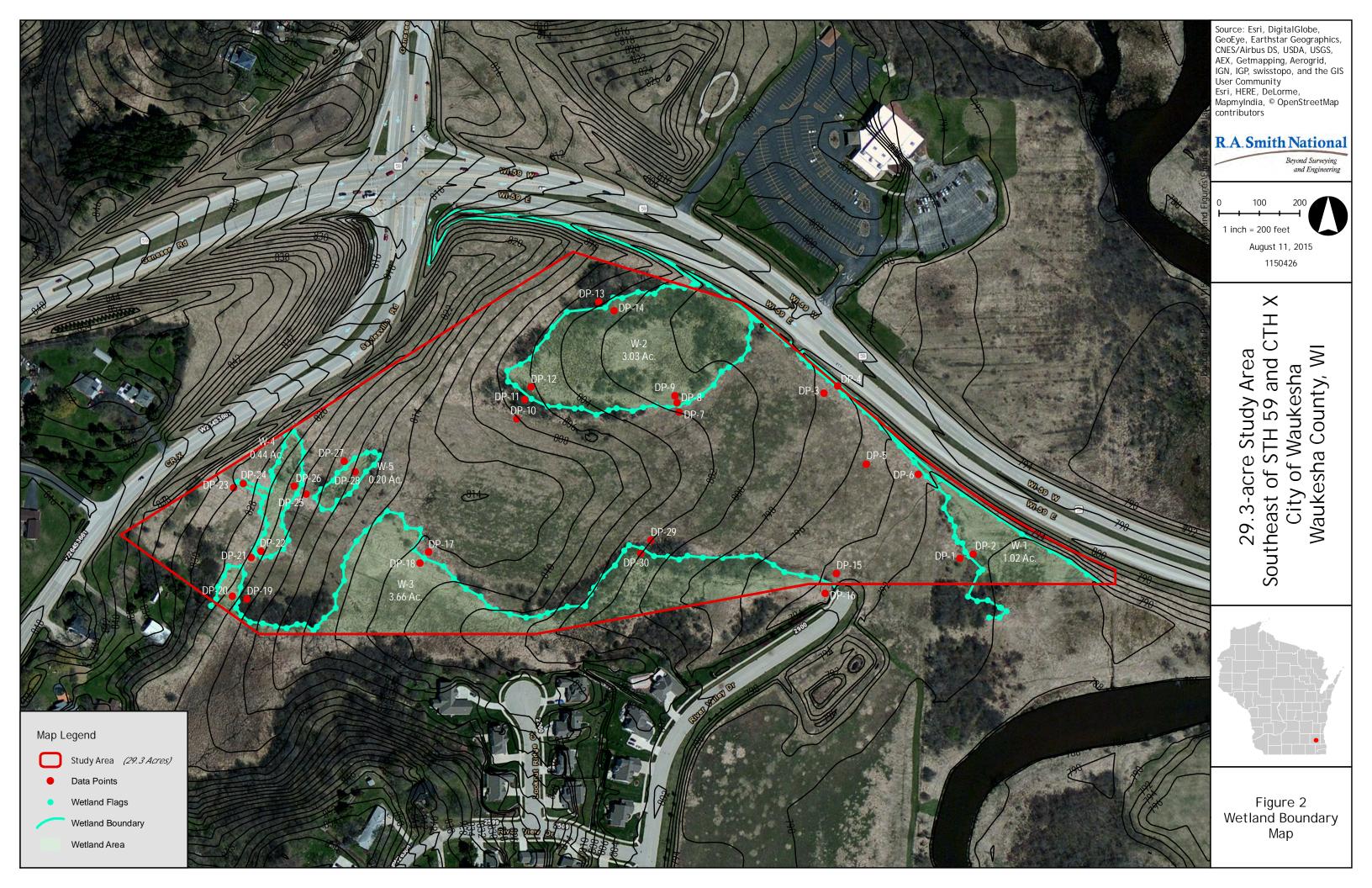
Figure 2: Wetland Boundary Map

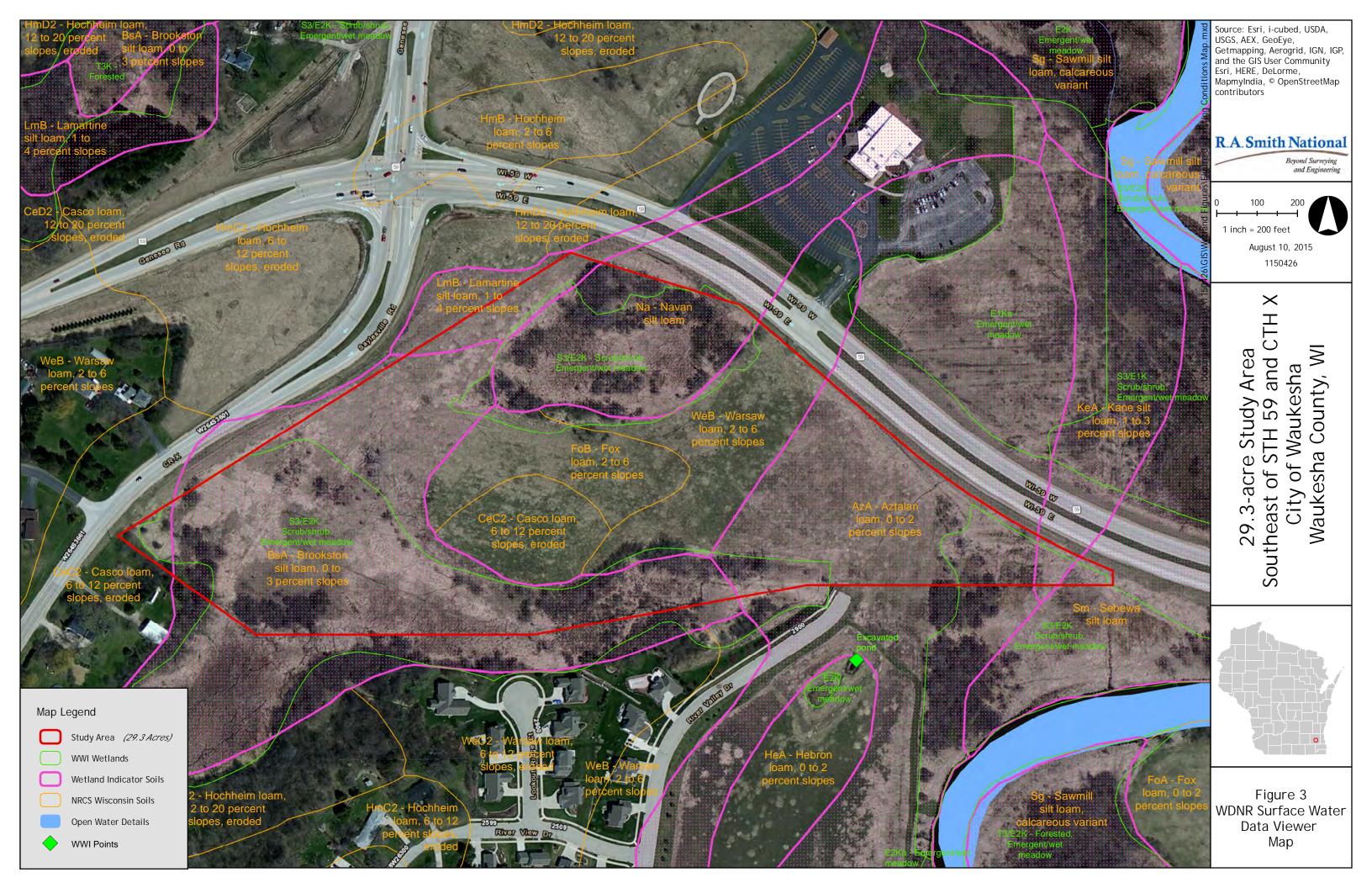
Figure 3: WDNR Surface Water Data Viewer Map

Figures 4A-D: Aerial Photographs (2000, 2005, 2007, & 2010)

Figures 5A-C: 90-day Departure from Normal Precipitation Maps



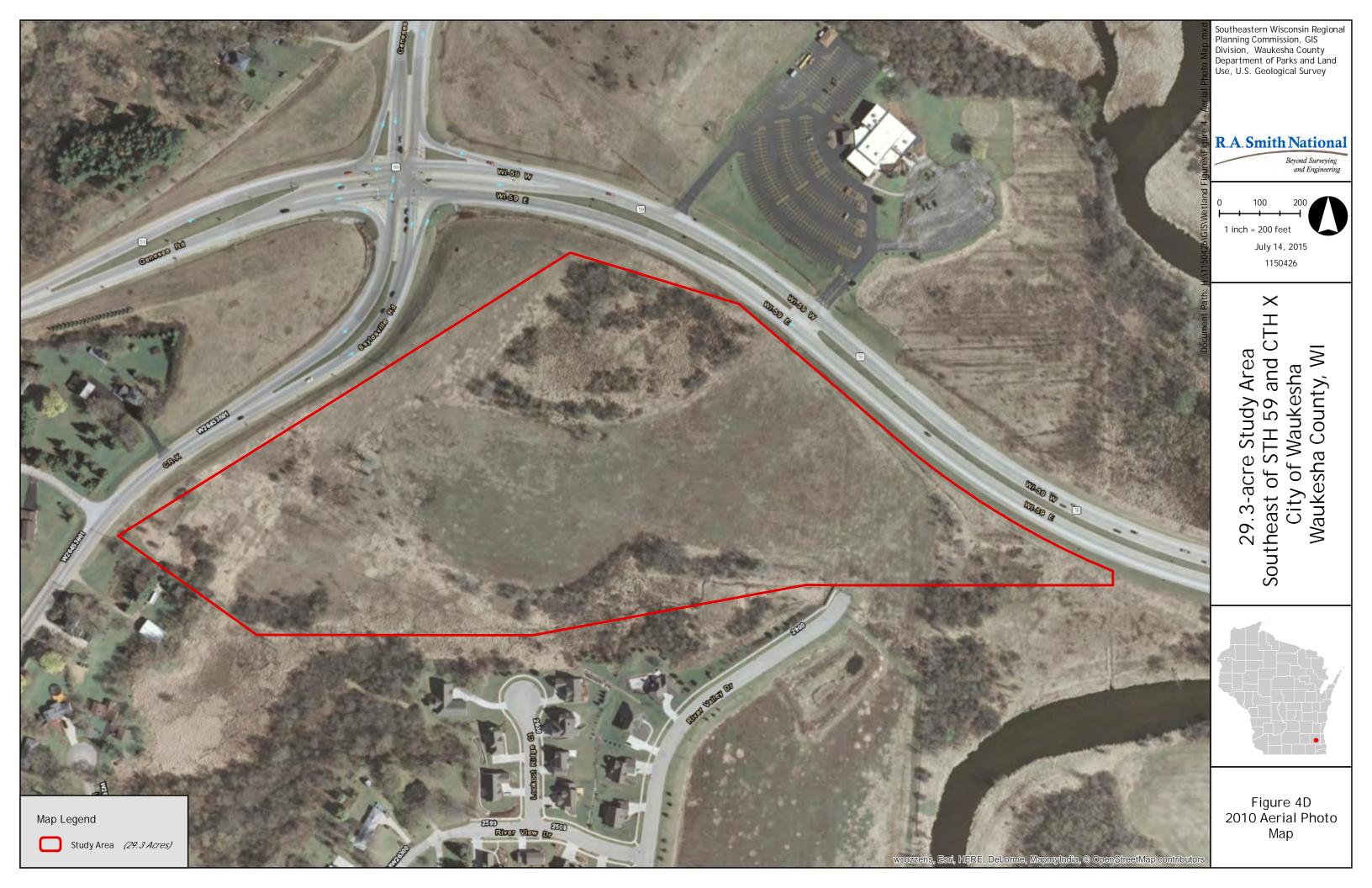




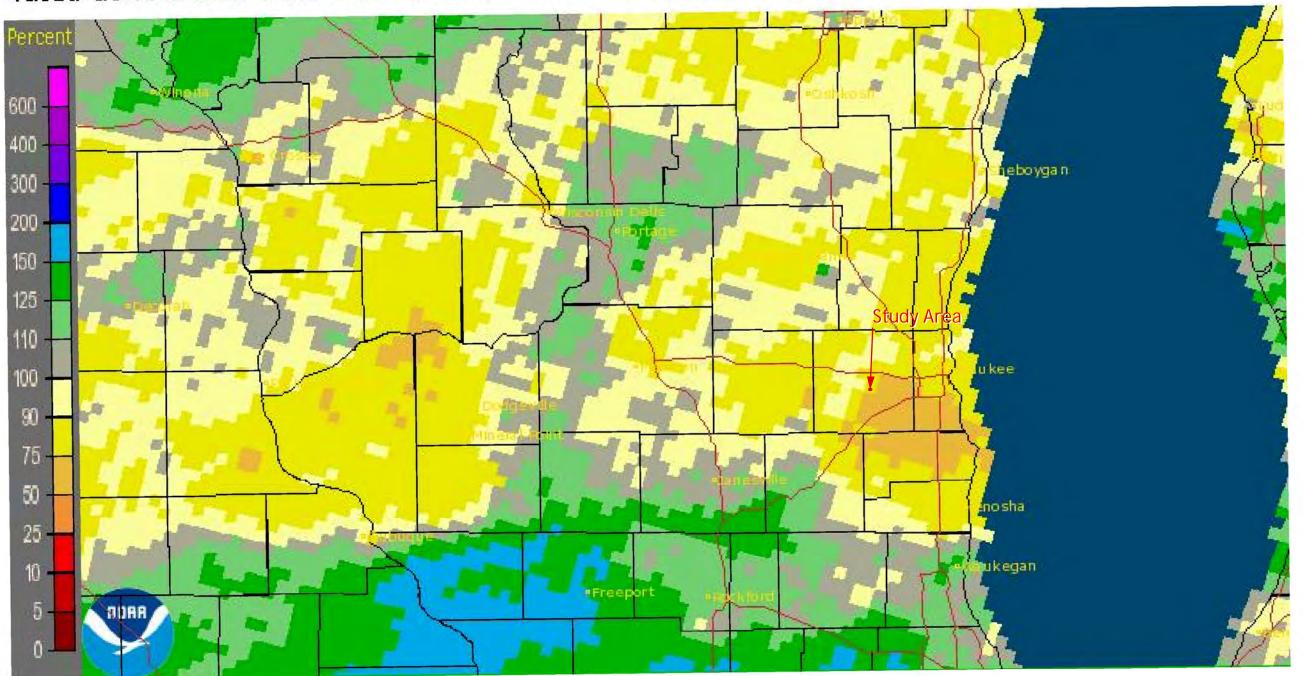








Milwaukee/Sullivan, WI (MKX): Current 90-Day Percent of Normal Precipitation Valid at 7/9/2015 1200 UTC- Created 7/9/15 18:36 UTC



Data Sources: NOAA AHPS website



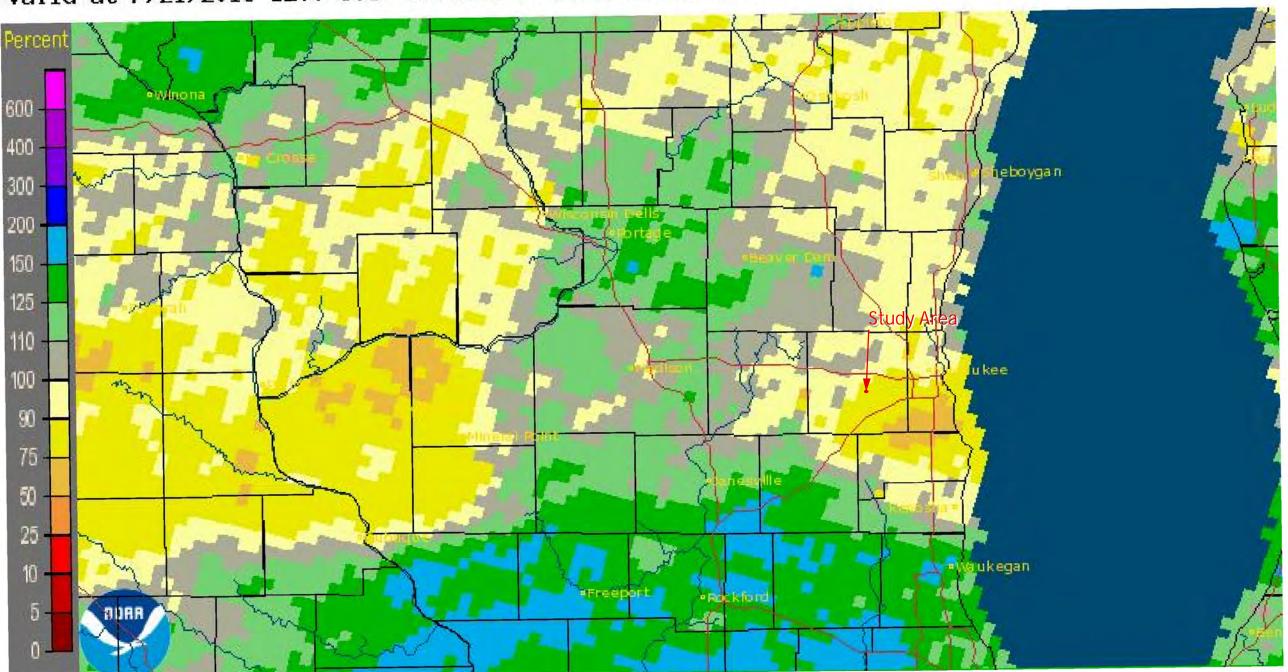
0 10 20 1 inch = 23 miles August 10, 2015 1150426

> 29.3-acre Study Area Southeast of STH 59 and CTH City of Waukesha Waukesha County, WI



Figure 5A 90-day Percent of Normal Precipitation Map

Milwaukee/Sullivan, WI (MKX): Current 90-Day Percent of Normal Precipitation Valid at 7/21/2015 1200 UTC- Created 7/22/15 13:53 UTC



Data Sources: NOAA AHPS website

R.A. Smith National

Beyond Surveying and Engineering

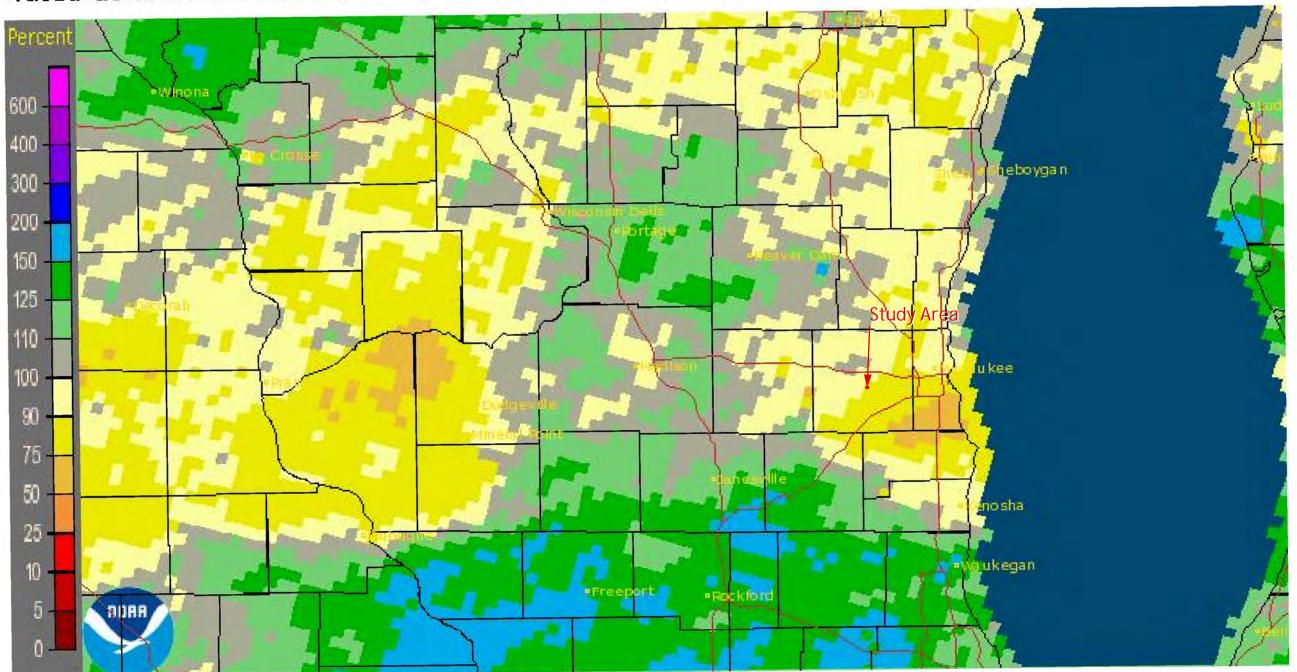
0 10 20 1 inch = 23 miles August 07, 2015 1150426

> 29.3-acre Study Area Southeast of STH 59 and CTH City of Waukesha Waukesha County, WI



Figure 5B 90-day Percent of Normal Precipitation Map

Milwaukee/Sullivan, WI (MKX): Current 90-Day Percent of Normal Precipitation Valid at 7/27/2015 1200 UTC- Created 7/27/15 18:36 UTC



Data Sources: NOAA AHPS website

R.A. Smith National

Beyond Surveying and Engineering

0 10 20 1 inch = 23 miles August 07, 2015 1150426

> 29.3-acre Study Area Southeast of STH 59 and CTH > City of Waukesha Waukesha County, WI



Figure 5C 90-day Percent of Normal Precipitation Map

Appendix 2:

WETS Table Analysis, NRCS WETS Table & Daily Precipitation Table

WETS Analysis Worksheet

Project Name: 29.3-acre Site SE of STH 59 and CTH X

Project Number: 1150426

Period of interest: April through June, 2015

County: Waukesha

Long-term rainfall records (from WETS table)

Long-term ramman records (mom WE13 table)									
	3 years in 10		3 years in 10						
Month	less than	Normal	greater than						
June	2.46	3.78	4.54						
May	2.03	3.02	3.61						
April	2.46	3.53	4.20						
	Month June May	Month 3 years in 10 less than June 2.46 May 2.03	Month 3 years in 10 less than Normal June 2.46 3.78 May 2.03 3.02						

Sum = 10.33 Sum =

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

Determination:

Dry

**Condition value:

***If sum is:

Wet

Dry

X

Normal

Site

Site determination

Condition

Rainfall (in) Dry/Normal*/Wet

Normal

3.26 Normal 2.63 Normal

4.07

9.96

Condition**

Value

Month

Weight

Sum*** =

2

Product

12

Dry = 1 6 to 9 then period has been drier than normal

Normal = 2 10 to 14 then period has been normal

Wet = 3 then period has been wetter than normal

Wet = 3 15 to 18 then period has been wetter than normal

Precipitation data source: WETS Table: Waukesha, WI8937, Waukesha County, WI

Reference: Donald E.Woodward, ed. 1997. Hydrology Tools for Wetland Determination, Chapter 19. Engineering Field Handbook. U.S. Department of Agriculture,

Natural Resources Conservation Service, Fort Worth, TX.

WETS Table

USDA Field Office Climate Data

WETS Station: WAUKESHA, WI8937 Latitude: 4300 Longitude: 08815 State FIPS/County(FIPS): 55133 County Nam Start yr. - 1971 End yr. - 2000 Creation Date: 08/04/2015 315 Elevation: 00830 County Name: Waukesha

		Temperatu (Degrees		Precipitation (Inches)						
					30% cł will		avg # of	avg total snow fall		
Month	avg daily max	avg daily min	avg	avg	less than	more than	days w/.1 or more			
January February March April May June July August September October November December	27.5 32.8 43.9 57.0 70.1 80.0 84.2 81.5 73.4 61.0 45.4 32.6	11.4 16.5 26.6 37.5 48.5 58.1 63.4 61.8 53.0 41.8 29.8 17.8	19.5 24.7 35.3 47.3 59.3 69.1 73.8 71.7 63.2 51.4 37.6 25.2	1.48 1.31 2.28 3.53 3.02 3.78 3.83 4.77 3.52 2.62 2.63 1.87	0.87 0.74 1.34 2.46 2.03 2.46 2.82 3.28 2.00 1.59 1.64 1.13	1.79 1.62 2.77 4.20 3.61 4.54 4.49 5.69 4.34 3.17 3.18 2.26	5 4 5 7 7 7 8 6 5 5 5	13.0 7.9 6.9 2.9 0.0 0.0 0.0 0.0 0.1 2.9 9.8		
Annual					32.36	36.66				
Average	57.5	38.9	48.2							
Average				34.64			59	44.9		

GROWING SEASON DATES

		Temperature				
Probability	24 F or higher 28 F or higher 32 F or hi					
	Beginning and Ending Dates Growing Season Length					
50 percent *	4/ 6 to 11/ 2 209 days	4/13 to 10/24 194 days	4/25 to 10/12 169 days			
70 percent *	4/ 3 to 11/ 5 216 days	4/ 8 to 10/29 203 days	4/20 to 10/17 179 days			

^{*} Percent chance of the growing season occurring between the Beginning and Ending dates.

total 1893-2015 prcp

Station: WI8937, WAUKESHA
----- Unit = inches

51 1.76 52 2.17 53 1.35 54 1.30 55 0.84 56 0.39 57 1.06 58 0.99 59 1.35 60 2.22 62 2.08 63 0.94 64 1.33 65 1.50 68 0.64 71 0.61 72 0.61 73 0.92 74 3.23 75 2.06 76 1.13 77 0.51 78 1.18 79 2.50 80 1.22 81 0.23 82 2.79 83 0.48 85 0.80 87 88 88 99 91 0.64 93 1.55 96 1.35 96 1.35 96 1.35 97 1.35 98 1.35 99 1.35 90 1.35 91 1.35 91 1.35 92 1.35 93 1.35 94 1.35 95 1.35 96 1.35 97 1.35 98 1.35 99 1.35 90 1.35 91 1.35 92 1.35 93 1.35 94 1.35 95 1.35 96 1.35 97 1.35 98 1.35 99 1.35 90 1.35 91 1.35 92 1.35 93 1.35 94 1.35 95 1.35 96 1.35 97 1.35 98 1.35 99 1.35 90 1.35 91 1.35 91 1.35 92 1.35 93 1.35 94 1.35 95 1.35 96 1.35 97 1.35 98 1.35 99 1.35 99 1.35 90 1.35		1.63 0.40 4.38 2.27 3.43 1.73 1.99 2.41 3.86 2.95 1.21 0.19 1.03 1.43 1.65 2.35 2.69 3.81 3.56 4.44 0.64 3.74 0.46 MO.43 2.03	5.00 3.46 3.49 3.49 3.49 3.45 3.45 3.45 3.45 3.45 3.45 3.45 3.45 3.45 3.46 3.49 3.45 3.45 3.46 3.49 3.40	4.83 1.84 2.38 4.23 M1.20 1.97 0.99 3.29 2.78	2.50 5.45 1.63 2.99 2.57 1.80 2.74 1.14 5.29 7.94 3.57 2.54 4.64 2.72 4.84 2.67 2.67 2.67 2.67 2.67 2.67 2.67 2.67	4.12 7.13 M1.82 6.89 1.58 4.65 1.33 4.74 3.03 2.18 1.65 4.14 4.29 3.65 1.58 6.19 4.58 2.71 4.58 2.71 4.55 2.55 4.74 3.65 4.75 4.75 4.75 4.75 4.75 4.75 4.75 4.7	M3.54 4.34 5.10 10.83 2.54	5.18 4.28 1.43 0.93 2.23	M5.60 1.81 0.60 0.63 4.26 5.02	3.92 3.41 0.47 0.67 1.76 3.97 2.74 2.74 2.74 2.74 2.74 2.74 2.74 2.7	1.58 0.25 0.75 0.66 0.73 3.16 2.34 1.06 2.67 1.24 2.84 2.88 0.34 2.89 2.28 1.69 2.25 1.52 2.89 2.27 4.21 2.89 2.29 4.21 2.89 2.29 2.29 2.29 2.29 2.29 2.29 2.29	38.01.73.33.1.54.1.54.0.93.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.3.3.3.2
96 1.71 97 1.78 98 2.92 99 4.27 0 1.01 1 1.28 2 0.87 3 0.22 4 0.76 5M2.33 6 0.97 7M0.97 8 0.96 9 1.05 10 0.86 11 0.85	3.20 2.14 1.22 1.26 3.12 1.56 MO.11 MO.72 1.57 0.68 M1.42	0.92 3.55 0.83 1.34 0.35 1.73 1.49 2.84 0.69 1.55	2.46 3.57 5.45 2.97 4.75 3.96 1.35 2.31 1.03	2.38 4.16 3.82 8.05 5.42 2.89 5.67 9.44 2.86 M4.63 2.05 2.23 3.39	6.78 3.92 6.14 4.15 4.62 3.30 2.22 5.11 M2.19 M2.18	4.04 1.40 6.48 7.54 1.87 3.32 3.33 2.02 M2.69	5.53 6.41 1.86 5.78 4.82 8.50 0.51 M4.35 1.18 4.49 9.62 1.04 3.67 1.48 3.16	1.80 2.32 3.87 7.00 4.66 3.32 1.90 0.13 M3.64	1.43 3.39 0.77 0.92 3.59 2.76 1.64 2.39 0.43	1.09 2.39 0.78 M2.41 M1.54 0.73 M4.12	M1.24 0.98 1.77 M2.30 M1.30 0.69 2.35 M1.35 M0.87	32.6 37.1 37.2 44.7 37.3 33.6 24.9 33.6 22.7 40.8 39.9 38.3

								e.txt				
12	1.74	0.98	3.42	2.37	5.03	0.58	3.06	2.10	2.33	4.00	0.62	3.70 29.93
13	2.71	3.84	1.64	7.57	7.24	7.29	2.29	3.54	2.38	2.73	2.85	1.09 45.17
$\overline{14}$	1.24	1.50	1.21	4.04	5.20	5.80	3.21	5.23	1.22	2.60	1.97	0.69 33.91
15	0.88	MO.79	0.70	4.07	2.63	3.26	м2.02					14.35

Product generated by ACIS - NOAA Regional Climate Centers.

Daily Data

USDA Field Office Climate Data

WAUKESHA (478937) Observed Daily Data Month: Jul 2015

Day 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 27 28	Max Temp	Min Temp	AVg Temp	GDD B50	GDD Total B40 Prcpn 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	New Snow Snow Depth
27 28 29 30 31					0.00	

Smry 2.08 Product generated by ACIS - NOAA Regional Climate Centers.

Appendix 3:

Site Photographs



Photograph 1 (7/21/15): Southeast facing view of W-1, a large fresh (wet) meadow dominated by reed canary grass.



Photograph 2 (7/21/15): West facing view of W-1, a large fresh (wet) meadow. The wetland boundary was delineated in the approximate location of the shrubs observable in the background.



Photograph 3 (7/21/15): Southeast facing view of the shallow marsh ditch that connects to the main body of W-1. The photo was taken from the old farm access driveway off of CTH X.



Photograph 4 (7/21/15): South facing view of a shallow marsh community within W-2 from CTH X. Shrub carr plant community components are also visible in the background.



Photograph 5 (7/21/15): East facing view of the off-site wetland ditch that connects to W-2.



Photograph 6 (7/21/15): A general view W-2 (background) and the adjacent upland "old-field" plant community (foreground) taken approximately near DP-7.



Photograph 7 (7/22/15): West facing view of W-3 from the end of River Valley Drive.



Photograph 8 (7/22/15): Southwest view of W-3 from approximately DP-18.



Photograph 9 (7/22/15): South facing view of W-3 near west end of wetland.



Photograph 10 (7/27/15): General view of W-4, a groundwater slope wetland.



Photograph 11 (7/27/15): East facing view of W-5, a groundwater slope wetland.



Photograph 12 (7/27/15): General south facing view of the upland old-field plant community observed within the site.



Photograph 13 (7/21/15): Interior view of one of the degraded upland woods within the site which were dominated mostly by invasive species such as common buckthorn (*Rhamnus cathartica*).



Photograph 14 (7/27/15): General view within the southwest corner of the site showing components of wetland, upland "old-field" degraded upland scrub shrub and mesic woodland.

Appendix 4:

Wetland Determination Data Forms – Northcentral/Northeast Region

Project/Site:	29.3-Acre Site Southeast of STH 59 8		City/County	Wau	kesha/Waukesha	Sampling Date:	7/9/15
Applicant/Owner:		Associates, Inc			State: WI		1
nvestigator(s):	Tina M. Myers, PWS		Section				-
_andform (hillslope,	terrace, etc.): sligh	t hillslope		Local	relief (concave, convex		lightly convex
	3% Lat:		Long:			Datum:	
	Aztalan loam, 0-2% slopes (AzA)				WWI class	sification: \$3/E2K	
Are climatic/hydrolo	gic conditions on the site typical for this t	time of year?	Yes X	No	(If needed, explain any	y answers in Remarks	.)
Are Vegetation	N Soil N or Hydrology N	_significantly of	disturbed?		Are "Normal Circums	tances" present?	Yes X No
Are Vegetation	N Soil N or Hydrology N	_naturally prob	olematic?		(If needed, explain any	y answers in Remarks	.)
					4	4-	
SUMMARY OF FI	NDINGS - Attach site map showing	g sampling p	oint location	s, transec	ts, important feature	etc.	
Hydrophytic Vegeta	ation Present? Yes N	No X					
Hydric Soil Present				tne Samp Wetland?	led Area within	No X	
			a		-		- Upland
Wetland Hydrology					onal Wetland Site ID:		· · · · · · · · · · · · · · · · · · ·
Remarks: (Explain	alternative procedures here or in a sepa	rate report.) D	ata point is lo	cated wiith	iin a upland old-field s	crub shrub commun	ity.
VEGETATION - I	Use scientific names of plants.				4-		
		Absolute %	Dominant	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	Species That	
1. Rhamnus cath	nartica	5%	Υ	FAC	Are OBL, FACW, or I	FAC:	2 (A)
2.							
3,					Total Number of Don	ninant Species	
4.					Across All Strata:		5 (B)
_							
•					Percent of Dominant	Species That Are	
7.					OBL, FACW, or FAC	,	40 % (A/B)
-		5%	= Total Cover				
Sapling/Shrub Stra	itum (Plot size: equiv to 15' radius)				Prevalence Index wo	rksheet:	
1. Cornus amom		25%	Υ	FACW	Total % Cover of:	Mul	tiply by:
2. Rhamnus cath		5%	N	FAC	OBL species		
3.		7			1		
4					FAC species	x 3 =	
5.					FACU species		
				-	UPL species		
7					Column Totals:		(B)
-		30%	= Total Cover	-	Prevalence Inc		(-)
Harb Stratum (Plai	t size: equiv to 5' radius)	3078	- Total Cover		Hydrophytic Vegetation		
	,	40%	Υ	FACU	1 , 1 ,	drophytic Vegetation	
1. Poa pratensis		40%	Y	FACU	Dominance Test is		
2. Symphyotrich		40%	Y	UPL	Prevalence Index		
3. Asclepias syri							
4. Phalaris aruno		25%	N N	FACW		aptations¹ (Provide sup	oporting data in
5. Pastinaca sati		20%	N N	UPL	Remarks or on a s		(niola)
6. Cirslum arvens		20%	N N	FACU	Problematic Hydro	ophytic Vegetation¹ (E)	(piain)
7. Parthenocissu		10%	N	FACU	Undicators of hydric s	soil and wetland hydrol	logy must be present
8. Frangula alnus		3%	N	FAC	unless disturbed or p	•	ogy must be present,
9. Ulmus america	ana	3%	N	FACW			
10		-			Definitions of Vegetal		in diameter at broadt
11,					height (DBH), regard	3 in. (7.6cm) or more i	n diameter at breast
12						_	DDU
		201%	= Total Cover	- 1	3_28 (1m) tall	by plants less than 3 in	n. DBH and greater than
Woody Vine Stratu	m (Plot size: equiv to 30' radius)						
1,							regardless of size, and
2.					woody plants less that		
3,					Woody vines - All wo	ody vines greater than	3,28 ft in height.
4.					la Undeach die V	tation	
,		0%	= Total Cover		Is Hydrophytic Vege Present?	tation	Yes No x
						and a lamenta	YesNo_x_
Remarks: (Include	photo numbers here or on a separate sh	neet.) Plant co	mmunity is a i	nix of "old	-tieid" and upland scri	uo snrub.	

SOIL								Sampling Politi.
Profile Descri	otion: (Describe to t	he depth need	ed to document the in	ndicator or co	onfirm the a	bsence of	indicators.)	
Depth	•	•						
(inches)	Matrix				ox Features	1 2	Tankon	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-18	10YR 2/2	100%					silt loam	
18-24	10YR 4/2	99%	10YR 5/6	1%	C	M	silt loam	
				3	-			
	-							
	-			-	-			
	-				-	_		
					-			
	-							
		-						
¹Type: C=Cond	centration, D=Depletic	on, RM=Reduce	ed Matrix, MS=Masked	Sand Grains.			²Location: Pl	_=Pore Lining, M=Matrix_
Hydric Soil Inc	dicators:						Indicators for Problema	tic Hydric Soils³:
Histosol ((A1)		Dark Surface	(S7) (LRR R,	MLRA 149E	3)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
I—	ipedon (A2)			low Surface (S			B Coast Prairie Redo	ox (A16) (LRR K, L, R)
Black His				ırface (S9) (LF				or Peat (S3) (LRR K, L, R)
I—	, ,			y Mineral (F1)		1402)	Dark Surface (S7)	
I— · ·	Sulfide (A4)				(LIXIX IX, L)			urface (S8) (LRR K, L)
I—	Layers (A5)			d Matrix (F2)				, , ,
· ·	Below Dark Surface	(A11)	Depleted Ma				Thin Dark Surface	
Thick Da	rk Surface (A12)		Redox Dark				-	lasses (F12) (LRR K, L, R)
Sandy Mi	ucky Mineral (S1)		Depleted Dai	rk Surface (F7)			in Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix (S4)		Redox Depre	essions (F8)			Red Parent Materi	, ,
Sandy Re	edox (\$5)						Very Shallow Dark	Surface (TF12)
Stripped	Matrix (S6)						Mesic Spodic (TA6	5)
3Indicators of I	hydrophytic vegetatio	n and wetland h	ydrology must be pres	ent, unless di	sturbed or pr	oblematic.	Other (Explain in F	Remarks)
							_	
	yer (if observed):							
Type: no								o v Na V
Depth (inc	ches): n/a						Is Hydric Soil Present	? Yes No X
Remarks: Hyd	ric soil criterion is r	ot met.						
110								
LIVEROL OF								
HYDROLOG	iΥ							
Wetland Hydro	logy Indicators:						Secondary Indicate	ors (minimum of two required)
Primary Indicat	ors (minimum of one	is required: che	eck all that apply)				Surface So	l Cracks (B6)
Surface V	Vater (A1)		Water-Stair	ned Leaves (B	9)			atterns (B10)
	er Table (A2)		Aquatic Fau	, ,			Moss Trim	111 1 11 11 11 11
Saturation			Marl Depos					Water Table (C2)
Water Ma				ulfide Odor (C		·- (CO)	Crayfish Bu	rrows (C8) /isible on Aerial Imagery (C9)
	t Deposits (B2)			nizospheres or f Reduced Iror	-	(S (C3)		Stressed Plants (D1)
Drift Depo	osits (B3) tor Crust (B4)			Reduction in		C6)		c Position (D2)
Iron Depo	, ,			Surface (C7)	med cono (00)	Shallow Aq	, ,
	n Visible on Aerial Im	agery (B7)		ain in Remark	s)			raphic Relief (D4)
	Vegetated Concave S				-,		FAC-Neutra	
		, ,						
Field Observat	tions:							
Surface Water		YesN				4		
Water Table Pr		res No						
Saturation Pres		YesN	Depth (inc	ches):		Is Wetl	and Hydrology Present	? Yes No X
(includes capilla	ary fringe)					1-11-1100	O Blood Finner A. Annes	dia 4) WOND Confess Water
Describe Recoi	rded Data (stream ga	uge, monitoring	well, aerial photos, pr	evious inspec	uons), if avai	nadie: USG	o wap (rigure 1, Apper	dix 1), WDNR Surface Water Maps (Figures 5A-C, Appendix
		uix 1), aeriai p	notos from 2000, 200	o, 2007 and 2	o io (rigure	5 4A-D, AP	pendix 1), NOAA Piecip	maps (i iguies JA-C, Appelluix
1), WETS Data Remarks: No.	wetland hydrology in	dicators obse	rved. WETS data indi	icates normal	climatic co	nditions fo	or April-June. NOAA m	ap (Figure 5A) also indicates
	however it is the dr				office of			· · · · · · · · · · · · · · · · · · ·
		, 5 51 616 116						
					1			

Project/Site:	29.3-Acre Site Southeast of STH 59 8	CTH X	City/County	Wau	kesha/Waukesha	Sampling Date:	7/9/15
Applicant/Owner:	Kapur & A	Associates, Inc	c		State: WI	Sampling Point:	2
nvestigator(s):	Tina M. Myers, PWS		Section	, Township	, Range:	SE 1/4 Sec 17, T	6N, R19E
andform (hillslope	e, terrace, etc.): wetland dep	ression/flood	olain	Local	relief (concave, convex	(, none):	concave
	0% Lat:					Datum:	
Soil Map Unit Nam	e: Aztalan loam, 0-2% slopes (AzA)				WWI class	sification: S3/E2K	
Are climatic/hydrolo	ogic conditions on the site typical for this t	time of year?	Yes X	No	(If needed, explain any	y answers in Remark	s)
Are Vegetation _	N Soil N or Hydrology N	_ significantly	disturbed?		Are "Normal Circums	tances" present?	Yes X No
\re Vegetation _	N Soil N or Hydrology N	naturally prol	blematic?		(If needed, explain any	y answers in Remark	s.)
	INDINO. Attack site area should		alud laaadlau.		to immortant footure	no oto	
SUMMARY OF F	INDINGS - Attach site map showing	sampling p	oint location	s, transec	its, important feature	is, etc.	
Hydrophytic Vege	tation Present? Yes X	No	le le	the Samp	led Area within		
Hydric Soil Preser		No		Wetland?		X No	
l '	ly Present? Yes X				ional Wetland Site ID:		W-1
	n alternative procedures here or in a sepa		idae of a large			ociated with the Fo	x River The hydroneriod
is temporary her		nate report)	uge of a large	ilesii (wet	/ Illeadow Wetland ass	Ociated with the Fo.	k Miter. The hydropenou
is temporary ner	••						
VEGETATION -	Use scientific names of plants.						
VEGETATION	Ose scientific flames of plants.				T De sie een Trederich	la bash	
		Absolute %	Dominant	Indicator	Dominance Test wor		
,	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant		4 (4)
1. Rhamnus cat	hartica	5%	<u> </u>	FAC	Are OBL, FACW, or I		(A)
				_			
			$\overline{}$	_	Total Number of Don	ninant Species	4 (D)
_				_	Across All Strata:	-	4 (B)
6					Percent of Dominant		4009/ (A/P)
/			Total Cause		OBL, FACW, or FAC	-	100%(A/B)
		5%	= Total Cover		Desvelopes Index wo	whahaat:	
	atum (Plot size: equiv to 15' radius)	000/	V	FACIAL	Prevalence Index wo		Itinha bur
1. Cornus amon			Y	FACU	Total % Cover of:		ultiply by:
2. Zanthoxylum		5%		FACU	OBL species		
3. Viburnum len	itago	3%	N	FAC		x2=_	
4.				$\overline{}$	FAC species FACU species	x 3 = _	
				-	UPL species		
6					Column Totals:	^3	(B)
· -		28%	= Total Cover	-	Prevalence Inc		(5)
Harb Stratum (Di	ot aiza: aquiy ta 5! radiye)	20 /0	- Total Cover		Hydrophytic Vegetation		
1. Phalaris arun	ot size: equiv to 5' radius)	60%	Υ	FACW		drophytic Vegetation	
-		40%		FACW	X Dominance Test is		
 Solidago giga Asclepias syr 		25%		UPL	Prevalence Index		
4. Phalaris arun		5%	N	FACW		aptations¹ (Provide su	innoiting data in
5. Pastinaca sat		5%	N	UPL	Remarks or on a s	•	ipporting data in
6. Cirsium arver		3%	N	FACU		ophytic Vegetation¹ (E	Explain)
-	us quinquefolia	2%	N	FACU	_	.,., ,	,
8.	us quinqueiona	270		17.00	Indicators of hydric s	soil and wetland hydre	ology must be present,
^					untess disturbed or p	roblematic.	
					Definitions of Vegeta	tion Strata:	
					Tree - Woody plants	3 in. (7.6cm) or more	in diameter at breast
					height (DBH), regard	less of height	
-		140%	= Total Cover		Sapling/shrub - Wood	dy plants less than 3	in, DBH and greater than
Woody Vine Strati	um (Plot size: equiv to 30' radius)	1.0070	, 513 5575.		3.28 (1m) tall.		
1	ann (not size. equit to ob radiato)				Herb - All herbaceous	s (non-woody) plants	, regardless of size, and
_				-	woody plants less that	an 3.28 ft tall	
•					Woody vines - All wo	ody vines greater tha	n 3.28 ft in height.
4.							
-		201	- T-/-1 C		Is Hydrophytic Vege	tation:	Vac V Na
		0%	= Total Cover		Present?		Yes_X_No
Remarks: (Include	e photo numbers here or on a separate s	heet.) Plant co	mmunity is a	fresh (wet)	meadow with a few so	attered shrubs alor	ig the edge.

SOIL								Sampling Point: 2
Profile Descrip	otion: (Describe to the	depth need	ed to document the ir	ndicator or co	nfirm the a	bsence of	indicators.)	
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-20	10YR 2/1	100%					silt loam	
20-26	10YR 5/1	90%	10YR 5/8	10%	С	M	si cl loam	
				3				
								D. I. J. M. Martin
	centration, D=Depletion	i, RM=Reduc	ed Matrix, MS=Masked	Sand Grains.				L=Pore Lining, M=Matrix.
Hydric Soil Inc							Indicators for Problems	
Histosol ((S7) (LRR R,				(LRR K, L, MLRA 149B)
· · ·	pedon (A2)			low Surface (S	, ,			ox (A16) (LRR K, L, R)
Black His	` '			rface (S9) (LR	·	149B)		or Peat (S3) (LRR K, L, R)
l— ' °	Sulfide (A4)			y Mineral (F1) ((LRR K, L)		Dark Surface (S7)	
I—	Layers (A5)		Loamy Gleye					Surface (S8) (LRR K, L)
l— '	Below Dark Surface (A	(11)	Depleted Mat				Thin Dark Surface	Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Redox Dark \$					ain Soils (F19) (MLRA 149B)
I— ·	ucky Mineral (S1)			k Surface (F7)			Red Parent Materi	
	eyed Matrix (S4)		Redox Depre	ssions (F8)			Very Shallow Dark	· ·
Sandy Re							Mesic Spodic (TA	
	Matrix (S6) nydrophytic vegetation :		underland mount be eree	ant unloss dis	turbod or n	roblomatic	-	
		and welland i	iyarology must be pres	ent, uniess dis	turbed or pr	Toblematic.		,
	yer (if observed):							
Type: no							la Undria Cail Dragoni	2 Von V No
	hes): n/a						Is Hydric Soil Present	:? Yes <u>X</u> No
Remarks: Thic	k dark A horizon, but	meets A12 i	ndicator.					
HYDROLOG	Υ							
Wetland Hydro	logy Indicators:						Secondary Indicat	ors (minimum of two required)
Primary Indicat	ors (minimum of one is	required: che						il Cracks (B6)
	Vater (A1)			ed Leaves (B9))			atterns (B10)
High Wat Saturation	er Table (A2)		Aquatic Fau Marl Depos					Lines (B16)
Water Ma	` '			ulfide Odor (C	1)			urrows (C8)
	Deposits (B2)			nizospheres on		ts (C3)		Visible on Aerial Imagery (C9)
Drift Depo				f Reduced Iron		(Ce)		Stressed Plants (D1) ic Position (D2)
Iron Depo	or Crust (B4)			Reduction in 1 Surface (C7)	illea Solis ((00)	Shallow Ag	
	n Visible on Aerial Ima	gery (B7)		ain in Remarks	3)			raphic Relief (D4)
	Vegetated Concave Su				,		X FAC-Neutra	al Test (D5)
						<u> </u>		
Field Observat Surface Water		es Ne	X Depth (inc	hes)				
Water Table Pr						5		
Saturation Pres						ls Wet	land Hydrology Present	? Yes <u>X</u> No
(includes capilla	ary fringe)				1	U-61 116 5	DO Man Without A. A.	adiv 4) MIDNID Confee - Minter
Describe Recor	ded Data (stream gaug	ge, monitoring	well, aerial photos, pr	evious inspect	ions), if ava	ilable: USC	Map (Figure 1, Apper	ndix 1), WDNR Surface Water
Data Viewer M 1), WETS Data		ix 1), aerial p	notos from 2000, 200	5, 2007 and 20	viv (rigure	5 4A-D, A	openuix 1), NOAA Frecij	Maps (Figures 5A-C, Appendix
Remarks: Wet	land hydrology is sea	sonal in this	location. Boundary	was based on	shift in pla	int commu	unity, presence of hydric	soils, and best professional
judgment. WE	TS data indicates no	rmal climatic	conditions for April-	June. NOAA	map (Figur	e 5A) also	indicates normal range	, however it is the dry end of the
normal range.								

Project/Site:	29.3-Acre Site Southeast of STH 59	&CTH X	City/County	:Waul	kesha/Waukesha	Sampling Date: 7/21/15
Applicant/Owner:		Associates, In-			State: WI	
Investigator(s):	Tina M. Myers, PWS		Section		, Range:	SE 1/4 Sec 17, T6N, R19E
Landform (hillslope	e, terrace, etc.):	plain		Local	•	, none): flat
' ' '	0% Lat:		Long:			Datum:
Soil Map Unit Name	e: Aztalan Ioam, 0-2% slopes (AzA)				WWI class	-
•	ogic conditions on the site typical for this			No		answers in Remarks.)
Are Vegetation _	N Soil N or Hydrology N	significantly	disturbed?		Are "Normal Circumst	
Are Vegetation _	N Soil N or Hydrology N	naturally pro	blematic?		(If needed, explain any	answers in Remarks.)
SUMMARY OF F	INDINGS - Attach site map showir	na samplina p	oint location	s. transec	ts. important feature	s. etc.
DOMINIARY OF T			ome roddion	o, trancoo	to, important routare	
Hydrophytic Veget	tation Present? Yes	No X	ls	the Sampl	led Area within	
Hydric Soil Preser	nt? Yes	No X	a	Wetland?	Yes _	NoX
Wetland Hydrolog	y Present? Yes			If yes, opti	onal Wetland Site ID:	none - Upland
Remarks: (Explain	n alternative procedures here or in a sep	parate report.) Pl	ant communit	y is an upla	and "old-field".	
V 4						
VEGETATION -	Use scientific names of plants.					
		Absolute %	Dominant	Indicator	Dominance Test work	sheet:
Tree Stratum (Plot	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	Species That
1					Are OBL, FACW, or F	AC:1(A)
3.					Total Number of Dom	inant Species
4.					Across All Strata:	2 (B)
5						
6					Percent of Dominant	
7					OBL, FACW, or FAC:	50% (A/B)
		0%	= Total Cover			
Sapling/Shrub Stra	atum (Plot size; equiv to 15' radius)				Prevalence Index wor	
1					Total % Cover of:	Multiply by:
2					OBL species _	0 x 1 = 0
3					FACW species _	80 x 2 = 160
4					FAC species _	0 x 3 = 0
5					FACU species _	108 × 4 = 432
6					UPL species _	0 x5 = 0
7					Column Totals: Prevalence Ind	188 (A) 592 (B)
		0%	= Total Cover		-	
	ot size: equiv to 5' radius)	2001	v	EAGU	Hydrophytic Vegetatio	
1. Poa pratensis			<u> </u>	FACU	·	rophytic Vegetation
2. Phalaris arun		50%	Y		Dominance Test is Prevalence Index i	
3. Symphyotrich		30%	N N	FACU		
4. Solidago cana			N N	FACU	— Morphological Ada Remarks or on a s	ptations¹ (Provide supporting data in
Cirslum arven Sonchus olera		<u>10%</u> 5%	N	FACU		phytic Vegetation¹ (Explain)
		3%	N	FACU	_ Toblematic Hydro	priyac vegetation (Explain)
7. Taraxacum of 8.	numate	3/0	IN	I ACU	Indicators of hydric se	oil and wetland hydrology must be present,
					unless disturbed or pr	oblematic.
m.lo.le					Definitions of Vegetati	ion Strata:
0.101						in, (7,6cm) or more in diameter at breast
12.					height (DBH), regardle	
		188%	= Total Cover		Sapling/shrub - Wood	y plants less than 3 in. DBH and greater than
Woody Vine Strate	ım (Plot size: equiv to 30' radius)				3.28 (1m) tall.	
1.	(. iot o.zo. oquiv to oo radida)				Herb - All herbaceous	(non-woody) plants, regardless of size, and
					woody plants less that	n 3 28 ft tall
					Woody vines - All woo	ody vines greater than 3.28 ft in height.
4.						
		0%	= Total Cover		Is Hydrophytic Veget Present?	
Domosko: //palita	shate numbers have as a service.			unland !!-		
Remarks: (Include least 10 years.	e pnoto numbers nere or on a separate :	sneet) Plant co	mmunity is an	upiana "o	iu-neid". Area was fari	med back in 2000 and has been fallow for at
ouse to years.						

SOIL								Sampling Point: 3
Profile Descript	tion: (Describe to th	e depth need	led to document the i	ndicator or co	nfirm the a	bsence of i	indicators.)	
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-13	10YR 3/2	100%					silt loam	
13-24	10YR 4/3	100%				-	silt loam	
13-24	1011(4/5	10078		-	_	_		
					_			
	-							
1								
	-							
	-							
-	-			-				
				-				
					-			100
¹ Type: C=Conce	entration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Masked	Sand Grains.			²Location: PL	=Pore Lining, M=Matrix.
Hydric Soil Indi	cators:						Indicators for Problemat	ic Hydric Soils³:
Histosol (A	(1)		Dark Surface	(S7) (LRR R,	MLRA 149E	3)	2 cm Muck (A10) (L	.RR K, L, MLRA 149B)
Histic Epip	edon (A2)		Polyvalue Be	low Surface (S	88) (LRR R.	MLRA 149	B Coast Prairie Redo:	x (A16) (LRR K, L, R)
Black Histi	• •			ırface (S9) (LR	, .			r Peat (S3) (LRR K, L, R)
						1400)		
/	Sulfide (A4)			y Mineral (F1)	(LKK K, L)		Dark Surface (S7) (
Stratified L				ed Matrix (F2)				urface (S8) (LRR K, L)
Depleted B	Below Dark Surface (A11)	Depleted Ma	trix (F3)			Thin Dark Surface (
Thick Dark	Surface (A12)		Redox Dark	Surface (F6)			Iron-Manganese Ma	asses (F12) (LRR K, L, R)
Sandy Muc	cky Mineral (S1)		Depleted Dar	rk Surface (F7))		Piedmont Floodplai	n Soils (F19) (MLRA 149B)
Sandy Gley	yed Matrix (S4)		Redox Depre	essions (F8)			Red Parent Materia	l (TF2)
Sandy Red				, ,			Very Shallow Dark	Surface (TF12)
							Mesic Spodic (TA6)	
Stripped M	, ,						Other (Explain in Re	
Indicators of hy	dropnytic vegetation	and wetland	hydrology must be pres	sent, uniess ais	sturbed or pr	obiematic.	— Other (Explain in Ne	Elliars)
Restrictive Laye	er (if observed):							
Type: non	e							
Depth (inch						- 1	Is Hydric Soil Present?	Yes No X
	ic soil criterion is no	ot mot				_		
LIVEROL CO.								
HYDROLOGY Wetland Hydrolo							Secondary Indicator	rs (minimum of two required)
Charles a brown of the	rs (minimum of one is	s required ch	eck all that apply)				Surface Soil	
Surface Wa		s required. Cri		ned Leaves (B9	3)		Drainage Pa	
	r Table (A2)		Aquatic Fau	,	2)		Moss Trim L	
Saturation	, ,		Marl Depos					Water Table (C2)
Water Mark	• •			ulfide Odor (C	1)		Crayfish Bur	
	Deposits (B2)			nizospheres on		ts (C3)		isible on Aerial Imagery (C9)
Drift Depos				f Reduced Iron		` '	Stunted or S	tressed Plants (D1)
	or Crust (B4)		Recent Iron	Reduction in 1	Filled Soils (C6)	Geomorphic	Position (D2)
Iron Depos			Thin Muck S	Surface (C7)			Shallow Aqu	itard (D3)
Inundation	Visible on Aerial Ima	agery (B7)	Other (Expl	ain in Remarks	3)		Microtopogra	aphic Relief (D4)
Sparsely V	egetated Concave S	urface (B8)					FAC-Neutral	Test (D5)
						_		
Field Observation								
Surface Water P		esN				-		
Water Table Pres		esN						V N- V
Saturation Prese		esN	o X Depth (inc	nes):		Is wetla	and Hydrology Present?	Yes No_X_
(includes capillar		oo manitada	a well periol abates	ovious isses-t	ione) if a	lable: USC	S Man /Figure 4 Annone	liv 1) WOND Surface Mater
Describe Record	ed Data (stream gau	ige, monitorin	y well, aerial priotos, pr	evious inspect	ions), it avai	NADIE: USG	o wap (rigure 1, Append	lix 1), WDNR Surface Water Map (Figures 5A-C, Appendix 1
		ıı, aeriai p	motos irom 2000, 200	o, 2007 and 20	o io (rigures	a 4A-D, App	pendix 17, NOAA PIECIP	map (i iguies sa-o, appendix i
WETS Data (App Remarks: No we	etland hydrology in	dicators obe	erved WETS data indi	cates normal	climatic co	nditions fo	r April-June NOAA ma	p (Figure 5B) also indicates
	owever it is the dry			cated Hollian	Samuello CO		pin vanc. HOAR ma	p (ga. v v v) a.oo maloatos
nonnai range, II	CHEVEL ILIS UIE UIY	ond of the II	oma range.					

Project/Site:	29.3-Acre Site Southeast of STH 59 &	СТН Х	City/County:	Wau	kesha/Waukesha	Sampling Date: 7/21/15	
Applicant/Owner:	Kapur & As	sociates, In	c		State: WI	Sampling Point: 4	
Investigator(s):	Tina M. Myers, PWS		Section	Township	, Range:	SE 1/4 Sec 17, T6N, R19E	
Landform (hillslope,	terrace, etc.): roadside dit	ch (man-ma				, none): concave ditch	
	% Lat:					Datum:	
. , ,	e: Aztalan loam, 0-2% slopes (AzA)				WWI class	ification: S3/E2K	
•	gic conditions on the site typical for this tir		Yes X			y answers in Remarks.)	
	N Soil N or Hydrology N					tances" present? Yes X No	
		naturally pro				y answers in Remarks.)	
					, , ,	· · · · · · · · · · · · · · · · · · ·	
SUMMARY OF FI	NDINGS - Attach site map showing	sampling p	oint locations	s, transec	ts, important feature	s, etc.	
Hydrophytic Veget	ation Present? Yes X No						
1	-		19		led Area within	v N	
Hydric Soil Presen			a '	Wetland?		X No	
	y Present? Yes X No			-	onal Welland Site ID:	78-1	
	alternative procedures here or in a separ			dside ditch	that has been presen	t for many years - note that adjacent na	itive
soils are non-hyd	ric (see DP-3), so the ditch was likely e	xcavated in	upland soils.				
VEGETATION -	Use scientific names of plants.				210		
		Absolute %	Dominant	Indicator	Dominance Test worl	ksheet:	
Tree Stratum (Plot	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	Species That	
1,					Are OBL, FACW, or F	FAC: <u>2</u> (A)	
3					Total Number of Dom	ninant Species	
					Across All Strata:	(B)	
_							
					Percent of Dominant	Species That Are	
					OBL, FACW, or FAC:		
-		0%	= Total Cover		2		
Sapling/Shrub Stra	atum (Plot size: equiv to 15' radius)				Prevalence Index wo	rksheet:	
1.					Total % Cover of:	Multiply by:	
					OBL species	x 1 =	
					FACW species	x 2 =	
4						x 3 =	
					FACU species	x 4 =	
					UPL species	x 5 =	
7.					Column Totals:	(A)(B)	
		0%	= Total Cover		Prevalence Inc		
Herb Stratum (Plo	t size: equiv to 5'X 10')				Hydrophytic Vegetation	on Indicators:	
1. Typha angust		60%	Y	OBL	X Rapid Test for Hyd		
2. Phalaris aruno		40%	Y	FACW	X Dominance Test is	s >50%	
3. Lythrum salic		25%	N	OBL	Prevalence Index	is ≤3.0¹	
4. Pastinaca sati		5%	N	UPL	Morphological Ada	aptations¹ (Provide supporting data in	
5. Agrostis gigar		5%	N	FACW	Remarks or on a s		
6.					Problematic Hydro	ophytic Vegetation¹ (Explain)	
_						. , . ,	
					Indicators of hydric s	soil and wetland hydrology must be presen	ıt,
9.					unless disturbed or p	roblematic	
					Definitions of Vegetat	tion Strata:	
		-			Tree - Woody plants:	3 in. (7.6cm) or more in diameter at breast	t
12.					height (DBH), regardi	ess of height	
The same of the sa		135%	= Total Cover		Sapling/shrub - Wood	dy plants less than 3 in. DBH and greater t	than
Moody Vine Stratu	m (Plot size: equiv to 30' radius)	10070	10101 00101		3.28 (1m) tall		
1.	in (Flot size, equiv to 50 radius)				Herb - All herbaceous	s (non-woody) plants, regardless of size, a	and
0				_	woody plants less that	ın 3 28 ft tall	
					Woody vines - All woo	ody vines greater than 3 28 ft in height.	
4.							
7,		-			Is Hydrophytic Vege		
		0%	≈ Total Cover		Present?	Yes X No_	_
Remarks: (Include	photo numbers here or on a separate sh	eet.) Plant co	mmunity is a s	shallow ma	irsh in a roadside ditcl	л.	

SOIL					95	Sampling Point: 4
Profile Description: (Descr	ibe to the depth nee	ded to document the i	ndicator or confirm the	absence of in	dicators.)	
Depth	Matrix		Redox Features	3		
inches) Color (n	noist) %	Color (moist)	% Type¹	Loc²	Texture	Remarks
*See						
comment			******			
				-		
7						
Type: C=Concentration, D=	Depletion, RM=Redu	ed Matrix, MS=Masked	Sand Grains		²Location: PL=F	ore Lining, M=Matrix.
lydric Soil Indicators:		,		1	ndicators for Problematic	
Histosol (A1)		Dark Surface	(S7) (LRR R, MLRA 149		2 cm Muck (A10) (LR	•
Histic Epipedon (A2)			low Surface (S8) (LRR R	-	Coast Prairie Redox (
Black Histic (A3)			rface (S9) (LRR R, MLRA	_	_	eat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)			y Mineral (F1) (LRR K, L)		Dark Surface (S7) (LF	
Stratified Layers (A5)		Loamy Gleye			Polyvalue Below Surfa	
Depleted Below Dark S	Surface (A11)	Depleted Mat			Thin Dark Surface (SS	
Thick Dark Surface (A1	· ·	Redox Dark S	· ·			ses (F12) (LRR K, L, R)
Sandy Mucky Mineral (-		rk Surface (F7)		− .	Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S		Redox Depre		77	Red Parent Material (
Sandy Redox (S5)	,			-	Very Shallow Dark Su	rface (TF12)
Stripped Matrix (S6)				77	Mesic Spodic (TA6)	, ,
Indicators of hydrophytic ve	egetation and wetland	hydrology must be pres	ent, unless disturbed or r	oroblematic.	Other (Explain in Rem	arks)
		,				
Restrictive Layer (if observ	ea).					
Type: none Depth (inches): n/a					s Hydric Soil Present?	Yes X No
Remarks: *Soils not examin	11 (11	1 1 11 11 11				
pattern, soils are presumed				III KOW. HOW	rever, based on plant co	minumity and dramage
	, ,	0 ,	, ,			
HYDROLOGY						
etland Hydrology Indicator						(minimum of two required)
rimary Indicators (minimum Surface Water (A1)	or one is required; ch		ed Leaves (B9)		Surface Soil Co	
High Water Table (A2)		Aquatic Fau	'		Moss Trim Line	
X Saturation (A3)		Marl Deposi			Dry-Season W	
Water Marks (B1)		′ °	ulfide Odor (C1)		Crayfish Burrov	. ,
Sediment Deposits (B2)		nizospheres on Living Roc	ots (C3)		ole on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)			Reduced Iron (C4) Reduction in Tilled Soils	(C6)	X Geomorphic Po	ssed Plants (D1)
Iron Deposits (B5)			Surface (C7)	(00)	Shallow Aquita	, ,
Inundation Visible on A	erial Imagery (B7)		ain in Remarks)		Microtopograpi	
Sparsely Vegetated Co	ncave Surface (B8)				X FAC-Neutral Te	est (D5)
ield Observations						
ield Observations: urface Water Present?	YesN	lo X Depth (inc	hee).	1		
Vater Table Present?	_	lo Depth (inc		-		
aturation Present?		Depth (inc		_ Is Wetlan	d Hydrology Present?	Yes X No
ncludes capillary fringe)			E .			
Describe Recorded Data (stre		•	• • • • • • • • • • • • • • • • • • • •			•
Oata Viewer Map (Figure 3,		onotos from 2000, 2008	ع, ∠007 and 2010 (Figure	es 4A-D, Appe	naix 1), NOAA Precip Ma	ıps (rigures 5A-B, Appen
), WETS Data (Appendix 2) Remarks: *Although a soil		ined, saturation was o	bserved at the surface.	so a high wat	ter table may also be pre	sent. WETS data indicate
ormal climatic conditions				-		
	-	· · ·	•			-

Project/Site:	29.3-Acre Site Southeast of STH 59 &	CTH X	City/County:	Waul	kesha/Waukesha	Sampling Date:	7/21/15
Applicant/Owner:	Kapur & A	ssociates, Inc			State: WI	Sampling Point:	5
Investigator(s):			Section	, Township,	, Range:	SE 1/4 Sec 17, T6	N, R19E
Landform (hillslope,	terrace, etc.):	plain		Local	relief (concave, convex	<, none):	flat
	% Lat:		Long:			Datum:	
	: Aztalan Ioam, 0-2% slopes (AzA)					sification: none	
	gic conditions on the site typical for this ti	ime of year?	Yes X	No	(If needed, explain any	y answers in Remarks.)
	N Soil N or Hydrology N				Are "Normal Circums	tances" present? Y	es X No
		naturally prob				y answers in Remarks.	
_		_			, , ,	•	
SUMMARY OF FI	NDINGS - Attach site map showing	sampling po	oint locations	s, transec	ts, important feature	es, etc.	
Hydrophytic Vegeta	ation Present? Yes N	lo X	le	the Samni	led Area within		
Hydric Soil Present	? Yes N	lo X		Wetland?	Yes	No X	
1 '	Present? Yes N			If yes, option	onal Wetland Site ID:	No X	- Upland
	alternative procedures here or in a sepa					of some wetand spec	ice but does not meet
				examined i	nere due to presence o	or some wetand speci	les, but does not meet
any wetland criter	ia. Plant community is an upland scr	ub-snrub iii ui	is location.				
VEGETATION	Use scientific names of plants.						
VEGETATION -	ose scientino names of plants.	-			Dominance Test wor	rksheet	
Too a Charles (Dist	since and the 201 redicted	Absolute %	Dominant Species?	Indicator Status			
Tree Stratum (Plot	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	•	2 (/\)
1.				_	Are OBL, FACW, or		3 (A)
2.							
3				-	Total Number of Don	ninant Species	7 (D)
4.					Across All Strata:		7(B)
5		-					
6					Percent of Dominant	•	
7					OBL, FACW, or FAC	-	43% (A/B)
		0%	= Total Cover		_		
Sapling/Shrub Stra	tum (Płot size: equiv to 15' radius)				Prevalence Index wo		5.34
1. Salix bebbiana	3	50%	Υ	FACW	Total % Cover of:		iply by:
2. Lonicera X bei	lla	20%	Υ	FACU	OBL species		
3. Cornus alba		20%	ΥΥ	FACW	FACW species		
4. Cornus racem	osa	20%	ΥΥ	FAC	FAC species	x 3 =	
5. Cornus amom	um	10%	N	FACW	FACU species		
6					UPL species	x 5 =	
7.					Column Totals:	(A)	(B)
		120%	= Total Cover		Prevalence In-	dex = B/A =	
Herb Stratum (Plot	t size: equiv to 5' radius)				Hydrophytic Vegetati	on Indicators:	
1. Festuca rubra		75%	Υ	FACU	Rapid Test for Hy	drophytic Vegetation	
2. Solidago cana	densis	25%	Υ	FACU	Dominance Test i	s >50%	
3. Sonchus olera	ceus	25%	Υ	FACU	Prevalence Index	is ≤3 01	
4. Euthamia gran	ninifolia	10%	N	FAC	Morphological Ad	aptations¹ (Provide sup	porting data in
5. Asclepias syri	aca	10%	N	UPL	Remarks or on a		
6. Vitis riparia		10%	N	FAC	Problematic Hydro	ophytic Vegetation¹ (Ex	plain)
7. Agrostis gigan	itea	10%	N	FACW			
8. Taraxacum off		3%	N	FACU		soil and wetland hydrol	ogy must be present,
9. Pastinaca sati		3%	N	UPL	unless disturbed or p	problematic	
10.					Definitions of Vegeta	ition Strata:	
						3 in. (7.6cm) or more it	n diameter at breast
12.					height (DBH), regard	less of height	
		171%	= Total Cover		Sapling/shrub - Woo	dy plants less than 3 in	DBH and greater than
Moody Vine Stratu	m (Plot size: equiv to 30' radius)	-11170	, 0.14, 0070		3.28 (1m) tall.		
					Herb - All herbaceou	is (non-woody) plants, r	regardless of size, and
_					woody plants less that	an 3 28 ft tall	
•					Woody vines - All wo	oody vines greater than	3.28 ft in height.
3				_	, , , , , , , , , , , , , , , , , , , ,	,	
4,					Is Hydrophytic Veg	etation	
		0%	= Total Cover		Present?		Yes No x
Remarks: (Include	photo numbers here or on a separate sh	neet.) Plant co	mmunity is an	upland sc	rub shrub.		
1							

SUIL								Sampling Form.
Profile Descri	ption: (Describe to the	e depth need	led to document the i	ndicator or co	onfirm the a	bsence of	indicators.)	
		•						
Depth (inches)	Matrix				ox Features		Total	Remarks
(inches)	Color (moist)	%	Color (maist)	- %	Type¹	Loc²	Texture	Remarks
0-12	10YR 3/2	100%			_		silt loam	
12-24	10YR 4/3	95%	10YR 4/6	5%	C	M	silt loam	
		-			-			
					-			
-	-							
					_			
¹Tvpe: C=Con	centration, D=Depletion	, RM=Reduc	ed Matrix, MS≈Masked	Sand Grains			² Location: P	L=Pore Lining, M=Matrix.
Hydric Soil Inc		.,					Indicators for Problema	atic Hydric Soils3:
,			Dork Surface	(97) (I DD D	MI DA 1491	B)		(LRR K, L, MLRA 149B)
Histosol	1			(S7) (LRR R,				
Histic Ep	ipedon (A2)		-	elow Surface (S	, ,			ox (A16) (LRR K, L, R)
Black His	stic (A3)		Thin Dark Su	ırface (S9) (LR	RR R, MLRA	149B)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Hydrogei	n Sulfide (A4)		Loamy Muck	y Mineral (F1)	(LRR K, L)		Dark Surface (S7)	(LRR K, L, M)
	Layers (A5)		Loamy Gleve	ed Matrix (F2)			Polyvalue Below S	Surface (S8) (LRR K, L)
	Below Dark Surface (A	111	Depleted Ma				Thin Dark Surface	(S9) (LRR K, L)
	·	111/		• •				Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Redox Dark					
Sandy M	ucky Mineral (S1)			rk Surface (F7))			ain Soils (F19) (MLRA 149B)
Sandy G	leyed Matrix (S4)		Redox Depre	essions (F8)			Red Parent Materi	
Sandy R	edox (S5)						Very Shallow Dark	Surface (TF12)
Stripped	Matrix (S6)						Mesic Spodic (TAI	6)
	hydrophytic vegetation	and wetland	hydrology must be pre	sent unless dis	sturbed or p	roblematic.	Other (Explain in F	Remarks)
		and woulding	nydrology maet se pre-	30,71, 4111000 411			_	
Restrictive La	yer (if observed):							
Type: no	one							
Depth (inc	ches): n/a						Is Hydric Soil Present	? Yes No X
Domarke: Hue	Iric soil criterion is no	t met						
riomarito. Try								
HYDROLOG	SY							
Wetland Hydro	logy Indicators:						Secondary Indicat	ors (minimum of two required)
Primary Indicat	tors (minimum of one is	required: ch	eck all that apply)				Surface So	il Cracks (B6)
	Water (A1)			ned Leaves (B	9)		Drainage P	atterns (B10)
	ter Table (A2)		Aquatic Fa	una (B13)				Lines (B16)
Saturatio	n (A3)		Marl Depos	sits (B15)				Water Table (C2)
Water Ma	arks (B1)		Hydrogen S	Sulfide Odor (C	(1)			ırrows (C8)
Sedimen	t Deposits (B2)		Oxidized R	hizospheres or	n Living Roo	ts (C3)		Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)			of Reduced Iron				Stressed Plants (D1)
Algal Ma	t or Crust (B4)		and the same of th	Reduction in	Tilled Soils ((C6)		c Position (D2)
	osits (B5)			Surface (C7)			Shallow Ad	
Inundation	on Visible on Aerial Ima	gery (B7)	Other (Exp	lain in Remark	s)			raphic Relief (D4)
Sparsely	Vegetated Concave St	urface (B8)					FAC-Neutr	al Test (D5)
						-		
Field Observa								
Surface Water			o X Depth (in					
Water Table P		esN				- In 18/a4	land Hydrology Present	? Yes No X
Saturation Pre-		esN	o X Depth (in	cnes):		- Is wet	lianu nyurology Fresem	1 1es 1toX_
(includes capil	lary fringe)		a wall sanial abatas a	viaua inanaa	tions) if ava	ilable: USC	29 Man (Figure 1 Anner	ndix 1), WDNR Surface Water
Describe Reco	rded Data (stream gau	ge, monitorin	g well, aerial priotos, p	revious ilispec	2010 (Figure	e 4A-D Ar	nondix 1) NOAA Preci	Map (Figures 5A-C, Appendix 1
		ix 1), aeriai p	motos from 2000, 200	15, 2007 and 2	o io (rigule	:5 4A-D, A	ppendix 1), NOAA i recij	map (i iguico on-o, rippenant
WETS Data (A	wotland bydrology in	dicatore obc	anied WETS data ind	icates normal	I climatic co	onditions f	or April-June. NOAA m	ap (Figure 5B) also indicates
	wettand nydrology ind , however it is the dry			reaces Holman	. Jimano ot			
normar range,	, nowever it is the try	end of the II	omai range.					

Project/Site: 29.3-Acre Site Southeast of STH 59	&CTH X	City/County:	Wauk	kesha/Waukesha	Sampling Date:	7/21/15
Applicant/Owner: Kapur &	Associates, In	c.			Sampling Point:	6
Investigator(s): Tina M. Myers, PWS		Section	, Township,	Range:	SE 1/4 Sec 17, T	6N, R19E
Landform (hillslope, terrace, etc.): very sli	ght depression		Local	relief (concave, convex	, none): ven	y slightly concave
Slope (%):0% Lat:					Datum:	
Soil Map Unit Name: Aztalan loam, 0-2% slopes (AzA)					sification: none	
Are climatic/hydrologic conditions on the site typical for this		Yes X	No	(If needed, explain any	y answers in Remark	s.)
Are Vegetation N Soil N or Hydrology N	significantly	disturbed?		Are "Normal Circums	tances" present?	Yes X No
Are Vegetation N Soil N or Hydrology N				(If needed, explain any	y answers in Remark	s.)
SUMMARY OF FINDINGS - Attach site map showing	ng sampling p	oint locations	s, transect	ts, important feature	es, etc.	
Hydrophytic Vegetation Present? Yes	No X	le.	the Sample	ed Area within		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No X	13	•		No	X
Wetland Hydrology Present? Yes				onal Wetland Site ID:		e - Upland
Remarks: (Explain alternative procedures here or in a sep		ata point was			anression in this lo	cation and presence of
some reed canary grass.	barate report.)	Data point was	exammed	Here ade to a subtle a	epression in this to	cation and presence of
Johns 1664 Barrery grader						
VEGETATION - Use scientific names of plants.						
	Ab lub - 0/	Deminent	Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: equiv to 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Number of Dominant		
1				Are OBL, FACW, or 8	•	1 (A)
2.						` '
		-		Total Number of Don	ninant Species	
4.				Across All Strata:	mant opcoles	2 (B)
5.		-			_	. ,
				Percent of Dominant	Species That Are	
6.		- 4		OBL, FACW, or FAC		50% (A/B)
*	0%	= Total Cover			_	
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)	- 070	7010700701		Prevalence Index wo	rksheet:	
				Total % Cover of:		ultiply by:
1.				OBL species	0 x 1 =	0
2.		-		FACW species	50 x 2 =	
3		-		FAC species	20 x 3 =	
4				FACU species	95 x 4 =	
5				UPL species	5 x5=	25
6				Column Totals:	180 (A)	565 (B)
7,	0%	= Total Cover		Prevalence Inc		3.14
Herb Stratum (Plot size: equiv to 5' radius)	- 070	70101 00101		Hydrophytic Vegetation	on Indicators:	
1. Poa pratensis	80%	ΥΥ	FACU	, , ,	drophytic Vegetation	
2. Phalaris arundinacea	50%	Y	FACW	Dominance Test is		
3. Euthamia graminifolia	20%	N	FAC	Prevalence Index		
4. Agrostis gigantea	10%	N	FACW	Morphological Ada	aptations¹ (Provide s	upporting data in
5. Festuca rubra	10%	N	FACU	Remarks or on a		apporting data in
6 Pastinaca sativa	5%	N	UPL		ophytic Vegetation¹ (E	Explain)
7. Lotus corniculatus	5%	N N	FACU		, ,	, ,
				¹Indicators of hydric s	soil and wetland hydr	ology must be present,
				unless disturbed or p	roblematic	
40				Definitions of Vegeta	tion Strata:	
11,		-		Tree - Woody plants	3 in. (7,6cm) or more	e in diameter at breast
12.		-		height (DBH), regard	less of height	
	180%	= Total Cover			dy plants less than 3	in. DBH and greater than
Woody Vine Stratum (Plot size: equiv to 30' radius)				3.28 (1m) tall		
1.						, regardless of size, and
2.				woody plants less that	an 3.28 ft tall	
3,		-		Woody vines - All wo	ody vines greater tha	an 3 28 ft in height.
4.						
		Tatal Com		Is Hydrophytic Vege	etation	Von No V
	0%	= Total Cover		Present?		Yes No X
Remarks: (Include photo numbers here or on a separate	sheet.) Plant co	ommunity is a	degraded "	'old-field" that was pr	eviously farmed. Fa	arming ended sometime
between 2000 and 2005.						
US Army Corps of Engineers				Northcentral and N	Northeast Region - V	ersion 2.0

SOIL							Sampling Point: 6
Profile Descri	ption: (Describe to th	e depth needed	I to document the in	dicator or confirm the al	bsence of indi	cators.)	
Depth	Matrix			Redox Features			
(inches)		%	Color (maint)	% Type¹	Loc²	Texture	Remarks
	Color (moist)		Color (moist)	70 Туре		silt loam	romano
0-9	10YR 2/1	100%				silt loam	
9-24	10YR 4/3	100%				SIIL IOAIII	
-	-						- 1
	-						
	-						
	-						
	-						
	_						
	-						
¹Type: C=Con	centration, D=Depletio	n, RM=Reduced	Matrix, MS=Masked	Sand Grains.			L=Pore Lining, M=Matrix.
Hydric Soil Inc	dicators:				Ind	dicators for Problema	tic Hydric Soils³:
Histosol ((A1)	_	Dark Surface	(S7) (LRR R, MLRA 149E	3)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	ipedon (Á2)		Polyvalue Bel	ow Surface (S8) (LRR R,	MLRA 149B	Coast Prairie Red	ox (A16) (LRR K, L, R)
Black His	stic (A3)	_	Thin Dark Sur	face (S9) (LRR R, MLRA	149B)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)	_	Loamy Mucky	Mineral (F1) (LRR K, L)		Dark Surface (S7)	(LRR K, L, M)
Stratified	Layers (A5)	-	Loamy Gleyed	1 Matrix (F2)		Polyvalue Below S	urface (\$8) (LRR K, L)
Depleted	Below Dark Surface (A11)	Depleted Matr	rix (F3)		Thin Dark Surface	(S9) (LRR K, L)
Thick Da	rk Surface (A12)	-	Redox Dark S	urface (F6)		Iron-Manganese M	lasses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)	-	Depleted Dark	Surface (F7)		Piedmont Floodpla	ain Soils (F19) (MLRA 149B)
I— ·	eyed Matrix (S4)	-	Redox Depres	ssions (F8)		Red Parent Materi	al (TF2)
_	edox (S5)	-				Very Shallow Dark	Surface (TF12)
	Matrix (S6)					Mesic Spodic (TA6	3)
-	, ,	and wetland hyd	drology must be prese	ent, unless disturbed or pr	oblematic.	Other (Explain in F	Remarks)
						_	
	yer (if observed):						
Type: no			_		le	Hydric Soil Present	? Yes No X
	thes): n/a		_		10	riyano com ricocina	
Remarks: Hyd	ric soil criterion is n	ot met.					
-							
HYDROLOG	Υ						
Wetland Hydro	logy Indicators:					Secondary Indicate	ors (minimum of two required)
-	ors (minimum of one i	s required: check	k all that apply)			Surface So	il Cracks (B6)
Surface V	Vater (A1)		Water-Staine	ed Leaves (B9)			atterns (B10)
	er Table (A2)		Aquatic Faur	' '		Moss Trim	` '
Saturatio	* *		Marl Deposit	s (B15) Ilfide Odor (C1)		Crayfish Bu	Water Table (C2)
— Water Ma	t Deposits (B2)			izospheres on Living Root	ts (C3)		Visible on Aerial Imagery (C9)
	osits (B3)			Reduced Iron (C4)	.0 (00)		Stressed Plants (D1)
	or Crust (B4)			Reduction in Tilled Soils (6	C6)		c Position (D2)
Iron Depo			Thin Muck S	, ,		Shallow Aq	, ,
Inundatio	n Visible on Aerial Ima	igery (B7)	Other (Expla	in in Remarks)			raphic Relief (D4)
Sparsely	Vegetated Concave S	urface (B8)				FAC-Neutra	ar rest (D5)
Field Observa	tions:						
Surface Water		es No	X Depth (incl	nes):			
Water Table Pr		es No	X Depth (incl	nes):			
Saturation Pres		esNo	X Depth (incl	nes):	Is Wetland	Hydrology Present	? Yes No_X
(includes capill	ary fringe)			udaya laanaatiana\ if ayai	Johla: USCS M	on (Figure 1 Appear	div 1) WDNP Surface Water
Describe Recoi	rded Data (stream gau	.ge, monitoring w	veir, aeriai priotos, pre	: 2007 and 2010 (Figures	RAA-D Annen	ap (rigure 1, Appel div 1) ΝΩΔΔ Precin	dix 1), WDNR Surface Water Maps (Figures 5A-C, Appendix
1). WETS Data	(Appendix 2)						
Remarks: No	wetland hydrology in	dicators observ	ed. WETS data indic	ates normal climatic co	nditions for Ap	pril-June. NOAA m	ap (Figure 5B) also indicates
	however it is the dry						

Project/Site:	29.3-Acre Site Southeast of STH 59 8		City/County	:Wau	kesha/Waukesha		
	Kapur & A	ssociates, In	C.			Sampling Point:	
Investigator(s):	Tina M. Myers, PWS		Section		, Range:		
		llslope			relief (concave, convex		
	3% Lat:		Long:			Datum:	
	e: Warsaw loam, 2-6% slopes (WeB)					ification: none	
•	ogic conditions on the site typical for this t			No	(If needed, explain any		
Are Vegetation	N Soil N or Hydrology N					tances" present? Ye	s _X_No
Are Vegetation	N Soil N or Hydrology N	_naturally pro	blematic?		(If needed, explain any	y answers in Remarks.)	
SUMMARY OF F	INDINGS - Attach site map showing	ı sampling p	oint location	s, transec	ts, important feature	es, etc.	
Hydrophytic Veget	tation Present? YesN	lo X	Is	the Samp	led Area within		
Hydric Soil Preser	nt? YesN	lo X				No X	
1 '	y Present? Yes N			If yes, opti	onal Wetland Site ID:		Upland
	n alternative procedures here or in a sepa		Old-field plant				
Remarks. (Explain	Taiternative procedures here of in a sepa	rate report.	Jid-ileid plant	Commissions	- previously lamica.		
VEGETATION -	Use scientific names of plants.						
		At 1 - 0/	Daminant	Indicator	Dominance Test work	ksheet:	
Tree Stratum (Plot	t size: equiv to 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status			
			Ореско.	Oldido	Number of Dominant Are OBL, FACW, or F	•	0 (A)
_			-		AIC OBE, TAOV, OF	7.0.	(1)
2			-	-			
					Total Number of Dom	ninant Species	2 (B)
4					Across All Strata:		2 (B)
5.							
6			-		Percent of Dominant		
7.					OBL, FACW, or FAC:		0 %(A/B)
		0%	= Total Cover				
Sapling/Shrub Stra	atum (Plot size; equiv to 15' radius)				Prevalence Index wo		
1. Lonicera X be	ella	3%	N	FACU	Total % Cover of:	Multip	oly by:
2					OBL species	x 1 =	
3.					FACW species	x 2 =	
					FAC species	x 3 =	
_					FACU species		
					UPL species	x 5 =	
7.					Column Totals:		(B)
		3%	= Total Cover		Prevalence Inc		
Herb Stratum (Plo	ot size: equiv to 5' radius)				Hydrophytic Vegetation	on Indicators:	
1. Poa pratensis		80%	Υ	FACU	Rapid Test for Hyd	drophytic Vegetation	
2. Solidago cana		60%	Y	FACU	Dominance Test is	s >50%	
3. Euthamia grai		20%	N	FAC	Prevalence Index	is ≤3.0¹	
4. Asclepias syr		20%	N	UPL	Morphological Ada	aptations¹ (Provide supp	orting data in
5. Sonchus olera		10%	N	FACU	Remarks or on a s		orting data in
6. Taraxacum of		10%	N	FACU		phytic Vegetation¹ (Exp	lain)
7 Phalaris arun		10%	N	FACW		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
-		5%		FACW	Indicators of hydric s	oil and wetland hydrolog	gy must be present,
8. Solidago giga		3%	N	FAC	unless disturbed or p		, .
9. Geum aleppic		·			Definitions of Vegetat	tion Strata:	
10. Pastinaca sati		3%	N	UPL	•	3 in, (7,6cm) or more in	diameter at breast
		-			height (DBH), regard		
12						dy plants less than 3 in.	DBH and greater than
		221%	= Total Cover		3 28 (1m) tall	ly plants less than 5 m.	DDIT and greater than
Woody Vine Stratu	ım (Plot size: equiv to 30' radius)				. , ,		
1					woody plants less that	s (non-woody) plants, re up 3.28 ft tall	gardiess of Size, and
2.					, , , , , , , , , , , , , , , , , , , ,		00011
3					Woody vines - All woo	ody vines greater than 3	28 ft in height.
4					Is Hydrophytic Vege	tation	
		0%	= Total Cover		Present?		Yes No X
Demande (L. 1.)				400004			
	e photo numbers here or on a separate sh	ieet j Plant co	orrimunity is a c	uegraded "	olu-rielu (nat was pro	eviously larmed. Fam	ing ended sometime
between 2000 and	u 2005.						

Profile Description	n: (Describe to th	e depth neede	ed to document the i	ndicator or co	onfirm the ab	sence of i	indicators.)	
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-20	10YR 3/2	100%					silt loam	
20-24	10YR 2/1	100%					silt loam	
		-			_			
				-	-			
				->				
			-	-		-		
								-
					-			
		4						D. I. S. M. M. I.
		n, RM=Reduce	d Matrix, MS=Masked	Sand Grains.				=Pore Lining, M=Matrix
Hydric Soil Indica	tors:						Indicators for Problema	
Histosol (A1)			Dark Surface	e (S7) (LRR R,	MLRA 149B	3)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Epiped	on (A2)		Polyvalue Be	elow Surface (S	88) (LRR R, I	MLRA 1491	B Coast Prairie Redo	ox (A16) (LRR K, L, R)
Black Histic (A3)		Thin Dark Su	ırface (S9) (LR	R R, MLRA	149B)	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
Hydrogen Su	ifide (A4)		Loamy Muck	y Mineral (F1)	(LRR K, L)		Dark Surface (S7)	(LRR K, L, M)
Stratified Lay	ers (A5)		Loamy Gleye	ed Matrix (F2)			Polyvalue Below S	urface (S8) (LRR K, L)
I— ·	ow Dark Surface (A11)	Depleted Ma				Thin Dark Surface	(S9) (LRR K, L)
Thick Dark S		,	Redox Dark	Surface (F6)			Iron-Manganese M	asses (F12) (LRR K, L, R)
-	Mineral (S1)		-	rk Surface (F7))		Piedmont Floodpla	in Soils (F19) (MLRA 149B)
Sandy Gleyer	, ,		Redox Depre		,		Red Parent Materia	, ,,
Sandy Redox	. ,		Rodox Bopic	30010110 (1 0)			Very Shallow Dark	Surface (TF12)
	, ,						Mesic Spodic (TA6	
Stripped Matr		and make a land	uduala au vocat ha area	ant unloss die	turbad or ne	ablamatia	Other (Explain in R	
		and wetland n	ydrology must be pres	sent, uniess uis	sturbed or pro	objettiatic,	— Other (Explain in)	iomano,
Restrictive Layer	(if observed):							
Type: none								
Depth (inches): n/a						Is Hydric Soil Present	? Yes No X
Remarks: Hydric s	soil criterion is n	ot met.						
HYDROLOGY								
Wetland Hydrology	Indicators						Secondary Indicate	ors (minimum of two required)
Primary Indicators		e required: che	ck all that annly)					I Cracks (B6)
Surface Water		s required, crie		ned Leaves (B	9)			atterns (B10)
High Water T	, ,		Aquatic Fat		-,		Moss Trim I	
Saturation (A			Marl Depos					Water Table (C2)
Water Marks				Sulfide Odor (C			Crayfish Bu	
Sediment De				hizospheres or		s (C3)		/isible on Aerial Imagery (C9)
Drift Deposits				f Reduced Iron		20)		Stressed Plants (D1)
Algal Mat or (Reduction in Surface (C7)	Tilled Soils (C	J6)	Shallow Aqu	Position (D2)
Iron Deposits	(B5) sible on Aerial Ima	ageny (B7)		ain in Remarks	z)			aphic Relief (D4)
	etated Concave S			am in remand	-/		FAC-Neutra	
oparout) vag		4,,400 (50)						
Field Observation	s:		161					
Surface Water Pres		esNo		,				
Water Table Prese		es No				le Met	and Hudrology Dece*	? Yes No X
Saturation Present		es No	X Depth (inc	ches):		is weti	and Hydrology Present	resNO_X
(includes capillary f	Data (etroam nai	ae monitorina	well aerial photos pr	revious inspect	ions) if avail	lable: USG	S Man (Figure 1, Appen	dix 1), WDNR Surface Water
Data Viewer Man	Figure 3. Append	dix 1). aerial pl	notos from 2000. 200	5. 2007 and 2	010 (Figures	4A-D, Ap	pendix 1), NOAA Precip	Maps (Figures 5A-C, Appendix
1). WETS Data (An	pendix 2)							
Remarks: No wetl	and hydrology in			icates normal	climatic cor	nditions fo	or April-June. NOAA ma	ap (Figure 5B) also indicates
normal range, hov	vever it is the dry	end of the no	rmal range.					

SOIL

Sampling Point:

Project/Site:	29.3-Acre Site Southeast of STH 59 8	CTH X	City/County:	Wau	kesha/Waukesha	Sampling Date:	7/21/15
Applicant/Owner:	Kapur & /	Associates, Inc			State: WI		8
Investigator(s):	Tina M. Myers, PWS		Section	, Township	, Range:	SE 1/4 Sec 17, Te	3N, R19E
Landform (hillslope	, terrace, etc_): wetlan	d depression			relief (concave, convex	, none):	concave
Slope (%):0)% Lat:		Long:			Datum:	
Soil Map Unit Name	e: Navan silt loam (Na)					ification: S3/E2K	
	ogic conditions on the site typical for this			No	(If needed, explain any	answers in Remarks	š.)
Are Vegetation	N Soil N or Hydrology N				Are "Normal Circumst	tances" present?	Yes X No
Are Vegetation	N Soil N or Hydrology N	_ naturally prob	lematic?		(If needed, explain any	, answers in Remarks	3_)
	mpnico Arriba de la constanta				to lunnautant facture	a ata	
SUMMARY OF F	INDINGS - Attach site map showing	g sampling po	oint locations	s, transec	ts, important feature	s, etc.	
Hydrophytic Veget	tation Present? Yes X	No	la la	the Campi	led Area within		
Hydric Soil Preser				Wetland?	Yes	X No	
1 '	y Present? Yes X		"		onal Wetland Site ID:		W-2
	n alternative procedures here or in a sepa	-				w march/chruh cari	r wotland. The
		arate report.) Fr	esn (wet) mea	adow zone	transitioning to snaiic)W marsii/siirub can	wettallu. The
hydroperiod is in	iterimiterit nere.						
VECETATION	Line exicutific names of plants						
VEGETATION -	Use scientific names of plants.				I		
		Absolute %	Dominant	Indicator	Dominance Test worl		
Tree Stratum (Plo	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	•	. (4)
1,					Are OBL, FACW, or F	-AC:	(A)
2							
					Total Number of Dom	ninant Species	6 (D)
4					Across All Strata:	_	(B)
5				-			
				_	Percent of Dominant	•	67% (A/B)
7.					OBL, FACW, or FAC:	·	(A/B)
	(D) to the defined to a	0%	= Total Cover		Prevalence Index wo	rkahaat:	
	atum (Plot size: equiv to 15' radius)				Total % Cover of:		Itiply by:
_					OBL species		парту Бу.
				-	FACIAL ananina		
					1		
_					FACU species		
					UPL species	x 5 =	
7					Column Totals:	(A)	(B)
/		0%	= Total Cover	-	Prevalence Inc		(-/
Horb Stratum /Dla	ot size: equiv to 5' radius)	- 070	- rotal cover		Hydrophytic Vegetation		
1. Euthamia gra	,	30%	Υ	FAC	1	drophytic Vegetation	
2. Solidago cana		25%	<u>'</u>	FACU	X Dominance Test is		
3. Phalaris arun		25%	<u> </u>	FACW	Prevalence Index		
		20%	N	FACW			innorting data in
5. Sonchus oler		10%	N	FACU	Remarks or on a s	aptations¹ (Provide su separate sheet)	pporting data in
6. Typha angust		5%	N	OBL		ophytic Vegetation¹ (E	(xplain)
7. Stachys tenui		5%	N	FACW	_	·p··/	.,,
8. Cornus alba	nona -	5%	N	FACW	Indicators of hydric s	oil and wetland hydro	ology must be present,
9. Salix discolor		5%	N	FACW	unless disturbed or p	roblematic.	
10.		078			Definitions of Vegeta	tion Strata:	
					Tree - Woody plants	3 in. (7.6cm) or more	in diameter at breast
12.					height (DBH), regardl	ess of height	
		130%	= Total Cover		Sapling/shrub - Wood	dy plants less than 3 i	in, DBH and greater than
Woody Vine Strati	um (Plot size: equiv to 30' radius)				3.28 (1m) tall.		
1.	and the state of t				Herb - All herbaceous	s (non-woody) plants,	regardless of size, and
					woody plants less that	in 3.28 ft tall	
3		-			Woody vines - All wo	ody vines greater that	n 3 28 ft in height.
4					1		
		601	- Total O	-	Is Hydrophytic Vege	tation	Yes X No
			= Total Cover		Present?	tb. II	
Remarks: (Include	e photo numbers here or on a separate s	heet.) Plant cor	mmunity is a f	rresh (wet)	meadow - transition z	one to snallow mars	in.

SOIL								Sampling Point: 8
Profile Descri	ption: (Describe to t	he depth nee	ded to document the i	ndicator or co	nfirm the a	bsence of	indicators.)	
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-18	10YR 2/1	100%					silt loam	
18-24	10YR 4/2	98%	10YR 5/6	2%	С	М	si cl loam	
Type: C=Con	centration, D=Depletion	on, RM=Redu	ced Matrix, MS=Masked	Sand Grains			² Location: F	L=Pore Lining, M=Matrix
lydric Soil Inc	dicators:						Indicators for Problem	atic Hydric Soils³:
Histosol ((A1)		Dark Surface	(S7) (LRR R,	MLRA 149	B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Histic Ep	ipedon (A2)		Polyvalue Be	low Surface (S	88) (LRR R,	MLRA 149	OB Coast Prairie Rec	lox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Su	ırface (S9) (LR	R R, MLRA	149B)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Hydroger	Sulfide (A4)		Loamy Muck	y Mineral (F1)	(LRR K, L)		Dark Surface (S7) (LRR K, L, M)
Stratified	Layers (A5)		Loamy Gleye	ed Matrix (F2)			Polyvalue Below	Surface (S8) (LRR K, L)
Depleted	Below Dark Surface	(A11)	Depleted Ma	trix (F3)			Thin Dark Surface	e (S9) (LRR K, L)
X Thick Da	rk Surface (A12)		Redox Dark	Surface (F6)			Iron-Manganese	Masses (F12) (LRR K, L, R)
Sandy M	ucky Mineral (S1)		Depleted Dar	rk Surface (F7))			ain Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix (S4)		Redox Depre	essions (F8)			Red Parent Mater	
Sandy Re	edox (S5)						Very Shallow Dar	k Surface (TF12)
Stripped	Matrix (S6)						Mesic Spodic (TA	•
³ Indicators of I	nydrophytic vegetation	n and wetland	hydrology must be pres	ent, unless dis	sturbed or p	roblematic.	Other (Explain in	Remarks)
Restrictive La	yer (if observed):							
Type: no	ne							
Depth (inc	thes): n/a					- 11	Is Hydric Soil Presen	t? Yes X No
HYDROLOG							Socondan/Indica	tors (minimum of two required)
	logy Indicators: ors (minimum of one	ia roquirad: ob	ook all that apply)				-	oil Cracks (B6)
	Vater (A1)	is required. Cr		ned Leaves (B9	9)			Patterns (B10)
	er Table (A2)		Aquatic Fau		•			Lines (B16)
Saturation	` '		Marl Depos					n Water Table (C2)
Water Ma				sulfide Odor (C		te (C3)		urrows (C8) Visible on Aerial Imagery (C9)
Sediment	t Deposits (B2)			nizospheres on f Reduced Iron		ils (C3)		Stressed Plants (D1)
	or Crust (B4)			Reduction in		(C6)		ic Position (D2)
Iron Depo	sits (B5)			Surface (C7)		,		quitard (D3)
	n Visible on Aerial Im		Other (Expla	ain in Remarks	s)			graphic Relief (D4)
Sparsely	Vegetated Concave S	Surface (B8)					X FAC-Neuti	al Test (D5)
Field Observat	tions:					1		
Surface Water		res 1	No X Depth (inc	ches):		_		
Water Table Pr			No X Depth (inc			Š		10 V V N-
Saturation Pres		/es	No X Depth (inc	ches):		- Is Wet	tland Hydrology Presen	t? Yes X No
(includes capilla Describe Reco	ary milige) ded Data (etream da)	uge monitorir	ng well perial photos pr	evious inspect	tions) if ava	ilable: USC	3S Man (Figure 1, Appe	ndix 1), WDNR Surface Water
Data Viewer M	ap (Figure 3, Appen	dix 1), aerial	photos from 2000, 200	5, 2007 and 2	010 (Figure	s 4A-D, Ap	ppendix 1), NOAA Preci	p Map (Figure 5, Appendix 1),
WETS Data (A)	opendix 2)	aconal in th	is location Boundary	was hasod on	shift in nis	nt commi	inity presence of hydri	c soils, and best professional
udament. WE	TS data indicates n	ormal climati	c conditions for April-	June. NOAA	map (Figur	e 5B) also	indicates normal range	e, however it is the dry end of the
normal range.	datadioatoo III	a. Jimidu			(r. 1341	,		P
3								

Project/Site:	29.3-Acre Site Southeast of STH 59 &	CTH X	City/County:	Waul	kesha/Waukesha	Sampling Date:	7/21/1	
Applicant/Owner:	Kapur & A	ssociates, Inc			State: WI	Sampling Point:		
nvestigator(s):	Tina M. Myers, PWS		Section		Range:			
andform (hillslope	, terrace, etc.): wetland	depression			relief (concave, convex	(, none):	concave	
)% Lat:		Long:			Datum:		
	e: Navan silt loam (Na)				WWI class			
	ogic conditions on the site typical for this t			No				
Are Vegetation	N Soil N or Hydrology N				Are "Normal Circums	•	Yes X No	o
Are Vegetation _	N Soil N or Hydrology N	naturally prob	lematic?		(If needed, explain any	y answers in Remari	(S.)	
SUMMARY OF F	INDINGS - Attach site map showing	sampling po	int locations	s, transect	ts, important feature	es, etc.		
Hydrophytic Vege								
		-		the Sampi Wetland?	ed Area within Yes	X No		
Hydric Soil Preser			4		onal Wetland Site ID:		W-2	
Remarks: (Explair	n alternative procedures here or in a sepa	rate report.) Et	ige of shallov	v marsh/sh	rub carr wetland.			
VEGETATION -	Use scientific names of plants.							
		Absolute %	Dominant	Indicator	Dominance Test work	ksheet:		
Tree Stratum (Plo	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant			
1,					Are OBL, FACW, or I	FAC:	(A	1)
					Total Number of Don	ninant Species		
4					Across All Strata:	_	5 (B	i)
5								
6.					Percent of Dominant	•		
7.					OBL, FACW, or FAC	L —	80% (A	VB)
		0%	= Total Cover					
	atum (Plot size: equiv to 15' radius)			E 4 6044	Prevalence Index wo		Altaha ban	
1. Salix bebbian			Y	FACW	Total % Cover of:		ultiply by:	
					OBL species FACW species			
				-				
_					FACU species	x 4 =		
				-	UPL species	x 5 =		
					Column Totals:	(A)	(B	3)
-		25%	= Total Cover		Prevalence Inc			
Herb Stratum (Pk	ot size: equiv to 5' radius)				Hydrophytic Vegetation	on Indicators:		
1. Phalaris arun	·	60%	Υ	FACW	Rapid Test for Hyd	drophytic Vegetation	J	
2 Solidago giga		30%	Υ	FACW	X Dominance Test is	s >50%		
3. Typha angus		30%	Υ	OBL	Prevalence Index	is ≤3.01		
4. Solidago can	adensis	30%	Υ	FACU	Morphological Ada	aptations¹ (Provide s	supporting data is	n
5. Euthamia gra	minifolia	5%	N	FAC	Remarks or on a s	separate sheet)		
6. Carex stricta		5%	N	OBL	Problematic Hydro	ophytic Vegetation¹ (Explain)	
7. Stachys tenu	ifolia	5%	N	FACW		9 1 - 1 - 1 - 1 - 1		
8,				_	Indicators of hydric s unless disturbed or p		rology must be p	resent,
			-					
					Definitions of Vegeta Tree - Woody plants		e in diameter of	hraast
					height (DBH), regard		o in Giannetei at	Dicast
12		-	7	-	Sapling/shrub - Wood	-	in DBH and on	eater than
Constitution of the consti		165%	= Total Cover		3_28 (1m) tall	ay pianto leos tilali o	Don't dild git	Carel HIGH
	um (Plot size: equiv to 30' radius)				Herb - All herbaceous	s (non-woody) plants	s regardless of s	size, and
1.				-	woody plants less that		-, , _ g _ , a, c o o o i v	,
				-	Woody vines - All wo		an 3.28 ft in heic	aht.
3				-	7,000 7 WO			
4.				-	Is Hydrophytic Vege	etation		
			= Total Cover		Present?		Yes X	No
Remarks: (Include	e photo numbers here or on a separate sl	heet.) Data poi	nt is located o	on the edge	e of a mixed shallow n	narsh/shrub carr co	mmunity.	

SOIL								Sampling Point: 9
Profile Descri	ption: (Describe to th	e depth need	ed to document the in	ndicator or co	onfirm the a	bsence of	indicators.)	
Depth	Matrix			Rede	ox Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-12	10YR 2/1	100%					muck	
12-20	10YR 4/2	90%	10YR 5/6	10%	C	M	si cl loam	-
					_			
	-				-	_		
					-			
	-				-			
	-				-	_		
				-				
¹Type: C=Con	centration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Masked	Sand Grains.	_		²Location: Pl	_=Pore Lining, M=Matrix.
Hydric Soil Inc							Indicators for Problema	tic Hydric Soils³:
Histosol ((A1)		Dark Surface	(S7) (LRR R,	MLRA 149	3)	2 cm Muck (A10) (LRR K, L, MLRA 149B)
X Histic Epi	ipedon (A2)		Polyvalue Be	low Surface (S8) (LRR R,	MLRA 149	OB Coast Prairie Redo	ox (A16) (LRR K , L , R)
Black His	etic (A3)		Thin Dark Su	ırface (S9) (LF	RR R, MLRA	149B)	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)
Hydroger	n Sulfide (A4)		Loamy Muck	y Mineral (F1)	(LRR K, L)		Dark Surface (S7)	•
Stratified	Layers (A5)		Loamy Gleye	ed Matrix (F2)				surface (S8) (LRR K, L)
X Depleted	Below Dark Surface (A11)	Depleted Ma				Thin Dark Surface	• • • • • • • • • • • • • • • • • • • •
	rk Surface (A12)		Redox Dark					lasses (F12) (LRR K, L, R)
-	ucky Mineral (S1)			rk Surface (F7)		Red Parent Materi	ain Soils (F19) (MLRA 149B)
-	eyed Matrix (S4)		Redox Depre	essions (F6)			Very Shallow Dark	· · ·
	edox (S5) Matrix (S6)						Mesic Spodic (TA6	·
		and wetland I	nydrology must be pres	sent unless di	sturbed or pr	oblematic	-	·
		and wouldness	nyararagy maar ba proc	70711, 4111000 41			_	
	yer (if observed):							
Type: no	ches): n/a						Is Hydric Soil Present	? Yes X No
	ric soil criterion is m	ont .						
remarks. Trya	inc son criterion is in							
HYDROLOG	SY							
Wetland Hydro	logy Indicators:							ors (minimum of two required)
	ors (minimum of one i	s required: ch		- d I (D	0)			il Cracks (B6) atterns (B10)
X High Wat	Vater (A1) ter Table (A2)		Aquatic Fau	ned Leaves (B una (B13)	9)			Lines (B16)
X Saturatio			Marl Depos					Water Table (C2)
Water Ma				Sulfide Odor (C			Crayfish Bu	
	t Deposits (B2) osits (B3)			hizospheres or f Reduced Iron		ts (C3)		Visible on Aerial Imagery (C9) Stressed Plants (D1)
	t or Crust (B4)			Reduction in		C6)		c Position (D2)
Iron Depo	osits (B5)		Thin Muck	Surface (C7)			Shallow Aq	
	n Visible on Aerial Ima		Other (Expl	ain in Remark	s)		X FAC-Neutra	raphic Relief (D4)
Sparsely	Vegetated Concave S	ипасе (ва)					_ A I AC-Neutra	ii Test (D3)
Field Observa	tions:							
Surface Water		esN			40	-1		
Water Table Pr Saturation Pres		es X N			0	Is Wet	land Hydrology Present	? Yes X No
(includes capill	ary fringe)		7					
Describe Reco	rded Data (stream gau	ige, monitoring	g well, aerial photos, pr	revious inspec	tions), if ava	ilable: USG	SS Map (Figure 1, Apper	ndix 1), WDNR Surface Water
		lix 1), aerial p	hotos from 2000, 200	5, 2007 and 2	2010 (Figure	s 4A-D, Ap	pendix 1), NOAA Precip	Maps (Figure 5A-C, Appendix 1),
WETS Data (A Remarks: WE	ppenaix 2) TS data indicates noi	mal climatic	conditions for April-J	une. NOAA	map (Figure	5B) also i	indicates normal range,	however it is the dry end of the
normal range.			- T D D D D D D D.					

Project/Site: 29.3-Acre Sit	e Southeast of STH 59 8	RCTH X	City/County	: Wau	kesha/Waukesha	Sampling Date:	7/21/15
pplicant/Owner:	Kapur & A	ssociates, In	c		State: WI	Sampling Point:	10
vestigator(s):	Tina M. Myers, PWS		Section		, Range:	SE 1/4 Sec 17, T6N, R1	
andform (hilfslope, terrace, etc.):	hi	llslope		Local	relief (concave, convex	x, none): co	nvex
lope (%): <u>2-3%</u> Lat: _			Long:			Datum:	
oil Map Unit Name: Fox Ioam,	2-6% slopes (FoB)				WWI class	sification: S3/E2K	
re climatic/hydrologic conditions o	n the site typical for this t	ime of year?	Yes X	No	(If needed, explain an	y answers in Remarks.)	
re Vegetation N Soil N	or Hydrology N	_significantly	disturbed?		Are "Normal Circums	stances" present? Yes	X No
re Vegetation N Soil N	or Hydrology N	_naturally pro	blematic?		(If needed, explain an	y answers in Remarks.)	
UMMARY OF FINDINGS - Att	ach site map showing	sampling p	oint location	s, transec	ts, important feature	es, etc.	
Hydrophytic Vegetation Present?	Yes N	lo X	l le	the Comp	ed Area within		
Hydric Soil Present?	Yes N			Wetland?	Yes	No X	
Wetland Hydrology Present?	Yes		1 "		onal Wetland Site ID:	none - Up	land
Remarks: (Explain alternative prod			lateral sample			ally farmed	
				,			
VEGETATION - Use scientific I	names of plants.				Daminana Tastura	dia banki	
r. O	OL P.	Absolute %	Dominant	Indicator	Dominance Test wor		
Tree Stratum (Plot size: equiv to 3	0' radius)	Cover	Species?	Status	Number of Dominant		(4)
			-		Are OBL, FACW, or	FAC: 2	(A)
2.					1		
3					Total Number of Dor		
					Across All Strata:	5	(B)
i							
3,					Percent of Dominant	Species That Are	
					OBL, FACW, or FAC	40%	(A/B)
		0%	= Total Cover				
Sapling/Shrub Stratum (Plot size:	equiv to 15' radius)				Prevalence Index wo	orksheet:	
Salix interior		60%	Y	_FACW_	Total % Cover of:	Multiply b	y:
Lonicera X bella		25%	Υ	FACU	OBL species	x 1 =	
3.					FACW species	x 2 =	
4					FAC species	x 3 =	
5,					FACU species	x 4 =	
					UPL species	x 5 =	
,					Column Totals:	(A)	(B)
		85%	= Total Cover		Prevalence In-	dex = B/A =	
Herb Stratum (Plot size: equiv to 5	ō' radius)				Hydrophytic Vegetati	on Indicators:	
. Poa pratensis	·	95%	Υ	FACU	Rapid Test for Hy	drophytic Vegetation	
. Solidago canadensis		30%	Y	FACU	Dominance Test is	s >50%	
. Euthamia graminifolia		30%	Υ	FAC	Prevalence Index	is ≤3,01	
. Solidago gigantea		20%	N	FACW	Morphological Add	aptations¹ (Provide supporti	na data in
Vitis riparia		10%	N	FAC	Remarks or on a s		ng data iii
Taraxacum officinale		5%	N	FACU		ophytic Vegetation¹ (Explain))
. Hypericum perforatum		5%	N	UPL	-	, ,g (=	A
. Trypericum perioratum		370		- 01 L	¹Indicators of hydric s	soil and wetland hydrology n	nust be present,
			-		unless disturbed or p		
					Definitions of Vegeta	tion Strata;	
			-			3 in. (7.6cm) or more in diar	neter at breast
1			-	_	height (DBH), regard		
2		40.50/	- Total Cause			dy plants less than 3 in DBI	l and greater than
Manda Vina Status (D)	which and and and	195%	= Total Cover		3 28 (1m) tall	ay plante less than a mil DDI	g. cator titali
Voody Vine Stratum (Plot size: eq	alv to 30. tagins)				` '	s (non-woody) plants, regard	dless of size and
					woody plants less that		noos or size, and
					/ ·		ft in height
,					vvoody vines - All Wo	ody vines greater than 3.28	it in neight.
					Is Hydrophytic Vege	etation	
		00/	= Total Cover		Present?	Yes	No X
		0%	- Total Cover		I resenti		

SOIL									Sampling P	oint:	10
Profile Description	n: (Describe to ti	ne depth neede	ed to docum	ent the in	dicator or co	onfirm the al	bsence of	indicators.)			
Dépth	Matrix				Redo	x Features					
(inches)	Color (moist)	%	Color (m	oist)	%	Type ¹	Loc2	Texture	Rem	arks	
0-11	10YR 3/2	100%						silt loam			
11-24	10YR 4/3	100%						silt loam			
					-		_				
	_										
					-		_				
					-						
		-									
				_							
T		DM Dedoca	-1 M-4-5 - MO	-8.814	Card Carina		-	21 anations I	OL-Boro Lining N	1-Motriy	
Type: C=Concentr		on, RM=Reduce	d Matrix, MS	=Masked	Sand Grains.				PL=Pore Lining, N		
Hydric Soil Indicat	ors:		_					Indicators for Problem	•		
Histosol (A1)					(S7) (LRR R,				(LRR K, L, MLR		
Histic Epipedo	` '				ow Surface (S				dox (A16) (LRR K		
Black Histic (A	43)		Thir	n Dark Sur	face (S9) (LR	R R, MLRA	149B)		t or Peat (S3) (LF	≀R K, L, R	₹)
Hydrogen Sulf	fide (A4)		Loa	my Mucky	Mineral (F1)	(LRR K, L)		Dark Surface (S7) (LRR K, L, M)		
Stratified Layer	ers (A5)		Loa	my Gleyed	d Matrix (F2)			Polyvalue Below	Surface (S8) (LRI	R K, L)	
Depleted Belo	ow Dark Surface ((A11)	Dep	leted Matr	ix (F3)			Thin Dark Surfac	e (S9) (L RR K, L)	1	
Thick Dark Su	urface (A12)		Red	ox Dark S	iurface (F6)			Iron-Manganese	Masses (F12) (Ll	RR K, L, I	R)
Sandy Mucky	Mineral (S1)		Dep	leted Dark	s Surface (F7))		Piedmont Floodp	lain Soils (F19) (N	/ILRA 149	€B)
Sandy Gleyed	l Matrix (S4)		Red	ox Depres	ssions (F8)			Red Parent Mate	rial (TF2)		
Sandy Redox	(S5)							Very Shallow Da	rk Surface (TF12)		
Stripped Matri	ix (S6)							Mesic Spodic (TA	\6)		
3Indicators of hydro		and wetland h	vdrology mus	t be prese	ent, unless dis	sturbed or pr	oblematic	Other (Explain in	Remarks)		
Restrictive Layer (i								_			
	ii observed).										
Type: none Depth (inches)			-					Is Hydric Soil Preser	nt? Yes	N	lo X
Remarks: Hydric s	oil criterion is n	ot met.									
HYDROLOGY											
Wetland Hydrology	Indicators:							Secondary Indica	tors (minimum of	two requi	ired)
Primary Indicators (is required; che	ck all that an	n(v)					oil Cracks (B6)		
Surface Water		o raquirou. One			ed Leaves (B9	3)			Patterns (B10)		
High Water Ta	able (A2)		Aq	uatic Faur	na (B13)	,			Lines (B16)		
Saturation (A3	3)			rl Deposit					on Water Table (C	2)	
Water Marks (, ,				ılfide Odor (C		- (00)		Surrows (C8)	lmaaaa.	(CO)
Sediment Dep					izospheres on Reduced Iron		s (U3)		Visible on Aerial Stressed Plants		(69)
Drift Deposits Algal Mat or C	` '				Reduction in 1	• ,	C6)		nic Position (D2)	(01)	
Iron Deposits					urface (C7)	, mod 00mo (,	00)		quitard (D3)		
	sible on Aerial Ima	agery (B7)			in in Remarks	3)			graphic Relief (D4	i)	
Sparsely Vege	etated Concave S	urface (B8)						FAC-Neut	ral Test (D5)		
							1				
Field Observations		·	ν -) 4 b - / ! b							
Surface Water Prese Water Table Presen		'esNo 'es No		epth (inch epth (inch			-				
Saturation Present?		es No		Depth (inch Depth (inch			Is Wett	and Hydrology Presen	t? Yes	N	lo X
includes capillary fr		140		- 2011 (11101	/.		1.0				
Describe Recorded	Data (stream gau	ige, monitoring	well, aerial p	hotos, pre	vious inspect	ions), if avai	lable: USG	S Map (Figure 1, Appe	ndix 1), WDNR S	urface W	/ater
Data Viewer Map (F	Figure 3, Append	dix 1), aerial ph	otos from 2	000, 2005	, 2007 and 20	010 (Figures	s 4A-D, App	pendix 1), NOAA Preci	p Maps (Figure !	5A-C, Apr	pendix
WETS Data (Appen	dix 2)										
				data indic	ates normal	climatic co	nditions fo	r April-June. NOAA r	nap (Figure 5B) a	also indic	ates
normal range, how	ever it is the dry	end of the no	rmał range.								
US Army Corps of E	ngineers						Northo	entral and Northeast R	egion - Version 2.	0	

	CTHX	City/County:	: Wau	kesha/Waukesha Sampling Date: 7/21/15
Applicant/Owner: Kapur & A	ssociates, In	c.		State: WI Sampling Point: 11
nvestigator(s): Tina M. Myers, PWS		Section		, Range: SE 1/4 Sec 17, T6N, R19E
Landform (hillslope, terrace, etc.):	Islope		Local	relief (concave, convex, none); convex
Slope (%): 2-3% Lat:		Long:		Datum:
Soil Map Unit Name: Fox Ioam, 2-6% slopes (FoB)				WWI classification: S3/E2K
Are climatic/hydrologic conditions on the site typical for this ti		Yes X	No	
Are Vegetation N Soil N or Hydrology N	-		110	Are "Normal Circumstances" present? Yes X No
	-			(If needed, explain any answers in Remarks)
Are Vegetation N Soil N or Hydrology N	naturally pro	biematic?		(il fleeded, explain any answers in Kemarks)
SUMMARY OF FINDINGS - Attach site map showing	sampling p	oint locations	s, transec	ets, important features, etc.
Hydrophytic Vegetation Present? Yes X N	0	le.	the Same	led Area within
Hydric Soil Present? Yes N		13	Wetland?	
Wetland Hydrology Present? Yes N				ional Wetland Site ID: none - Upland
				ional violand cite is:
and one FACU species.	rate report.) L	Jegraded uplar	na woodiai	nd bordering wetland edge with dominant FAC invasive species
VEGETATION - Use scientific names of plants.				
	Absolute %	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant Species That
1. Acer negundo	50%	Υ	FAC	Are OBL, FACW, or FAC: 4 (A)
2. Rhamnus cathartica	10%	N	FAC	
3				Total Number of Dominant Species
4			-	Across All Strata: 5 (B)
5			-	(P)
9			-	
0	_		-	Percent of Dominant Species That Are
(1-				OBL, FACW, or FAC: 80% (A/B)
	60%	= Total Cover		
Sapling/Shrub Stratum (Plot size; equiv to 15' radius)				Prevalence Index worksheet:
1. Rhamnus cathartica	60%	Y	FAC	Total % Cover of: Multiply by:
2. Lonicera X bella	30%	Y	FACU	OBL species x 1 =
3.				FACW species x 2 =
4.				FAC species x 3 =
5.				FACU species x 4 =
6,				UPL species x 5 =
7				Column Totals: (A) (B)
	90%	= Total Cover		Prevalence Index = B/A =
Herb Stratum (Plot size; equiv to 5' radius)		Total Cover		Hydrophytic Vegetation Indicators:
·	609/	V	FAC	Rapid Test for Hydrophytic Vegetation
1. Rhamnus cathartica	60%	<u>γ</u>		Dominance Test is >50%
2. Lonicera X bella	10%	N	FACU	
3. Circaea canadensis	5%	N	FACU	Prevalence Index is ≤3,01
4. Taraxacum officinale	5%	N	FACU	Morphological Adaptations¹ (Provide supporting data in
5. Geum canadense	5%	N	FAC	Remarks or on a separate sheet)
6				Problematic Hydrophytic Vegetation¹ (Explain)
7.				
8.				¹Indicators of hydric soil and wetland hydrology must be present,
9.				unless disturbed or problematic
10.				Definitions of Vegetation Strata:
11,				Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast
12.		-		height (DBH), regardless of height
	85%	= Total Cover		Sapling/shrub - Woody plants less than 3 in DBH and greater than
Woody Vine Stratum (Plot size: equiv to 30' radius)				3.28 (1m) tall
1. Vitis riparia	5%	Υ	FAC	Herb - All herbaceous (non-woody) plants, regardless of size, and
2				woody plants less than 3.28 ft tall
				Woody vines - All woody vines greater than 3.28 ft in height.
3.				
3				
3. 4.				Is Hydrophytic Vegetation
	5%	= Total Cover		Is Hydrophytic Vegetation Present? Yes No X

11

(inches) Color (moist) % Color (moist) % Type¹ 0-20 10YR 3/1 100%	
	Loc² Texture Remarks
20-24 10YR 3/1 98% 10YR 5/6 2% C	silt loam
	M silt loam
	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	² Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:	Indicators for Problematic Hydric Soils ^a :
Histosol (A1) Dark Surface (S7) (LRR R, MLRA 149B)	·
Histic Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, M	
Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 1)	
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L)	Dark Surface (S7) (LRR K, L, M)
Stratified Layers (A5) Loamy Gleyed Matrix (F2)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Below Dark Surface (A11) Depleted Matrix (F3)	Thin Dark Surface (S9) (LRR K, L)
Thick Dark Surface (A12) Redox Dark Surface (F6)	Iron-Manganese Masses (F12) (LRR K, L, R)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)	Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Gleyed Matrix (S4) Redox Depressions (F8)	Red Parent Material (TF2)
Sandy Redox (S5)	Very Shallow Dark Surface (TF12)
Stripped Matrix (S6)	Mesic Spodic (TA6)
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or prol	blematic. Other (Explain in Remarks)
Restrictive Layer (if observed):	
Type: none	
Depth (inches): n/a	Is Hydric Soil Present? Yes No_
Remarks: Hydric soil criterion is not met. Soils are dry.	
HYDROLOGY	
	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water Marks (B1) Wetland Hydrology Indicators: Water apply Water Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) 6) Geomorphic Position (D2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Perimary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Vetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B4) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8) Wetland Hydrology (B7) Sparsely Vegetated Concave Surface (B8) Water-Stained Leaves (B9) Aquatic Fauna (B13) Avair Deposits (B15) Dvidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Orift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Water Marks (B1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) 6) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Is Wetland Hydrology Present? Yes No
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Surface Corrections (B13) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes No X Depth (inches): Surface Corrections (B4) Secribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if availa	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) 6) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Is Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) (C3) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) 6) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Is Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Is Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required: check all that apply) Surface Water (A1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) Is Wetland Hydrology Present? Yes No

Project/Site:	29.3-Acre Site Southeast of STH 59	& CTH X	City/County:	Waul	kesha/Waukesha	Sampling Date:	7/21/15
Applicant/Owner:	Kapur &	Associates, Inc).		State: WI	_	12
nvestigator(s):	Tina M. Myers, PWS		Section		, Range:		
Landform (hillslope,	, terrace, etc.): wetla	nd depression			relief (concave, conve		concave
Slope (%):0	% Lat:		Long:			Datum:	
	e: Navan silt loam (Na)				WWI clas		
	ogic conditions on the site typical for thi			No		ny answers in Remark	
	N Soil N or Hydrology					stances" present?	
Are Vegetation	N Soil N or Hydrology	naturally prob	olematic?		(If needed, explain ar	ny answers in Remark	5.)
SUMMARY OF F	INDINGS - Attach site map showi	ng sampling p	oint locations	s, transec	ts, important featur	es, etc.	
6							
Hydrophytic Veget		_No	, ,	•	led Area within		
Hydric Soil Presen		_No	a '	Wetland?	Yes	XNo	W-2
16		_No			onal Wetland Site ID:		VV-2
Remarks: (Explain	alternative procedures here or in a se	parate report.) E	dge of shallow	v marsh we	etland.		
VEGETATION -	Use scientific names of plants.						
		Absolute %	Dominant	Indicator	Dominance Test wo	rksheet:	
Tree Stratum (Plot	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominan		
1,					Are OBL, FACW, or	FAC:	(A)
2,							
3					Total Number of Do	minant Species	
4					Across All Strata:	_	(B)
5,							
6					Percent of Dominan		
7					OBL, FACW, or FAC	C:	100% (A/B)
		0%	= Total Cover				
	atum (Plot size: equiv to 15' radius)				Prevalence Index wo		teres to the con-
1. Salix interior			Y	FACW	Total % Cover of:		Iltiply by:
2. Cornus alba		20%	Y	FACW	OBL species		
3.					FACW species	x 2 =	
4			-		FAC species	x 3 = _	
				-	FACU species UPL species		
6				-	Column Totals:		(B)
/		70%	= Total Cover	-	Prevalence Ir		(5)
Llock Chrokum (Dia	at already and in the El radius)	7076	- Total Cover		Hydrophytic Vegetat		
	ot size: equiv to 5' radius)	100%	Υ	FACW	_ , , , _	ydrophytic Vegetation	
1. Phalaris arun		20%	N	OBL	X Dominance Test		
 Typha latifolia Cornus alba 		5%	N	FACW	Prevalence Index		
4. Solidago giga	entos	5%	N_	FACW		daptations¹ (Provide su	proofing data in
5. Symphyotrich		5%		OBL	Remarks or on a		pporting data in
^						rophytic Vegetation1 (E	Explain)
_					_		
^							ology must be present,
^					unless disturbed or	problematic.	
					Definitions of Vegeta	ation Strata:	
							in diameter at breast
12.					height (DBH), regard	dless of height.	
		135%	= Total Cover		1	ody plants less than 3	in DBH and greater than
Woody Vine Stratu	ım (Plot size: equiv to 30' radius)	-			3.28 (1m) tall		
1.							, regardless of size, and
					woody plants less th		
•					Woody vines - All we	oody vines greater tha	n 3,28 ft in height.
					Is Hydrophytic Veg	etation	
4			- T-4-1 O		Present?	joudion	Yes X No
4		Un/v	= lotal Lover		i Present?		162 V 110
Domarks: /Individe	e photo numbers here or on a separate	0%	= Total Cover	n the edge			165 X 110

Profile Desert							Sampling Point: 12
-rome nescrit	otion: (Describe to th	e depth need	ed to document the i	ndicator or confirm the	absence of	indicators.)	
Depth	Matrix			Redox Feature	S		
(inches)	Color (moist)	%	Color (moist)	% Type¹	Loc²	Texture	Remarks
0-16	10YR 2/1	100%				silt loam	
16-24	10YR 4/1	98%	10YR 5/6	2% C	M	si cl toam	
	*				-		
					-		
					-		
	1 D. D I	DM D d	d Matrix 140-Marker	1 Card Casina		21 postion: DI	=Pore Lining, M=Matrix
	centration, D=Depletio	n, RIVI=Reduce	ed Matrix, MS=Masked	Sand Grains.		Indicators for Problema	
Hydric Soil Ind			Dark Surface	(S7) (LRR R, MLRA 14	aR)		LRR K, L, MLRA 149B)
Histosol (pedon (A2)			elow Surface (S8) (LRR F	-		x (A16) (LRR K, L, R)
Black His				ırface (S9) (LRR R, MLR	•		or Peat (S3) (LRR K, L, R)
	Sulfide (A4)			y Mineral (F1) (LRR K, L		Dark Surface (S7)	
	Layers (A5)			ed Matrix (F2)	,		urface (S8) (LRR K, L)
	Below Dark Surface (A11)	Depleted Ma			Thin Dark Surface	
· ·	rk Surface (A12)	,	Redox Dark	• •		Iron-Manganese M	asses (F12) (LRR K, L, R)
	ucky Mineral (S1)			rk Surface (F7)		Piedmont Floodpla	in Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depre	essions (F8)		Red Parent Materia	al (TF2)
Sandy Re						Very Shallow Dark	Surface (TF12)
Stripped f	Matrix (S6)					Mesic Spodic (TA6)
3Indicators of h	nydrophytic vegetation	and wetland h	ydrology must be pres	sent, unless disturbed or	problematic	Other (Explain in R	emarks)
Restrictive Lay	yer (if observed):						
Туре: пол	ne						
Depth (inc	hes): n/a					Is Hydric Soll Present	Yes X No
Remarks: Hyd	ric soil criterion is m	et. Soils are	noist.				
Remarks: Hyd	ric soil criterion is m	et. Soils are	noist.				
Remarks: Hyd	ric soil criterion is m	et. Soils are	noist.				
Remarks: Hyd	ric soll criterion is m	et. Soils are	noist.				
		et. Soils are	noist.				
		et. Soils are	noist.				
HYDROLOG		et. Soils are	noist.			Secondary Indicato	ors (minimum of two required)
HYDROLOG Vetland Hydrol Primary Indicate	iY logy Indicators: ors (minimum of one i	1,000	ck all that apply)			Surface Soi	Cracks (B6)
HYDROLOG Wetland Hydrol Primary Indicate Surface V	iY logy Indicators: ors (minimum of one i Vater (A1)	1,000	ck all that apply) Water-Stair	ned Leaves (B9)		Surface Soi	I Cracks (B6) atterns (B10)
HYDROLOG Vetland Hydrol Primary Indicate Surface V High Wate	logy Indicators: ors (minimum of one i Vater (A1) er Table (A2)	1,000	ick all that apply) Water-Stair — Aquatic Fai	una (B13)		Surface Soi Drainage Po Moss Trim	I Cracks (B6) atterns (B10)
HYDROLOG Wetland Hydrol Primary Indicate Surface V	logy Indicators: ors (minimum of one i Vater (A1) er Table (A2) n (A3)	1,000	ck all that apply) Water-Stair Aquatic Fat Marl Depos	una (B13)		Surface Soi Drainage P Moss Trim Dry-Season Crayfish Bu	l Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturatior Water Ma Sediment	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) de Deposits (B2)	1,000	ck all that apply) Water-Stair — Aquatic Fau — Marl Depos — Hydrogen S — Oxidized Rl	una (B13) iits (B15) Sulfide Odor (C1) hizospheres on Living Ro	oots (C3)	Surface Soi Drainage P Moss Trim Dry-Season Crayfish Bu Saturation V	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9)
HYDROLOG Vetland Hydrol Primary Indicate Surface V High Wate Saturatior Water Ma Sediment Drift Depo	logy Indicators: ors (minimum of one i Vater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3)	1,000	ck all that apply) Water-Stair Aquatic Fau Mari Depos Hydrogen S Oxidized Ri Presence o	una (B13) vits (B15) Sulfide Odor (C1) hizospheres on Living Ro f Reduced Iron (C4)		Surface Soi Drainage P Moss Trim Dry-Season Crayfish Bu Saturation \ Stunted or S	l Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturatior Water Ma Sediment Drift Depo	logy Indicators: ors (minimum of one invalue (A1) er Table (A2) in (A3) arks (B1) is Deposits (B2) sits (B3) or Crust (B4)	1,000	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized Ri Presence o Recent Iror	una (B13) sits (B15) Sulfide Odor (C1) hizospheres on Living Ro f Reduced Iron (C4) Reduction in Tilled Soils		Surface Soi Drainage P Moss Trim Dry-Season Crayfish Bu Saturation \ Stunted or S	I Cracks (B6) atterns (B10) .ines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1)
HYDROLOG Vetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	logy Indicators: ors (minimum of one invalue (A1) er Table (A2) in (A3) arks (B1) is Deposits (B2) sits (B3) or Crust (B4)	s required; che	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck	una (B13) vits (B15) Sulfide Odor (C1) hizospheres on Living Ro f Reduced Iron (C4)		Surface Soi Drainage Pomoss Trim Dry-Season Crayfish Bu Saturation Stunted or	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) De Position (D2) Litard (D3) Taphic Relief (D4)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) it Deposits (B2) orsits (B3) or Crust (B4) osits (B5)	s required: che	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro f Reduced Iron (C4) I Reduction in Tilled Soils Surface (C7)		Surface Soi Drainage Poi Moss Trim Dry-Season Crayfish Bu Saturation Stunted or S X Geomorphi Shallow Aq	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) De Position (D2) Litard (D3) Taphic Relief (D4)
HYDROLOG Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely	logy Indicators: ors (minimum of one invater (A1) or (A3) orks (B1) c Deposits (B2) or Crust (B4) or Crust (B4) or Visible on Aerial Ima Vegetated Concave S	s required: che	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro f Reduced Iron (C4) I Reduction in Tilled Soils Surface (C7)		Surface Soi Drainage Pomoss Trim Dry-Season Crayfish Bu Saturation Stunted or	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) De Position (D2) Litard (D3) Taphic Relief (D4)
HYDROLOG Netland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observat	logy Indicators: ors (minimum of one in Water (A1) er Table (A2) in (A3) arks (B1) is Deposits (B2) soits (B3) or Crust (B4) soits (B5) in Visible on Aerial Image Vegetated Concave S tions:	s required: che	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) Sulfide Odor (C1) nizospheres on Living Ro f Reduced Iron (C4) n Reduction in Tilled Soils Surface (C7) ain in Remarks)		Surface Soi Drainage Pomoss Trim Dry-Season Crayfish Bu Saturation Stunted or	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) De Position (D2) Litard (D3) Taphic Relief (D4)
HYDROLOG Netland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observate Surface Water I	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) in Deposits (B2) orsits (B3) or Crust (B4) osits (B5) in Visible on Aerial Image Vegetated Concave S tions: Present? Y	gery (B7) urface (B8)	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro of Reduced Iron (C4) Reduction in Tilled Soils Surface (C7) ain in Remarks) ches):	s (C6)	Surface Soi Drainage Pomoss Trim Dry-Season Crayfish Bus Saturation N Stunted or S X Geomorphi Shallow Aq Microtopogi X FAC-Neutra	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) Litard (D3) aphic Relief (D4) I Test (D5)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observat Surface Water I Water Table Presentation Pres	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) in Deposits (B2) ord Crust (B4) soits (B5) in Visible on Aerial Ima Vegetated Concave S tions: Present? esent? yeent? Yeent?	gery (B7) urface (B8)	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro of Reduced Iron (C4) Reduction in Tilled Soils Surface (C7) ain in Remarks) ches):	s (C6)	Surface Soi Drainage Pomoss Trim Dry-Season Crayfish Bu Saturation Stunted or	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) Litard (D3) aphic Relief (D4) I Test (D5)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observat Surface Water I Water Table Pre Saturation Press includes capilla	logy Indicators: ors (minimum of one in Water (A1) er Table (A2) in (A3) arks (B1) is Deposits (B2) is (B3) or Crust (B4) is its (B5) in Visible on Aerial Image Vegetated Concave S tions: Present? esent? esent? eary fringe)	gery (B7) urface (B8) esNcesNcesNcesNcesNcesNcesNc	Ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro f Reduced Iron (C4) Reduction in Tilled Soils Surface (C7) ain in Remarks)	(C6)	Surface Soi Drainage Pomoss Trim I Dry-Season Crayfish But Saturation N Stunted or Stunted or Stunted or Stunted or Stunctopogo X FAC-Neutra	I Cracks (B6) atterns (B10) .ines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) Distressed Plants (D2) Distressed Plants (D3) Distressed Plants (D4) Distressed Plants
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Mal Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observate Surface Water I Water Table Pre Saturation Pres Cincludes capilla Describe Recor	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) it Deposits (B2) or Crust (B4) osits (B5) in Visible on Aerial Image Vegetated Concave S tions: Present? esent? yesent?	gery (B7) urface (B8) esNo	Ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized Ri Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro of Reduced Iron (C4) Reduction in Tilled Soils Surface (C7) ain in Remarks) ches): ches): ches): revious inspections), if a	Is Wed	Surface Soi Drainage Pour Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Stunted or Stunted or Stunctopog X FAC-Neutra	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) Litard (D3) Litard (D3) Litard (D4) Liter (D5) Liter
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observat Surface Water I Nater Table Pro Saturation Pres includes capilla Describe Recor oata Viewer Mater Mater II N WETS Data	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) in Deposits (B2) ord Crust (B4) soits (B5) in Visible on Aerial Ima Vegetated Concave S tions: Present? esent? esent? erry ord fringe) rded Data (stream gau ap (Figure 3, Appendications)	gery (B7) urface (B8) es No es No ge, monitoring ix 1), aerial p	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro if Reduced Iron (C4) Reduced Iron (C4) Reduction in Tilled Soils Surface (C7) ain in Remarks) ches): ches): ches): revious inspections), if av 15, 2007 and 2010 (Figu	Is Wet	Surface Soi Drainage Pomers Moss Trim In Dry-Season Crayfish But Saturation In Stunted or Stunted o	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) C Position (D2) Litard (D3) aphic Relief (D4) I Test (D5) Yes X No dix 1), WDNR Surface Water Maps (Figure 5A-C, Appendix
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V Field Observat Surface Water I Water Table Pro Saturation Pres includes capilla Describe Recor Data Viewer Mater Mater II D. WETS Data	logy Indicators: ors (minimum of one invater (A1) er Table (A2) in (A3) arks (B1) in Deposits (B2) ord Crust (B4) soits (B5) in Visible on Aerial Ima Vegetated Concave S tions: Present? esent? esent? erry ord fringe) rded Data (stream gau ap (Figure 3, Appendications)	gery (B7) urface (B8) es No es No ge, monitoring ix 1), aerial p	ck all that apply) Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iror Thin Muck Other (Expl	una (B13) iits (B15) sulfide Odor (C1) hizospheres on Living Ro if Reduced Iron (C4) Reduced Iron (C4) Reduction in Tilled Soils Surface (C7) ain in Remarks) ches): ches): ches): revious inspections), if av 15, 2007 and 2010 (Figu	Is Wet	Surface Soi Drainage Pomers Moss Trim In Dry-Season Crayfish But Saturation In Stunted or Stunted o	I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) rrows (C8) /isible on Aerial Imagery (C9) Stressed Plants (D1) Position (D2) Litard (D3) Litard (D3) Litard (D4) Liter (D5) Liter

vestigator(s): Tina M. Myers, PWS	r & Associates, Inc				Sampling Point:	13
		Section	, Township	, Range:	SE 1/4 Sec 17, T6	N, R19E
andform (hillslope, terrace, etc.):	hillslope		Local	relief (concave, conve	x, none):	convex
lope (%): 2-3% Lat:		Long:			Datum:	
oil Map Unit Name: Navan silt loam (Na)					sification: none	
re climatic/hydrologic conditions on the site typical for	this time of year?	Yes X	No	(If needed, explain an	y answers in Remarks	.)
re Vegetation N Soil N or Hydrology	N significantly	disturbed?		Are "Normal Circums	stances" present?	res X No
re Vegetation N Soil N or Hydrology				(If needed, explain an	ny answers in Remarks	.)
			4	4		
UMMARY OF FINDINGS - Attach site map sho	wing sampling p	oint locations	s, transec	ts, important reature	es, etc.	
Hydrophytic Vegetation Present? Yes X	No	le	the Samo	led Area within		
Hydric Soil Present? Yes	No X				No X	
Wetland Hydrology Present? Yes			If yes, opti	ional Wetland Site ID:	none	- Upland
Remarks: (Explain alternative procedures here or in a	_	egraded unlar	-		edge with dominant i	AC invasive species
commonly found in uplands.	separate report.) D	egraded dpiai	ia woodiai	ia bordering wedana	cage mai dominanti	Ao ilivaoiva apadica
commonly round in apianas.						
VEGETATION - Use scientific names of plants						
				Dominance Test wor	rkehoet:	
Fron Stratum (Plot aire) aguit to 201 in dive	Absolute % Cover	Dominant Species?	Indicator Status			
Free Stratum (Plot size: equiv to 30' radius)			_	Number of Dominan		3 (A)
. Acer negundo	60%	Y	FAC	Are OBL, FACW, or		3 (A)
		_				
3.		_		Total Number of Dor	minant Species	2 (D)
-		-		Across All Strata:	_	3 (B)
5			_			
				Percent of Dominant		100% (A/B)
7		- Total Cavar		OBL, FACW, or FAC		100 % (AVB)
	60%	= Total Cover		Decualment Index.	-de-bash	
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)	700/	V	E40	Prevalence Index wo		tinha bar
. Rhamnus cathartica		Y	FAC	Total % Cover of:		tiply by:
2*)-			-	OBL species		
A					X2=_	
I ()					x 3 =	
				FACU species UPL species		
V			-	Column Totals:		
t	709/	- Total Cavor	-	Prevalence In		(B)
took Ohortion (Districts and the Signature)	70%	= Total Cover		Hydrophytic Vegetati		
Herb Stratum (Plot size: equiv to 5' radius)	000/	V	FAC	1 ' ' '		
Rhamnus cathartica	60%	Y	FAC		drophytic Vegetation	
Circaea canadensis	20%	N N	FACU	X Dominance Test i		
Parthenoclssus quinquefolia	10%	N	FACU	Prevalence Index		
Lonicera X bella	10%	N	FACU	Remarks or on a	aptations1 (Provide sup	oporting data in
. Frangula alnus	3%	N	FAC		separate sneet) ophytic Vegetation¹ (E)	vnlain)
· <u>-</u>				_ Problematic Hydro	opnylic vegetation (E)	.piairi)
·			_	Indicators of hydric	soil and wetland hydro	loav must be present
1.2		-		unless disturbed or p	•	. 57 p. 600111
0		_		Definitions of Vegeta		
0					3 in. (7.6cm) or more i	in diameter at breast
1				height (DBH), regard	'	
2	4000/	- Total Cours			-	n, DBH and greater than
Manda Vine Chestum (Diet einer en 1 de COI en 1	103%	= Total Cover		3 28 (1m) tall	-, piane 1000 tran 0 li	and grower wan
Voody Vine Stratum (Plot size: equiv to 30' radius)					is (non-woody) plants	regardless of size, and
ť <u>.</u>				woody plants less that	* * * * * * * * * * * * * * * * * * * *	-g o, o,20, und
4			_		oody vines greater than	3.28 ft in height
t/		-		1700dy villes - All Wo	out the greater than	o _o n in noight.
4 -		-		Is Hydrophytic Vege	etation	
	0%	= Total Cover		Present?		Yes X No
Remarks: (Include photo numbers here or on a separa		mmunity is a c	degraded u	pland woods domina	ted by invsive specie	s.

SOIL								Sampling Point:	13
Profile Descrip	ption: (Describe to t	he depth need	ed to document the ir	ndicator or confir	m the at	sence of in	ndicators.)		
Depth	Matrix	<		Redox Fe	eatures				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-20	10YR 3/1	100%					silt loam		
20-24	10YR 3/1	100%					silt loam		
				TEST					
¹Type: C=Cond	centration, D=Depleti	on, RM=Reduce	ed Matrix, MS=Masked	Sand Grains			²Location: I	PL=Pore Lining, M≃Matrix	X
Hydric Soil Inc	dicators:						Indicators for Problem	natic Hydric Soils³:	
Histosol ((A1)		Dark Surface	(S7) (LRR R, MLI	RA 149B	3)	2 cm Muck (A10)) (LRR K, L, MLRA 149B)	.)
Histic Epi	ipedon (A2)		Polyvalue Be	low Surface (S8) (LRR R, I	MLRA 149B	Coast Prairie Re	dox (A16) (LRR K, L, R)	
Black His	stic (A3)		Thin Dark Su	rface (S9) (LRR R	, MLRA	149B)	5 cm Mucky Pea	t or Peat (S3) (LRR K, L,	, R)
Hydroger	Sulfide (A4)		Loamy Mucky	y Mineral (F1) (LR	R K, L)		Dark Surface (S7	') (LRR K, L, M)	
Stratified	Layers (A5)		Loamy Gleye	d Matrix (F2)			Polyvalue Below	Surface (S8) (LRR K, L)	
Depleted	Below Dark Surface	(A11)	Depleted Mat	rix (F3)			Thin Dark Surfac	e (S9) (LRR K, L)	
Thick Da	rk Surface (A12)		Redox Dark S	Surface (F6)			Iron-Manganese	Masses (F12) (LRR K, L	_, R)
Sandy Mi	ucky Mineral (S1)		Depleted Dar	k Surface (F7)				olain Soils (F19) (MLRA 1	.49B)
Sandy GI	eyed Matrix (S4)		Redox Depre	ssions (F8)			Red Parent Mate		
Sandy Re	edox (S5)						_	rk Surface (TF12)	
	Matrix (S6)						Mesic Spodic (TA		
3Indicators of I	hydrophytic vegetatio	n and wetland h	ydrology must be pres	ent, unless disturb	oed or pro	oblematic.	Other (Explain in	Remarks)	
Restrictive La	yer (if observed):								
Type: no	ne								
Depth (inc	ches): n/a						Is Hydric Soil Preser	nt? Yes	No X
Remarks: Hyd	ric soil criterion is i	not met. Soils a	are dry.						
HYDROLOG	Y								
							Secondary Indica	ators (minimum of two rec	nuired)
	logy Indicators: ors (minimum of one	ie required: che	ock all that annly)					oil Cracks (B6)	dired
	Vater (A1)	is required. Cite		ed Leaves (B9)				Patterns (B10)	
	ter Table (A2)		Aquatic Fau					n Lines (B16)	
Saturation			Mari Deposi	, ,				on Water Table (C2)	
Water Ma	, ,			ulfide Odor (C1) nizospheres on Liv	ina Root	s (C3)		Burrows (C8) n Visible on Aerial Imager	ov (C9)
	t Deposits (B2) osits (B3)			f Reduced Iron (C4		3 (00)		r Stressed Plants (D1)	, (00)
	or Crust (B4)		The second secon	Reduction in Tille	,	26)		hic Position (D2)	
Iron Depo			The second secon	Surface (C7)				quitard (D3)	
	n Visible on Aerial Im		Other (Expla	ain in Remarks)				graphic Relief (D4)	
Sparsely	Vegetated Concave	Surface (B8)					FAC-Neur	tral Test (D5)	
Field Observat	tions:								
Surface Water		YesNo	X Depth (inc	:hes):					
Water Table Pr		Yes No						V	Na V
Saturation Pres		YesNo	Depth (inc	hes):	_	Is Wetla	nd Hydrology Preser	nt? Yes	No_X_
(includes capilla	rded Data (etream da	uge monitoring	well aerial photos pr	evious inspections	s) if avail	lable: USGS	Map (Figure 1, Appe	endix 1), WDNR Surface	Water
Data Viewer M	lap (Figure 3, Apper	dix 1), aerial pl	notos from 2000, 200	5, 2007 and 2010	(Figures	4A-D, App	endix 1), NOAA Prec	ip Maps (Figure 5A-C, A	ppendix 1),
WETS Data (A)	ppendix 2)								
				cates normal clin	natic co	nditions for	r April-June. NOAA ı	map (Figure 5B) also inc	dicates
normal range,	however it is the dr	y end of the no	rmal range.						

Absolute % Septiment (Plot size: equiv to 5' radius) Tina M. Myers, PWS Andform (hillslope, terrace, etc.): wetland depression Lone (%): 0% Lat: No rHydrology N significantly disture vegetation N Soil N or Hydrology N naturally problem and the problem of	g:	No the Sample Wetland? If yes, optic	led Area within Yes X No ional Wetland Site ID: W-2
andform (hillslope, terrace, etc.): Iope (%):	g:	No	Datum: WWI classification: S3/E2K (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? W-2 The edge of a shrub carr/ shallow marsh. The hydroperiod is Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Prevalence Index worksheet: Total % Cover of: Multiply by:
cope (%):	es X rbed? atic? locations, ls t a W point is locations point is locations ordinant point is locations ordinant point is locations y ordinant point is locations ordinant point is locat	No	Datum: WWI classification: S3/E2K (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Ats, important features, etc. Ided Area within Yes X No Jonal Wetland Site ID: W-2 The edge of a shrub carr/ shallow marsh. The hydroperiod is Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Multiply by:
ac climatic/hydrologic conditions on the site typical for this time of year? Ye e Vegetation N Soil N or Hydrology N significantly disture to Vegetation N Soil N or Hydrology N naturally problem JMMARY OF FINDINGS - Attach site map showing sampling point Hydrophytic Vegetation Present? Yes X No Lydric Soil Present? Yes X No Lydric Soi	es X rbed? atic? locations, ls t a W point is locations point is locations ordinant point is locations ordinant point is locations y ordinant point is locations ordinant point is locat	No	WWI classification: S3/E2K (If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) its, important features, etc. Iled Area within Yes X No Jonal Wetland Site ID: W-2 The edge of a shrub carr/ shallow marsh. The hydroperiod is Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
a climatic/hydrologic conditions on the site typical for this time of year? You be vegetation N Soil N or Hydrology N significantly disture to vegetation N Soil N or Hydrology N naturally problems of Williams of Hydrology N naturally problems of Hydrology of N naturally problems of Hydrology of N naturally problems of Hydrology of N naturally problems of Hydrology Present? Yes X No yet and Hydrology Present? Yes X No yet and Hydrology Present? Yes X No emarks: (Explain alternative procedures here or in a separate report.) Data intermittent here. EGETATION - Use scientific names of plants. EGETATIO	rbed? atic? locations, ls t a W point is locations point is lo	the Sample Wetland? If yes, optic cated on the	(If needed, explain any answers in Remarks.) Are "Normal Circumstances" present? Yes X No (If needed, explain any answers in Remarks.) Ats, important features, etc. Ied Area within Yes X No Jonal Wetland Site ID: W-2 The edge of a shrub carr/ shallow marsh. The hydroperiod is Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Across All Strata: S (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Mumber of Dominant Species That Are OBL, FACW, or FAC: Multiply by:
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Absolute % Cover Spanning/Shrub Stratum (Plot size: equiv to 30' radius) Rhamnus cathartica Lonicera X bella Lonicera X bella Angelica atropurpurea Angelica atropurpurea Angelica atropurpurea Rhamnus cathartica Angelica atropurpurea Angelica atropurpurea Rhamnus cathartica Angelica stropurpurea Rhamnus cathartica Angelica stropurpurea Rhamnus cathartica Angelica atropurpurea Rhamnus cathartica Angelica stropurpurea	point is locations, point is	the Sample Wetland? If yes, optic cated on the Indicator Status FAC	(If needed, explain any answers in Remarks.) its, important features, etc. led Area within Yes X No ional Wetland Site ID: Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
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### Absolute ### Doc Cover Sp. ### Acer negundo ### 30% = To Cover X bella ### Angelica atropurpurea #### Angelica atropurpurea #### Angelica atropurpurea ##### Angelica atropurpurea ####################################	ominant pecies? Y otal Cover Y	Indicator Status FAC	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
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Absolute % Cover Sp.	octal Cover Y Y	FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
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Acer negundo 30% 3	octal Cover Y Y	FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
Acer negundo 30% 3	octal Cover Y Y	FAC FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
30% 30%	y otal Cover Y Y	FAC	Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by:
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Lonicera X bella	Υ .		
## ## ## ## ## ## ## ## ## ## ## ## ##		FACU	OBL species x 1 =
## ## ## ## ## ## ## ## ## ## ## ## ##			
## ## ## ## ## ## ## ## ## ## ## ## ##			FACW species x 2 =
## ## ## ## ## ## ## ## ## ## ## ## ##			FAC species x 3 =
erb Stratum (Plot size: equiv to 5' radius) Phalaris arundinacea 70% Angelica atropurpurea 30% Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%			FACU species x 4 =
40% = To erb Stratum (Plot size: equiv to 5' radius) Phalaris arundinacea 70% Angelica atropurpurea 30% Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%			UPL species x 5 =
Phalaris arundinacea 70% Angelica atropurpurea 30% Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%			Column Totals: (A) (B)
Phalaris arundinacea 70% Angelica atropurpurea 30% Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%	otal Cover		Prevalence Index = B/A =
Phalaris arundinacea 70% Angelica atropurpurea 30% Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%			Hydrophytic Vegetation Indicators:
Angelica atropurpurea 30% Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%	Υ	FACW	Rapid Test for Hydrophytic Vegetation
Rhamnus cathartica 10% Vitis riparia 10% Parthenocissus quinquefolia 5%	Y	OBL	X Dominance Test is >50%
Vitis riparia 10% Parthenocissus quinquefolia 5%	N	FAC	Prevalence Index is ≤3.0¹
Parthenocissus quinquefolia 5%	N -	FAC	
	N		Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
		FACU	
Solidago canadensis 5%	N _	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
			Indicators of hydric soil and wetland hydrology must be present,
			unless disturbed or problematic
	-		Definitions of Vegetation Strata:
			Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.
130% = To	otal Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater that 3 28 (1m) tall.
oody Vine Stratum (Plot size: equiv to 30' radius)			
			Herb - All herbaceous (non-woody) plants, regardless of size, and
			woody plants less than 3.28 ft tall
			Woody vines - All woody vines greater than 3.28 ft in height.
			Is Hydrophytic Vegetation
emarks: (Include photo numbers here or on a separate sheet.) Data point is	-		Present? Yes X No

								Sampling Point:	1	
rofile Descrip	tion: (Describe to the de	pth needed to	document the i	indicator or co	nfirm the a	bsence of	indicators.)			
Depth	Matrix			Redo	x Features					
inches)	Color (moist) % Color (moist) % Type¹ Loc²					Loc²	Texture	Remarks	Remarks	
0-5		10YR 2/1 100%								
5-16		90%	5YR 4/6	10%	C	M	silt loam			
16-24		80%	5YR 4/6	20%	C	M	silty clay loam			
		-								
Type: C=Conc	entration, D=Depletion, RI	M=Reduced M	atrix, MS=Maske	d Sand Grains.			²Location:	PL=Pore Lining, M=Matrix		
lydric Soil Ind							Indicators for Problen	natic Hydric Soils³:		
Histosol (A			Dark Surface	e (S7) (LRR R, I	MLRA 149	3)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)		
	pedon (A2)	_	Polyvalue B	elow Surface (S	8) (LRR R,	MLRA 149	B Coast Prairie Re	dox (A16) (LRR K, L, R)		
Black Hist	, ,		Thin Dark Si	urface (S9) (LR l	R R, MLRA	149B)	5 cm Mucky Pea	t or Peat (S3) (LRR K, L,	R)	
	Sulfide (A4)		Loamy Muck	ky Mineral (F1) ((LRR K, L)		Dark Surface (S7) (LRR K, L, M)			
	_ayers (A5)	_	Loamy Gley	ed Matrix (F2)			Polyvalue Below	Surface (S8) (LRR K, L)		
Depleted	Below Dark Surface (A11))	Depleted Ma	atrix (F3)			Thin Dark Surface (S9) (LRR K, L)			
	k Surface (A12)	X	Redox Dark	Surface (F6)			Iron-Manganese Masses (F12) (LRR K, L, R)			
	cky Mineral (S1)			ark Surface (F7)			Piedmont Flood	olain Soils (F19) (MLRA 1	49B)	
	eyed Matrix (S4)		Redox Depre	essions (F8)			Red Parent Mate	ent Material (TF2) allow Dark Surface (TF12)		
Sandy Re	dox (S5)		_				Very Shallow Da			
Stripped N	Matrix (S6)						Mesic Spodic (Ta	46)		
3Indicators of h	ydrophytic vegetation and	wetland hydro	logy must be pre	sent, unless dis	turbed or p	roblematic.	Other (Explain in	Remarks)		
	er (if observed):									
Restrictive Lay	•		_				Is Hydric Soil Prese		No	
Restrictive Lay	ne							nt? Yes X		
Restrictive Lay Type: nor Depth (incl	nes): <u>n/a</u>						10 11,44110 00.11 1000	nt? Yes X	-	
Restrictive Lay Type: nor Depth (incl	ne					_	io nyuno com noce	nt? Yes X		
Restrictive Lay Type: nor Depth (incl	nes): <u>n/a</u>		_				io il yuno con il reco	nt? Yes X		
Restrictive Lay Type: nor Depth (incl	nes): <u>n/a</u>						is tryane con reco	nt? Yes X		
Restrictive Lay Type: nor Depth (incl	nes): <u>n/a</u>						0.11,0.10	nt? Yes X		
Restrictive Lay Type: <u>nor</u> Depth (inch Remarks: Hydr	nes): n/a ric soil criterion is met.						0.11,0.10	nt? Yes X		
Restrictive Lay Type: nor Depth (incl Remarks: Hydr	nes): n/a ric soil criterion is met.									
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG	nee nes): n/a ric soil criterion is met. Y ogy Indicators:	sulendi abank o	II that apply				Secondary Indica	ators (minimum of two req		
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG Wetland Hydrole	nes): n/a ric soil criterion is met. Y ogy Indicators: ors (minimum of one is rec	quired: check a		ned Leaves (B9	0		Secondary Indica Surface S			
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG Wetland Hydrolog Surface W	nes): n/a ric soil criterion is met. Y ogy Indicators: ors (minimum of one is rec	quired: check a		ned Leaves (B9 una (B13)	0):		Secondary Indica Surface S Drainage Moss Trir	ators (minimum of two req foil Cracks (B6) Patterns (B10) n Lines (B16)		
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG Wetland Hydrolo Primary Indicator Surface W High Wate Saturation	ric soil criterion is met. Y ogy Indicators: ors (minimum of one is recovater (A1) or Table (A2)	quired: check a	Water-Stair Aquatic Fa Marl Depos	una (B13) sits (B15)			Secondary Indica Surface S Drainage Moss Trir Dry-Seas	ators (minimum of two red foil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2)		
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG Wetland Hydrol Primary Indicato Surface W High Wate Saturation Water Mai	ric soil criterion is met. Y ogy Indicators: ors (minimum of one is recovered (A1) er Table (A2) (A3) rks (B1)	quired: check a	Water-Stair Aquatic Fa Marl Depos Hydrogen S	una (B13) sits (B15) Sulfide Odor (C	1)	40 (C2)	Secondary Indicates Surface Son Drainage Moss Trin Dry-Seas Crayfish I	ators (minimum of two red ioil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8)	uire	
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG Wetland Hydrole Primary Indicate Surface W High Water High Water Saturation Water Mai Sediment	ric soil criterion is met. Y ogy Indicators: ors (minimum of one is receivater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2)	quired: check a	Water-Stain Aquatic Fa Marl Depos Hydrogen S Oxidized R	una (B13) sits (B15) Sulfide Odor (C thizospheres on	1) Living Roc	ts (C3)	Secondary Indicates Surface Son Drainage Moss Trin Dry-Seas Crayfish Is Saturation	ators (minimum of two req ioil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8) n Visible on Aerial Imager	uire	
Restrictive Lay Type: nor Depth (inch Remarks: Hydr HYDROLOG Wetland Hydrolog Primary Indicate Surface W High Wate Saturation Water Mai Sediment Drift Depo	ric soil criterion is met. Y ogy Indicators: ors (minimum of one is recovater (A1) or Table (A2) or (A3) rks (B1) Deposits (B2) sits (B3)	quired: check a	Water-Stain Aquatic Far Marl Depos Hydrogen S Oxidized R Presence of	una (B13) sits (B15) Sulfide Odor (C ² thizospheres on of Reduced Iron	1) Living Roc (C4)		Secondary Indicates Surface Son Drainage Moss Trin Dry-Seas Crayfish I Saturation Stunted of Stunte	ators (minimum of two red ioil Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8)	uire	
Restrictive Lay Type: nor Depth (inch Remarks: Hydr HYDROLOG Wetland Hydrolog Primary Indicate Surface W High Wate Saturation Water Mai Sediment Drift Depo	ric soil criterion is met. Y ogy Indicators: ors (minimum of one is recolater (A1) ar Table (A2) (A3) rrks (B1) Deposits (B2) sits (B3) or Crust (B4)	quired: check a	Water-Stain Aquatic Fata Marl Depos Hydrogen S Oxidized R Presence of Recent Iror	una (B13) sits (B15) Sulfide Odor (C thizospheres on	1) Living Roc (C4)		Secondary Indicates Surface S Drainage Moss Trir Dry-Seas Crayfish I Saturation Stunted oc X Geomorp Shallow A	ators (minimum of two red foil Cracks (B6) Patterns (B10) In Lines (B16) on Water Table (C2) Burrows (C8) In Visible on Aerial Imager In Stressed Plants (D1) hic Position (D2)	uire	
Restrictive Lay Type: nor Depth (incl Remarks: Hydr HYDROLOG Wetland Hydrole Primary Indicate Surface W High Wate Saturation Water Mai Sediment Drift Depo Algal Mai Iron Depo: Inundatior	ric soil criterion is met. Y ogy Indicators: ors (minimum of one is recolater (A1) ar Table (A2) (A3) rrks (B1) Deposits (B2) sits (B3) or Crust (B4)	y (B7)	Water-Stain Aquatic Fate Marl Deposition Hydrogen State Oxidized Researce of Recent Iron Thin Muck	una (B13) sits (B15) Sulfide Odor (C' thizospheres on of Reduced Iron n Reduction in T	1) Living Roo (C4) Filled Soils		Secondary Indications Surface Secondary Indications Surface Secondary Indications Indicati	ators (minimum of two requision Cracks (B6) Patterns (B10) n Lines (B16) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagen r Stressed Plants (D1) hic Position (D2)	uire	

Depth (inches):

Depth (inches):

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS Map (Figure 1, Appendix 1), WDNR Surface Water Data Viewer Map (Figure 3, Appendix 1), aerial photos from 2000, 2005, 2007 and 2010 (Figures 4A-D, Appendix 1), NOAA Precip Maps (Figure 5A-C, Appendix 1), WETS Data (Appendix 2)
Remarks: WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5B) also indicates normal range, however it is the dry end of the

No

No

Is Wetland Hydrology Present?

Water Table Present?

(includes capillary fringe)

Saturation Present?

normal range.

Project/Site:	29.3-Acre Site Southeast of STH 59	&CTH X	City/County:	:Waul	kesha/Waukesha	Sampling Date:	7/21/15
Applicant/Owner:	Kapur &	Associates, In	с.		State: WI	Sampling Point:	15
nvestigator(s):	Tina M. Myers, PWS		Section	, Township,	Range:	SE 1/4 Sec 17, T6N	I, R19E
andform (hillslope, t	terrace, etc.):	plain		Local	relief (concave, convex	(, none): flat to ve	ery slightly convex
Slope (%): 1%			Long:			Datum:	
• • • —	Aztalan loam, 0-2% slopes (AzA)					sification: S3/E2K	
	ic conditions on the site typical for this		Vos Y	No			
					Are "Normal Circums		es X No
	N Soil N or Hydrology N					·	
re Vegetation	N Soil N or Hydrology N	naturally pro	blematic?		(ir needed, explain any	y answers in Remarks)	
SUMMARY OF FIN	NDINGS - Attach site map showin	g sampling p	oint locations	s, transect	ts, important feature	es, etc.	
Hydrophytic Vegeta	tion Present? Yes	No X		in a com	cara in company		
			13		ed Area within	No. V	
Hydric Soil Present?			a	Wetland?	_	No X	Upland
Wetland Hydrology	Present? Yes	No X		If yes, option	onal Wetland Site ID:	none -	Органи
Remarks: (Explain a	alternative procedures here or in a sep	arate report.) F	riant communi	ty is an upi	and old held/scrub sh	irub that was previoui	sy farmed.
VEGETATION - U	lse scientific names of plants.						
		Absolute %	Dominant	Indicator	Dominance Test world	ksheet:	
,	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant		
1. Rhamnus catha	artica	5%	Y	FAC	Are OBL, FACW, or F	FAC:	3 (A)
2.							
3					Total Number of Dom	ninant Species	
4,					Across All Strata:		6 (B)
5							
3.					Percent of Dominant	Species That Are	
7.					OBL, FACW, or FAC:	•	50% (A/B)
		5%	= Total Cover		1		
Sapling/Shrub Strati	um (Plot size: equiv to 15' radius)	-			Prevalence Index wo	rksheet:	
1. Cornus amomu		15%	Υ	FACW	Total % Cover of:		ply by:
2. Lonicera X bella		10%	Y	FACU	OBL species	0 x1=	0
Rhamnus catha		10%	<u> </u>	FAC	FACW species	15 x2=	30
Cornus racemo		5%	N	FAC	FAC species	25 ×3=	75
_)Sd			FAC	FACU species	180 x 4 =	720
5.				$\overline{}$		0 x5=	0
3				-	UPL species		
1					Column Totals:	220 (A)	825 (B)
		40%	= Total Cover		Prevalence Inc		3.75
•	size: equiv to 5' radius)				Hydrophytic Vegetation		
Poa pratensis			Y	FACU	_	drophytic Vegetation	
2. Solidago canad	lensis	50%	Y	FACU	Dominance Test is		
3. Cirsium arvens	e	10%	N	FACU	Prevalence Index	is ≤3.0¹	
. Taraxacum offic	cinale	10%	N	FACU	Morphological Ada	aptations¹ (Provide supp	porting data in
Euthamia gram	inifolia	5%	N	FAC	Remarks or on a s	separate sheet)	
S					Problematic Hydro	phytic Vegetation¹ (Exp	olain)
						soil and wetland hydrolo	gy must be present,
9.					unless disturbed or pr	roblematic.	
10					Definitions of Vegetat	tion Strata:	
					Tree - Woody plants :	3 in. (7.6cm) or more in	diameter at breast
2.		7			height (DBH), regardl	less of height	
		175%	= Total Cover		Sapling/shrub - Wood	dy plants less than 3 in.	DBH and greater than
Mondy Vine Stratus	n (Plot size: equiv to 30' radius)	11070	. 5.6 50401		3.28 (1m) tall		-
	,				Herb - All herbaceous	s (non-woody) plants, re	egardless of size, and
				-	woody plants less tha	, ,,,	J
			-		1	ody vines greater than	3.28 ft in height
					vvoody viries - All Woo	ouy villes greater trially	20 It in noight
,					la Unidea de Maria Maria	Antina	
,					Is Hydrophytic Vege	tation	
		0%	= Total Cover		Present?		Yes No_X
B	ohoto numbers here or on a separate s	_		upland old	Present?		

Profile Descrip	otion: (Describe to th	e depth neede	ed to document the in	ndicator or co	onfirm the ab	sence of i	ndicators.)	
Depth	Matrix				ox Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-10	10YR 2/1	100%	Color (moloc)	- /			silt loam	
10-24	10YR 4/3	100%		-	-	_	silt loam	
10-24	101K 4/3	100 /6		-	-		- Silt Idaiii	
	_					_		
	-				-			
	-							
-						-		
-					-			
	-							
¹Type: C=Cond	centration, D=Depletion	n, RM=Reduce	ed Matrix, MS=Masked	Sand Grains,				L=Pore Lining, M=Matrix.
Hydric Soil Inc	licators:						Indicators for Problems	atic Hydric Soils³:
Histosol ((A1)		Dark Surface	(S7) (LRR R,	MLRA 149B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Bel	low Surface (\$	88) (LRR R, N	/ILRA 149E	Coast Prairie Red	ox (A16) (LRR K, L, R)
Black His			Thin Dark Su					or Peat (S3) (LRR K, L, R)
	Sulfide (A4)			, , ,		,	Dark Surface (S7)	
			Loamy Mucky		(Surface (S8) (LRR K, L)
	Layers (A5)							
	Below Dark Surface (A	411)	Depleted Mat				Thin Dark Surface	
Thick Dai	rk Surface (A12)		Redox Dark S					Masses (F12) (LRR K, L, R)
Sandy Mu	ucky Mineral (S1)		Depleted Dar	k Surface (F7)			ain Soils (F19) (MLRA 149B)
Sandy GI	eyed Matrix (S4)		Redox Depre	ssions (F8)			Red Parent Mater	ial (TF2)
Sandy Re	edox (S5)						Very Shallow Dark	Surface (TF12)
-	Matrix (S6)						Mesic Spodic (TA	6)
	, ,	and wetland h	ydrology must be pres	ent unless di	sturbed or pro	blematic	Other (Explain in I	•
	yer (if observed):							
Type: no	ne							
Depth (inc	hes): n/a						Is Hydric Soil Present	? Yes No X
HYDROLOG							Casandan Indicat	are (minimum of two required)
	logy Indicators:		L . 0. 0					ors (minimum of two required)
	ors (minimum of one is	required: che		ed Leaves (B	0)			il Cracks (B6) atterns (B10)
	Vater (A1) er Table (A2)		Aquatic Fau	•	9)			Lines (B16)
Saturation	, ,		Marl Deposi					n Water Table (C2)
Water Ma				ulfide Odor (C	(1)			ırrows (C8)
	Deposits (B2)			izospheres or		(C3)	Saturation	Visible on Aerial Imagery (C9)
Drift Depo			Presence of	Reduced Iron	n (C4)		Stunted or	Stressed Plants (D1)
Algal Mat	or Crust (B4)		Recent Iron	Reduction in	Tilled Soils (C	(6)		c Position (D2)
Iron Depo	sits (B5)		Thin Muck S				Shallow Ad	
Inundatio	n Visible on Aerial Ima	gery (B7)	Other (Expla	ain in Remark	s)			raphic Relief (D4)
Sparsely	Vegetated Concave Su	urface (B8)					FAC-Neutr	al Test (D5)
E. 110:						r -		
Field Observat		na hi-	V Donth fine	hoc):				
Surface Water								
Water Table Pr Saturation Pres					_	Is Wetls	and Hydrology Present	? Yes No X
(includes capilla			Depui (inc			13 Welle	rijarologj i resem	
Describe Recor	ded Data (stream gau	ge, monitorina	well, aerial photos, pre	evious inspec	tions), if availa	able: USGS	S Map (Figure 1, Apper	ndix 1), WDNR Surface Water
Data Viewer M WETS Data (A)	ap (Figure 3, Append	ix 1), aerial pl	notos from 2000, 200	5, 2007 and 2	010 (Figures	4A-D, App	pendix 1), NOAA Precij	Maps (Figure 5A-C, Appendix
Remarks: No.	vetland hydrology inc			cates normal	climatic con	ditions fo	r April-June. NOAA m	ap (Figure 5B) also indicates
TOTALING. 140 F								
	however it is the dry	end of the no	mai range.					
	however it is the dry	end of the no	rillai ralige.					

Project/Site:	29.3-Acre Site Southeast of STH 59 &	CTH X	City/County	Wau	kesha/Waukesha	Sampling Date:	7/22/15
Applicant/Owner:	Kapur & A	ssociates, Inc			State: WI	Sampling Point:	16
Investigator(s):	Tina M. Myers, PWS		Section	, Township	, Range:	SE 1/4 Sec 17, To	δN, R19E
Landform (hillslope	, terrace, etc.): dep	ression		Local	relief (concave, convex	, none):	concave
Slope (%):0	% Lat:		Long:			Datum:	
Soil Map Unit Name	e: Aztalan loam, 0-2% slopes (AzA)				WWI class	ification: S3/E2K	
Are climatic/hydrolo	gic conditions on the site typical for this t	ime of year?	Yes X	No	(If needed, explain any	answers in Remarks	3.)
Are Vegetation	N Soil N or Hydrology N	_significantly d	listurbed?		Are "Normal Circumst	ances" present?	Yes X No
Are Vegetation		_ naturally prob			(If needed, explain any	/ answers in Remark:	s.)
SUMMARY OF F	INDINGS - Attach site map showing	sampling po	oint locations	s, transec	ts, important feature	s, etc.	
Hydrophytic Veget	ation Present? Yes X N	lo			and Americans		
Hydric Soil Presen		lo	1 10	tne Sampi Wetland?	led Area within Yes	X No	
Wetland Hydrology	· ·				onal Wetland Site ID:		W-3
, ,						4 h a h	orinan Data naint in
	alternative procedures here or in a sepa					w the deep dark A ii	orizon. Data point is
located within a r	resii (wet) meadow with a dramage par	iterii. Tile liyu	iroperiou is iii	iteriiiitteiit	nere.		
VEGETATION							
VEGETATION -	Use scientific names of plants.						
		Absolute %	Dominant	Indicator	Dominance Test work	ksheet:	
Tree Stratum (Plot	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant		
1					Are OBL, FACW, or F	FAC:	1(A)
2							
3.					Total Number of Dom	ninant Species	
4					Across All Strata:	_	(B)
5							
6					Percent of Dominant		
7.					OBL, FACW, or FAC:		100% (A/B)
		0%	= Total Cover				
Sapling/Shrub Stra	atum (Plot size: equiv to 15' radius)				Prevalence Index wor		
1.			_		Total % Cover of:		Itiply by:
2.					OBL species		
3.				-	FACW species _		
4.							
5.					FACU species _		
6,					UPL species		(5)
7.			~		Column Totals: Prevalence Inc		(B)
		0%	= Total Cover		-		
,	t size: equiv to 5' radius)			E 4 0111	Hydrophytic Vegetation		
1. Phalaris arund	dinacea	70%	Υ	FACW	X Rapid Test for Hyd		
2.			_		X Dominance Test is		
3.			_	_	Prevalence Index i		
				-	Morphological Ada Remarks or on a s	aptations¹ (Provide su	pporting data in
5.						phytic Vegetation¹ (E	(vnlain)
6				-	_ Floblematic Hydro	phylic vegetation (L	Apidin)
				-	1Indicators of hydric s	oil and wetland hydro	ology must be present,
9.		. — — —			unless disturbed or pr		, .
12-					Definitions of Vegetat	ion Strata:	
-			_		Tree - Woody plants :		in diameter at breast
12.				-	height (DBH), regardl		
12,		70%	= Total Cover	-	Sapling/shrub - Wood	ly plants less than 3 i	n. DBH and greater than
Mondy Vine Stratu	ım (Plot size: equiv to 30' radius)	1074	- 10(4) 00461		3.28 (1m) tall.		
1.	in (Flot size, equiv to 50 Fadius)				Herb - All herbaceous	(non-woody) plants,	regardless of size, and
			-	-	woody plants less tha	n 3.28 ft tall	
3.					Woody vines - All woo	ody vines greater that	n 3 28 ft in height
4.							
					Is Hydrophytic Vege	tation	v v ··
			= Total Cover		Present?		Yes X No
	photo numbers here or on a separate sh	eet.) Data poi	nt is located v	vithin a de	graded fresh (wet) mea	dow dominated by	invasive reed canary
grass.							

i Tome Besonipe	ion: (Describe to th	e denth need	ded to document the	indicator or co	onfirm the at	sence of	indicators.)	
Depth	•	e depair neet	sea to accument the		ox Features	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	maradoror,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-19	10YR 2/1	100%	Color (moist)		Туре		silt loam	Kemana
19-24	10YR 4/2	90%			-	-	silty clay loam	
19-24	101R 4/2	90%					Silty Clay IDaili	
-	-				-	_		
					-			
					_	-	-	
	-							
-				_		_		
	-							
		n, RM=Reduc	ced Matrix, MS=Maske	ed Sand Grains.				PL=Pore Lining, M=Matrix
Hydric Soil Indic	cators:						Indicators for Problem	•
Histosol (A	•			ce (S7) (LRR R ,				(LRR K, L, MLRA 149B)
Histic Epipe	edon (A2)			lelow Surface (lox (A16) (LRR K, L, R)
Black Histic	c (A3)		Thin Dark S	Surface (S9) (LF	RR R, MLRA	149B)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Hydrogen S	Sulfide (A4)		Loamy Muc	ky Mineral (F1)	(LRR K, L)		Dark Surface (S7)	
Stratified La	ayers (A5)		Loamy Gley	ed Matrix (F2)				Surface (S8) (LRR K, L)
Depleted B	Below Dark Surface (A	A11)	Depleted M	atrix (F3)			Thin Dark Surface	
Thick Dark	Surface (A12)		Redox Dark	Surface (F6)				Masses (F12) (LRR K, L, R)
Sandy Muc	ky Mineral (S1)		Depleted Da	ark Surface (F7	")			ain Soils (F19) (MLRA 149B)
Sandy Gley	yed Matrix (S4)		Redox Depi	ressions (F8)			Red Parent Mater	
Sandy Red	lox (S5)						Very Shallow Dark	k Surface (TF12)
Stripped Ma	' '						Mesic Spodic (TA	6)
³ Indicators of hy-	drophytic vegetation	and wetland	hydrology must be pre	esent, unless di	sturbed or pro	oblematic		Remarks)
³ Indicators of hy- Restrictive Laye		and wetland	hydrology must be pre	esent, unless di	sturbed or pro	oblematic		Remarks)
	er (if observed):	and wetland	hydrology must be pre	esent, unless di	sturbed or pro	oblematic		Remarks)
Restrictive Laye Type: none Depth (inche	er (if observed): e es): <u>n/a</u>						Other (Explain in	t? Yes <u>*X</u> No_
Restrictive Laye Type: none Depth (inche	er (if observed): e es): <u>n/a</u> not meet an indicat	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Other (Explain in Is Hydric Soil Present Observed below the A	t? Yes <u>*X No</u> horizon. However, there is
Type: none Depth (inche	er (if observed): e es): <u>n/a</u> not meet an indicat	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Other (Explain in	t? Yes <u>*X No</u> horizon. However, there is
Type: none Depth (inche	er (if observed): e es): <u>n/a</u> not meet an indicat	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Other (Explain in Is Hydric Soil Present Observed below the A	t? Yes <u>*X No</u> horizon. However, there is
Type: none Depth (inche	er (if observed): e es): <u>n/a</u> not meet an indicat	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Other (Explain in Is Hydric Soil Present Observed below the A	t? Yes <u>*X No</u> horizon. However, there is
Type: none Depth (inche	er (if observed): e es): <u>n/a</u> not meet an indicat	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Other (Explain in Is Hydric Soil Present Observed below the A	t? Yes <u>*X No</u> horizon. However, there is
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wet	er (if observed): e es): n/a not meet an indicat land hydrology on a	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Other (Explain in Is Hydric Soil Present Observed below the A	t? Yes <u>*X No</u> horizon. However, there is
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wet)	er (if observed): e es): n/a not meet an indicat land hydrology on a	tor, but is co	nsidered a problem s	soil because n	o redox feat	ures were	Is Hydric Soil Present observed below the A lso it is in a concave de	t? Yes <u>*X</u> No horizon. However, there is epression.
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of weth HYDROLOGY	er (if observed): e es): n/a not meet an indicate and hydrology on a	tor, but is co aerial photog	nsidered a problem s graphy and area meet	soil because n	o redox feat	ures were	Is Hydric Soil Present observed below the A lso it is in a concave de	t? Yes <u>*X No</u> horizon. However, there is
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of weth HYDROLOGY Wetland Hydrolog	er (if observed): e es): n/a not meet an indicate and hydrology on a gy Indicators: s (minimum of one is	tor, but is co aerial photog	nsidered a problem s raphy and area meet eck all that apply)	soil because n ts hydrophytic	o redox feat vegetation o	ures were	Is Hydric Soil Present observed below the A lso it is in a concave de	t? Yes *X No horizon. However, there is epression. tors (minimum of two required)
Restrictive Laye Type:none Depth (inche Remarks: Does evidence of wet) HYDROLOGY Wetland Hydrolog Primary Indicator Surface We High Water	er (if observed): e es): n/a not meet an indicatelland hydrology on a gy Indicators: s (minimum of one is later (A1) r Table (A2)	tor, but is co aerial photog	nsidered a problem s praphy and area meet eck all that apply) Water-Sta Aquatic Fa	soil because n ts hydrophytic ined Leaves (B auna (B13)	o redox feat vegetation o	ures were	Secondary Indicat Secondary Indicat Surface So X Drainage F Moss Trim	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wetligh Water Saturation (er (if observed): e es): n/a not meet an indicate aland hydrology on a gy indicators: es (minimum of one is ater (A1) r Table (A2) (A3)	tor, but is co aerial photog	eck all that apply) Aquatic Fa Marl Depo	soil because n ts hydrophytic ined Leaves (B auna (B13) sits (B15)	o redox feat vegetation o	ures were	Secondary Indicat Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wet) HYDROLOGY Wetland Hydrolog Primary Indicator. Surface We High Water Saturation (Water Mark	er (if observed): e es): n/a not meet an indicate and hydrology on a set of the set of t	tor, but is co aerial photog	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen	soil because n ts hydrophytic ined Leaves (B auna (B13) sits (B15) Sulfide Odor (C	o redox feat vegetation o	ures were riteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Bu	t? Yes *X No horizon. However, there is epression. tors (minimum of two required pil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8)
Restrictive Laye Type:	er (if observed): e es): n/a not meet an indicate and hydrology on a second sec	tor, but is co aerial photog	eck all that apply) Water-Sta Aquatic Fa Marl Depo	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (C	o redox feat vegetation o 9) 11) n Living Root	ures were riteria. A	Secondary Indicates Surface So Z Drainage F Moss Trim Dry-Seaso Crayfish Bu Saturation	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) In Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetle HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wa High Water High Water Saturation (Water Mark Sediment D Drift Deposi	er (if observed): e es): n/a not meet an indicate and hydrology on a second sec	tor, but is co aerial photog	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F	soil because n ts hydrophytic ined Leaves (B auna (B13) sits (B15) Sulfide Odor (C	o redox feat vegetation of 9) 11) n Living Roote	ures were criteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish B Saturation Stunted or	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Wetland Hydrotor Surface Wetl High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat o Iron Deposi	er (if observed): e es): n/a not meet an indicate an indicate and hydrology on a set an indicate and hydrology on a set and indicate (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tor, but is co aerial photog	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (Chizospheres or neduced Iror n Reduction in Surface (C7)	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were criteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Bo Saturation Stunted or X Geomorph Shallow Ac	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Wetland Hydrolog Primary Indicator: Surface Wa High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi *X	er (if observed): e es): n/a not meet an indicate and hydrology on a set (A1) r Table (A2) (A3) cs (B1) Deposits (B2) cits (B3) or Crust (B4) its (B5) Visible on Aerial Ima	tor, but is co aerial photog s required: ch	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (C Rhizospheres or of Reduced Iror n Reduction in	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were criteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Be Saturation Stunted or X Geomorph Shallow Ad Microtopog	t? Yes *X No horizon. However, there is epression. tors (minimum of two required pil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
Restrictive Laye Type: none Depth (inche Remarks: Does rvidence of wetl HYDROLOGY Wetland Hydrolog Primary Indicator: Surface Wath High Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat on Iron Deposi *X	er (if observed): e es): n/a not meet an indicate an indicate and hydrology on a set an indicate and hydrology on a set and indicate (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	tor, but is co aerial photog s required: ch	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (Chizospheres or neduced Iror n Reduction in Surface (C7)	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were criteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Be Saturation Stunted or X Geomorph Shallow Ad Microtopog	t? Yes *X No horizon. However, there is epression. tors (minimum of two required) bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Vetland Hydrolog Primary Indicator Surface Wetligh Water Saturation (Water Mark Sediment D Drift Deposi Algal Mat to Iron Deposi Inundation (Sparsely Ve	er (if observed): e es): n/a not meet an indicate and hydrology on a second and hydrology on a s	tor, but is co aerial photog s required: ch	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (Chizospheres or neduced Iror n Reduction in Surface (C7)	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were criteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Be Saturation Stunted or X Geomorph Shallow Ad Microtopog	t? Yes *X No horizon. However, there is epression. tors (minimum of two required pil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
Restrictive Laye Type: none Depth (inche Remarks: Does Evidence of wetl HYDROLOGY Wetland Hydrolo Primary Indicator Surface Water Mark Sediment Drift Deposi Algal Mat of Iron Deposi *X Inundation Sparsely Vetel Gurface Water Pr	er (if observed): e es): n/a not meet an indicate aland hydrology on a set aland hydrology on a	tor, but is co aerial photog s required: ch gery (B7) urface (B8)	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	ined Leaves (B suna (B13) sits (B15) Sulfide Odor (C Rhizospheres of Reduced Iror of Reduced Iror on Reduction in Surface (C7) olain in Remark	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were criteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Be Saturation Stunted or X Geomorph Shallow Ad Microtopog	t? Yes *X No horizon. However, there is epression. tors (minimum of two required pil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Wetland Hydrolo Primary Indicator Surface Water Saturation (Water Mark Sediment D Drift Deposi Algal Mato Iron Deposi *X Inundation (Sparsely Ve Field Observatio Surface Water Pr Water Table Pres	gy Indicators: s (minimum of one is ater (A1) r Table (A2) (A3) ss (B1) Deposits (B2) sits (B3) or Crust (B4) its (B5) Visible on Aerial Imale getated Concave Scons: resent? Yesent? Yesent? Yesent? Yesent? Yesent?	gery (B7) urface (B8)	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (Chizospheres or Reduced Irror n Reduction in Surface (C7) plain in Remark	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were rriteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Be Saturation X Geomorph Shallow Ac Microtopog X FAC-Neutr	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Wetland Hydrolog Primary Indicator. Surface Water High Water Saturation (Water Mark Sediment D Drift Deposi Iron Deposi Tield Observatio Surface Water Pr Vater Table Prese Saturation Preser	gy Indicators: s (minimum of one is ater (A1) r Table (A2) (A3) ss (B1) Deposits (B2) its (B3) or Crust (B4) its (B5) Visible on Aerial Imale getated Concave States (B3) or sesent? Tesent? Type Sent? Type Type Type Type Type Type Type Type	tor, but is co aerial photog s required: ch gery (B7) urface (B8)	eck all that apply) Water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (Chizospheres or Reduced Irror n Reduction in Surface (C7) plain in Remark	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	ures were rriteria. A	Secondary Indicat Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Be Saturation Stunted or X Geomorph Shallow Ad Microtopog	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetl HYDROLOGY Wetland Hydrolo Primary Indicator Surface Wetligh Water Mark Sediment D Drift Deposi Algal Mat to Drift Deposi *X Inundation ' Sparsely Veter Inchebos ield Observatio Surface Water Presenturation Preser Saturation Preser includes capillan	er (if observed): e es): n/a not meet an indicate an indicate and hydrology on a second and hydr	gery (B7) urface (B8) esN esN	eck all that apply) — Water-Sta — Aquatic Fa — Marl Depon — Oxidized F — Presence — Recent Iro — Thin Muck — Other (Exp	ined Leaves (Bauna (B13) sits (B15) Sulfide Odor (CR) Rizospheres or of Reduced Iror n Reduction in Surface (C7) olain in Remark	o redox feat vegetation of 9) 11) n Living Root: n (C4) Tilled Soils (Cs)	s (C3)	Secondary Indicates Surface So Z Drainage F Moss Trim Dry-Seaso Crayfish Bu Saturation Stunted or X Geomorph Shallow A Microtopog X FAC-Neutr	t? Yes *X No horizon. However, there is epression. tors (minimum of two required bil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) currows (C8) Visible on Aerial Imagery (C9 Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)
Restrictive Laye Type: none Depth (inche Remarks: Does evidence of wetle HYDROLOGY Wetland Hydrolo Primary Indicator Surface Water High Water Saturation (Water Mark Sediment D Drift Deposi *X Inundation ' Sparsely Ve Field Observatio Surface Water Pr Vater Table Preser includes capillan Describe Recorde	er (if observed): e es): n/a not meet an indicate an indicate and hydrology on a second and hydr	gery (B7) urface (B8) esN ge, monitoring	eck all that apply) water-Sta Aquatic Fa Marl Depo Hydrogen Oxidized F Presence Recent Iro Thin Muck Other (Exp	ined Leaves (Bauna (B13) Sulfide Odor (CR) Rhizospheres or of Reduced Iror n Reduction in Surface (C7) Iolain in Remark	o redox feat vegetation of 9) 11) n Living Roote n (C4) Tilled Soils (C	s (C3) Is Wetl	Secondary Indicates Surface So X Drainage F Moss Trim Dry-Seaso Crayfish Bustanted or X Geomorph Shallow Ac Microtopog X FAC-Neutr	t? Yes *X No horizon. However, there is epression. tors (minimum of two required oil Cracks (B6) Patterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 Stressed Plants (D1) ic Position (D2) quitard (D3) graphic Relief (D4) al Test (D5)

roject/Site: 29.3-Acre Site Southeast of S	TH 59 &CTH X	City/County:	Waul	kesha/Waukesha Sampling Date: 7/22/15
pplicant/Owner: Ka	pur & Associates, Inc	С.		State: WI Sampling Point: 17
vestigator(s): Tina M. Myers, P	WS	Section	Township,	Range: SE 1/4 Sec 17, T6N, R19E
ndform (hillslope, terrace, etc.):	hillslope		Local	relief (concave, convex, none):convex
ope (%): 2-3% Lat:		Long:		Datum:
il Map Unit Name: Brookston silt loam, 0-3%	slopes (BsA)			WWI classification: none
e climatic/hydrologic conditions on the site typical t	for this time of year?	Yes X	No	(If needed, explain any answers in Remarks.)
e Vegetation N Soil N or Hydrology				Are "Normal Circumstances" present? Yes X No
e Vegetation N Soil N or Hydrology				(If needed, explain any answers in Remarks.)
JMMARY OF FINDINGS - Attach site map si			s. transec	ts. important features, etc.
	NoX			ed Area within
Hydric Soil Present? Yes	NoX	a '	Wetland?	Yes No X none - Upland
	NoX			onal victaria one ib.
Remarks: (Explain alternative procedures here or in The grass is growing upslope and the area lacks	n a separate report,) L s wetland hydrology.	ocated within	a degraded	d "old-field" which is dominated by invasive reed canary grass.
EGETATION - Use scientific names of plants				
	Absolute %	Dominant	Indicator	Dominance Test worksheet:
ree Stratum (Plot size: equiv to 30' radius)	Cover	Species?	Status	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)
	0%	= Total Cover		
onling/Shruh Stratum (Platicize: equiv to 15' radio		rotal core,		Prevalence Index worksheet:
apling/Shrub Stratum (Plot size: equiv to 15' radiu		N	FAC	Total % Cover of: Multiply by:
Rhamnus cathartica	370		FAC	OBL species 3 x1 = 3
t				
			_	
		-		
			-	Column Totals: 124 (A) 408 (B) Prevalence Index = B/A = 3.29
	3%	= Total Cover		
erb Stratum (Plot size: equiv to 5' radius)				Hydrophytic Vegetation Indicators:
Solidago canadensis	70%	Υ	FACU	Rapid Test for Hydrophytic Vegetation
Phalaris arundinacea	30%	Υ	FACW	Dominance Test is >50%
Cirsium arvense		N	FACU	Prevalence Index is ≤3.0¹
Solidago gigantea	5%	N	FACW	Morphological Adaptations¹ (Provide supporting data in
Symphyotrichum puniceum	3%	N	OBL	Remarks or on a separate sheet)
Agrostis gigantea	3%	N	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
				¹Indicators of hydric soil and wetland hydrology must be present,
		1		unless disturbed or problematic.
).				Definitions of Vegetation Strata:
i				Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast
2				height (DBH), regardless of height.
	121%	= Total Cover		Sapling/shrub - Woody plants less than 3 in. DBH and greater tha 3.28 (1m) tall
loody Vine Stratum (Plot size: equiv to 30' radius)				Herb - All herbaceous (non-woody) plants, regardless of size, and
-			-	woody plants less than 3.28 ft tall.
			-	Woody vines - All woody vines greater than 3.28 ft in height.
			_	Is Hydrophytic Vegetation
	0%	= Total Cover		Present? Yes No X

Project/Site:	29.3-Acre Site Southeast of STH 59	& CTH X	City/County	Wau	kesha/Waukesha	Sampling Date:	7/22/15
Applicant/Owner:	Kapur &	Associates, In	c.		State: WI	Sampling Point:	18
nvestigator(s):	Tina M. Myers, PWS		Section	, Township	, Range:	SE 1/4 Sec 17, T6N	N, R19E
andform (hillslope	e, terrace, etc.): de	pression		Local	relief (concave, convex	x, none):	concave
Slope (%):(0% Lat:		Long:			Datum:	
Soil Map Unit Nam	e: Brookston silt loam, 0-3% slopes	(BsA)			WWI class	sification: S3/E2K	
Are climatic/hydrole	ogic conditions on the site typical for this	time of year?	Yes X	No	(If needed, explain an	y answers in Remarks.)	
re Vegetation	N Soil N or Hydrology N	significantly				stances" present? Ye	
Are Vegetation		naturally pro			(If needed, explain an	y answers in Remarks.))
	THE PROPERTY OF THE PROPERTY O				4		
SUMMARY OF F	INDINGS - Attach site map showing	g sampling p	oint location	s, transec	its, important feature	es, etc.	
Hydrophytic Vege	etation Present? Yes X	No		the Comp	led Area within		
Hydric Soil Preser			1 10		Yes	XNo	
		No —			ional Wetland Site ID:		N-3
			lata aniat in In			est) mandaus daminatas	d by investue read
	n alternative procedures here or in a sepa he hydroperiod is intermittent here.	arate report.) D	ata point is io	ated withi	n a degraded fresh (w	et) meadow dominated	a by invasive reed
cultury grass. 11	na nyaroperioa is intermittent nere.						
VECETATION	Lice asigntific names of plants						
VEGETATION -	Use scientific names of plants.				·		
		Absolute %	Dominant	Indicator	Dominance Test wor	:ksheet:	
Tree Stratum (Plo	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	•	
1.					Are OBL, FACW, or	FAC:	1 (A)
2		4					
3					Total Number of Don	ninant Species	
4					Across Ail Strata:		1 (B)
5							
6					Percent of Dominant	Species That Are	
7				4	OBL, FACW, or FAC		100% (A/B)
		0%	= Total Cover				
Sapling/Shrub Stra	atum (Plot size; equiv to 15' radius)				Prevalence Index wo		
					Total % Cover of:		ply by:
				_	OBL species		
3							
4			<u> </u>		1		
5				_	FACU species		
6					UPL species	x 5 =	
7					Column Totals:		(B)
		0%	= Total Cover		Prevalence Inc		
Herb Stratum (Plo	ot size: equiv to 5' radius)				Hydrophytic Vegetation		
1. Phalaris arun	dinacea	100%	Y	FACW	X Rapid Test for Hyd	drophytic Vegetation	
2. Solidago cana		10%	N	FACU	X Dominance Test is		
3. Solidago giga	antea	5%	N	FACW	Prevalence Index	is ≤3.0¹	
4.					, ,	aptations¹ (Provide supp	orting data in
5					Remarks or on a s		
					Problematic Hydro	ophytic Vegetation¹ (Exp	olain)
				_	Indicators of build	والمعالمة المعالمة العمالة	ou much be necessary
					unless disturbed or p	soil and wetland hydrolo problematic	gy must be present,
9							
					Definitions of Vegeta		diameter at beset
11				نے	height (DBH), regard	3 in. (7.6cm) or more in	ulameter at preast
12					1 , ,,	-	DBH and grapher than
		115%	= Total Cover		3.28 (1m) tall.	dy plants less than 3 in.	DBH and greater than
Noody Vine Stratu	um (Plot size: equiv to 30' radius)					- (
v					woody plants less that	s (non-woody) plants, re an 3 28 ft tall	gardiess of size, and
							2 20 ft in haisht
		-			vvoody vines - All wo	ody vines greater than 3	o.∠o π in neignt.
1		-		_	Is Hydrophytic Vege	etation	
		0%	= Total Cover		Present?		Yes_X_No
Remarks: (Include	e photo numbers here or on a separate s		int is located v	vithin a dec	graded fresh (wet) mea		
grass.				-	- , , , , , ,	,	

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: USGS Map (Figure 1, Appendix 1), WDNR Surface Water Data Viewer Map (Figure 3, Appendix 1), aerial photos from 2000, 2005, 2007 and 2010 (Figures 4A-D, Appendix 1), NOAA Precip Maps (Figure 5A-C, Appendix 1)

normal range. Farming was avoided here based on older aerial photography (see 2000 aerial)

Remarks: WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5B) also indicates normal range, however it is the dry end of the

WETS Data (Appendix 2)

Project/Site:	29.3-Acre Site Southeast of STH 59 &		City/County	Wau	kesha/Waukesha	Sampling Date: 7/22/1	
Applicant/Owner:		ssociates, In			State: WI		
Investigator(s):	Tina M. Myers, PWS		Section		, Range:	SE 1/4 Sec 17, T6N, R19E	
Landform (hillslope,		Islope			relief (concave, convex		
Slope (%): 2-3	_		Long:			Datum:	
	Brookston silt loam, 0-3% slopes (V V	NI-		ification: none	
	gic conditions on the site typical for this ti	•		No	(If needed, explain any		
	N Soil N or Hydrology N				Are "Normal Circumst		·
Are Vegetation	N Soil N or Hydrology N	naturally pro	blematic?		(If needed, explain any	y answers in Remarks)	
SUMMARY OF FI	NDINGS - Attach site map showing	sampling p	oint locations	s, transec	ts, important feature	es, etc.	
Hydrophytic Vegeta	ation Present? Yes X N	·	Is	the Sampl	led Area within		
Hydric Soil Present	? Yes N	_ X	a	Wetland?	Yes	No X	
Wetland Hydrology	Present? Yes N	X		If yes, opti	ional Wetland Site ID:	none - Upland	
Remarks: (Explain	alternative procedures here or in a separ	ate report.)	Plant communi	ity is a den	se upland scrub/shrul	dominated by invasive FAC spec	cies.
VEGETATION - L	Use scientific names of plants.						
					Dominance Test worl	ksheet:	
Tree Stratum (Plot	size: equiv to 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status			
· ,	' '		Оресно.	Oldido	Number of Dominant Are OBL, FACW, or F		O)
					7.110 002, 171011, 071		,
					Total Number of Dom	ainant Species	
					Across All Strata:	4 (B	3)
5.					7.07007111011011		,
6			-		Percent of Dominant	Species That Are	
7					OBL, FACW, or FAC:	•	√B)
-		0%	= Total Cover		- 052,171011,011710		,
Sanling/Shrub Strat	tum (Plot size: equiv to 15' radius)	- 074	Total Covol		Prevalence Index wo	rksheet:	
1. Rhamnus cath	· · · · · · · · · · · · · · · · · · ·	50%	Υ	FAC	Total % Cover of:	Multiply by:	
2. Lonicera X bel		50%	<u> </u>	FACU	OBL species	x 1 =	
3. Cornus raceme		40%	Y	FAC	1	x 2 =	
4.		-1070			1	x 3 =	
5			-		FACU species	x 4 =	
-					UPL species	x 5 =	
7					Column Totals:	(A) (B))
		140%	= Total Cover		Prevalence Inc		'
Herb Stratum (Plot	size: equiv to 5' radius)				Hydrophytic Vegetation	on Indicators:	
1. Rhamnus cath	, ,	40%	Υ	FAC		Irophytic Vegetation	
2. Lonicera X beli		3%	N	FACU	X Dominance Test is	_	
3.	-				Prevalence Index i		
4.			-		Morphological Ada	aptations¹ (Provide supporting data in	n
5.					Remarks or on a s		'
						phytic Vegetation¹ (Explain)	
7.					-		
8.					Indicators of hydric s	oil and wetland hydrology must be p	resent,
9.					unless disturbed or pr	roblematic.	
10					Definitions of Vegetat	ion Strata:	
					1	3 in, (7.6cm) or more in diameter at t	breast
12					height (DBH), regardl	ess of height	
		43%	= Total Cover		Sapling/shrub - Wood 3.28 (1m) tall	ly plants less than 3 in. DBH and gre	ater than
	n (Plot size: equiv to 30' radius)	601		E. C		(non-woody) plants, regardless of s	size and
1. Vitis riparia			N	FAC	woody plants less tha		and
						ody vines greater than 3.28 ft in heig	ht
3.				-	7700dy villes - All WOO	55, Villes greater than 5.20 it in heigh	
4.					Is Hydrophytic Vege	tation	
		2%	= Total Cover		Present?	Yes X	No
Remarks: (Include	photo numbers here or on a separate she	et) Plant co	mmunity is a d	legraded u	pland scrub shrub do	minated by invasive FAC species.	

Depth	Matrix		Red	dox Features			
(inches) Color (m		Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-17 10YR		Goldi (Malet)		.,,,,,		silt loam	
17-24 10YR		-		_		silt loam	
17-24 1011	3/2 100/6			-		- Cite Iouini	
				-			
				_			
				_			
Type: C=Concentration, D=I	Depletion, RM=Reduc	ced Matrix, MS=Maske	d Sand Grain	s.		²Location: P	L=Pore Lining, M=Matrix.
lydric Soil Indicators:						Indicators for Problema	itic Hydric Soils³:
Histosol (A1)		Dark Surfac	e (S7) (LRR F	R, MLRA 1491	3)	2 cm Muck (A10)	LRR K, L, MLRA 149B)
Histic Epipedon (A2)		Polyvalue B	elow Surface	(S8) (LRR R,	MLRA 149B	Coast Prairie Red	ox (A16) (LRR K, L, R)
Black Histic (A3)		Thin Dark S	urface (S9) (L	RR R, MLRA	149B)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Hydrogen Sulfide (A4)			ky Mineral (F1			Dark Surface (S7)	(LRR K, L, M)
Stratified Layers (A5)			ed Matrix (F2)		L-6		Surface (S8) (LRR K, L)
Depleted Below Dark S	Surface (A11)	Depleted Ma	, ,	,		Thin Dark Surface	
Thick Dark Surface (A1	, ,		Surface (F6)		-		lasses (F12) (LRR K, L, R)
Sandy Mucky Mineral (\$,		ırk Surface (F	7)	-		ain Soils (F19) (MLRA 149B)
			essions (F8)	• /		Red Parent Mater	
Sandy Gleyed Matrix (S	p 4)	Nedox Depi	essions (1 0)			Very Shallow Dark	, ,
Sandy Redox (S5)					-	Mesic Spodic (TA	
Stripped Matrix (S6)	t P t affect	land at a management		diate subsections	-		
					cohlomotio		
3Indicators of hydrophytic ve	getation and wetland	nydrology must be pre	sent, unless t	disturbed or pr	roblematic	Other (Explain in I	verilariks)
³ Indicators of hydrophytic ve Restrictive Layer (if observe		nydrology must be pre	sent, unless t	aisturbed or pi	roblematic.	Other (Explain in I	(emarks)
		nydrology must be pre	sent, unless t	disturbed or pr	roblematic	Other (Explain in I	(Gillarks)
Restrictive Layer (if observed Type: none Depth (inches): n/a	ed):		sent, unless t	disturbed of pl		Is Hydric Soil Present	
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criteri	ed):		sent, uniess c	asturbed of pl			
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criteric HYDROLOGY	ed): ion is not met. Soils		sent, uniess c	asturbed of pl		ls Hydric Soil Present	? Yes No_
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil critering HYDROLOGY	ed): ion is not met. Soils	are dry.	sent, uniess c	aisturbed of pl		Is Hydric Soil Present	? Yes No
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion HYDROLOGY Vetland Hydrology Indicators (minimum	ed): ion is not met. Soils	are dry.	ned Leaves (Is Hydric Soil Present Secondary Indicat Surface So	? Yes No_
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil critering HYDROLOGY	ed): ion is not met. Soils	are dry.	ned Leaves (I			Secondary Indicat Surface Sc Drainage F Moss Trim	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	ed): ion is not met. Soils s:	eck all that apply) Water-Stai Aquatic Fa Marl Depo	ned Leaves (I una (B13) sits (B15)	B9):		Secondary Indicat Surface So Drainage F Moss Trim Dry-Season	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) in Water Table (C2)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ed): ion is not met. Soils s: of one is required; ch	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen	ned Leaves (l una (B13) sits (B15) Sulfide Odor (B9)		Secondary Indicat Surface Scondary Trim Dry-Season Crayfish Bu	Pres No
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	ed): ion is not met. Soils s: of one is required; ch	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres o	B9) (C1) on Living Roo		Secondary Indicat Surface So Drainage F Moss Trim Dry-Seaso Crayfish Bt Saturation	rs (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ed): ion is not met. Soils s: of one is required; ch	eck all that apply) Water-Stai Aquatic Fa Marl Depo. Hydrogen Oxidized R Presence	ned Leaves (I una (B13) Sulfide Odor (hizospheres of Reduced In	B9) (C1) on Living Roo on (C4)	ts (C3)	Secondary Indicat Surface So Drainage F Moss Trim Dry-Seaso Crayfish Bu Saturation Stunted or	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Inches of the	ed): ion is not met. Soils s: of one is required; ch	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence	ned Leaves (I una (B13) Sulfide Odor (hizospheres of Reduced In	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface So Drainage F Moss Trim Dry-Seaso Crayfish Bu Saturation Stunted or	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) wrisble on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	ed): ion is not met. Soils s: of one is required; ch	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence c Recent Iro Thin Muck	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of f Reduced Ird n Reduction ir	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Crayface Scondary Indicat Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	ed): ion is not met. Soils s: of one is required; ch) erial Imagery (B7)	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence c Recent Iro Thin Muck	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of f Reduced Ind n Reduction in Surface (C7)	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Crayface Scondary Indicat Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) nrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3)
rype: none Depth (inches): n/a emarks: Hydric soil criteri IYDROLOGY /etland Hydrology Indicators/ rimary Indicators (minimum) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ac Sparsely Vegetated Co	ed): ion is not met. Soils s: of one is required; ch) erial Imagery (B7)	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence c Recent Iro Thin Muck	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of f Reduced Ind n Reduction in Surface (C7)	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Crayface Scondary Indicat Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog	ors (minimum of two required) ii Cracks (B6) atterns (B10) Lines (B16) in Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vegetated Confidence of the Primary Indicators (B5) Inundation Visible on As Sparsely Vege	ed): ion is not met. Soils s: of one is required; ch perial Imagery (B7) ncave Surface (B8)	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of Reduced In n Reduction ir Surface (C7) lain in Remar	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Crayface Scondary Indicat Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog	ors (minimum of two required) ii Cracks (B6) atterns (B10) Lines (B16) in Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
Restrictive Layer (if observed Type: none Depth (inches): n/a Depth (inches): n/a Remarks: Hydric soil criterion of the Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Act Sparsely Vegetated Confided Observations: Surface Water Present?	s: of one is required: ch erial Imagery (B7) ncave Surface (B8)	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence Recent Iro Thin Muck Other (Exp	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of f Reduced Into n Reduction in Surface (C7) lain in Remar	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Crayface Scondary Indicat Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog	ors (minimum of two required) ii Cracks (B6) atterns (B10) Lines (B16) in Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the Property	s: of one is required: ch erial Imagery (B7) ncave Surface (B8)	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence Recent Iro Thin Muck Other (Exp	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of f Reduced In Surface (C7) lain in Remar ches):	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Surface Scondary Indicat Crayface Scondary Indicat Moss Trim Dry-Season Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the control of	ed): ion is not met. Soils s: of one is required; ch price of the control of t	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence of Recent Iro Thin Muck Other (Exp	ned Leaves (I una (B13) Sulfide Odor (hizospheres of Reduccion in Surface (C7) Iain in Remar ches):	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3)	Secondary Indicate Surface Son Drainage For Moss Trim Dry-Season Crayfish Busturation Stunted or Geomorph Shallow Accomplete Sh	7 Yes No Dors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) in Water Table (C2) inrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5) 7 Yes No
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the content of	s: of one is required; ch perial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes Neam gauge, monitorin	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence Recent Iro Thin Muck Other (Exp	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of Reduced Irr n Reduction ir Surface (C7) lain in Remar	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3) (C6) Is Wetlar	Secondary Indicat Surface So Drainage F Moss Trim Dry-Season Crayfish Bi Saturation Stunted or Geomorph Shallow Ac Microtopog FAC-Neutr	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5) ? Yes No ddix 1), WDNR Surface Water
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the content of	s: of one is required; ch perial Imagery (B7) ncave Surface (B8) Yes Yes Yes Yes Neam gauge, monitorin	eck all that apply) Water-Stai Aquatic Fa Marl Depo Hydrogen Oxidized R Presence Recent Iro Thin Muck Other (Exp	ned Leaves (I una (B13) sits (B15) Sulfide Odor (hizospheres of Reduced Irr n Reduction ir Surface (C7) lain in Remar	B9) (C1) on Living Roo on (C4) n Tilled Soils (ts (C3) (C6) Is Wetlar	Secondary Indicat Surface So Drainage F Moss Trim Dry-Season Crayfish Bi Saturation Stunted or Geomorph Shallow Ac Microtopog FAC-Neutr	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) prows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)
Restrictive Layer (if observed Type: none Depth (inches): n/a Remarks: Hydric soil criterion of the control of	s: of one is required: ch perial Imagery (B7) ncave Surface (B8) Yes Yes Yes Neam gauge, monitorin Appendix 1), aerial	water-Stain Aquatic Fa Marl Depo Hydrogen Oxidized Recent Iro Thin Muck Other (Exp. Iro X Depth (ir. X Depth	ned Leaves (i una (B13) sits (B15) Sulfide Odor (hizospheres of Reduced Irr n Reduction irr Surface (C7) lain in Remar ches): ches): ches): revious inspe	B9) on Living Roo on (C4) n Tilled Soils (rks)	ts (C3) C6) Is Wetlau illable: USGS	Secondary Indicat Surface So Drainage F Moss Trim Dry-Seaso Crayfish Bu Saturation Stunted or Geomorph Shallow Ac Microtopog FAC-Neutr	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2) irrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5) ? Yes No

Project/Site:	29.3-Acre Site Southeast of STH 59 &	CTH X	City/County:	Waul	(esha/Waukesha	Sampling Date:	7/22/15
Applicant/Owner:		ssociates, Inc.			State: WI	Sampling Point:	20
Investigator(s):	Tina M. Myers, PWS			, Township,	Range:	SE 1/4 Sec 17, T6	N, R19E
Landform (hillslope	, terrace, etc.): groundwate	er slope wetlar	nd	Local	relief (concave, convex	, none):	convex
Slope (%):10	0% Lat:		Long:			Datum:	
Soil Map Unit Name	e: Brookston silt loam, 0-3% slopes	(BsA)			WWI class	-	
Are climatic/hydrolo	ogic conditions on the site typical for this ti	me of year?	Yes X	No	(If needed, explain any	answers in Remarks	.)
Are Vegetation	N Soil N or Hydrology N	_significantly di	isturbed?		Are "Normal Circumst	ances" present?	Yes X No
Are Vegetation		naturally prob			(If needed, explain any	answers in Remarks	;)
						4-	
SUMMARY OF F	INDINGS - Attach site map showing	sampling po	int locations	s, transect	s, important feature	s, etc.	
Hydrophytic Veget	tation Present? Yes X N	lo		41 01	. d A		
				tne Sampi Wetland?	ed Area within Yes	X No	
Hydric Soil Preser		lo	"		onal Wetland Site ID:		W-3
, -							
Remarks: (Explain	n alternative procedures here or in a separ	rate report.) De	egraded groui	ndwater sic	ope wetland dominated	d by invasive reed ca	anary grass.
VEGETATION -	Use scientific names of plants.						
1		Absolute %	Dominant	Indicator	Dominance Test work	ksheet:	
Tree Stratum (Ploi	t size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	Species That	
l ₄					Are OBL, FACW, or F		1 (A)
					Total Number of Dom	ninant Species	
					Across All Strata:	illiant opeoles	1 (B)
-				"			` '
					Percent of Dominant	Species That Are	
7					OBL, FACW, or FAC:	•	100% (A/B)
-			= Total Cover				
Sanling/Shrub Str	atum (Plot size: equiv to 15' radius)		10121 00101		Prevalence Index wor	rksheet:	
1, "	·				Total % Cover of:		Itiply by:
					OBL species		
0					FACW species		
					FAC species		
_					FACU species		
					UPL species	×5=	
7					Column Totals:		(B)
-		0%	= Total Cover		Prevalence Inc		(-/
Horb Strotum (Pla	ot size: equiv to 5' radius)	<u> </u>	- Total Cover		Hydrophytic Vegetation		
		100%	Υ	FACW	X Rapid Test for Hyd		
1. Phalaris arun	dinacea	10078		TAOW	X Dominance Test is		
2.			-	_	Prevalence Index		
3.			-				
4			_		Remarks or on a s	aptations¹ (Provide su	pporting data in
_						phytic Vegetation¹ (E	vnlain)
_					_ Floblematic Hydro	phytic vegetation (L	Apidity
-				-	**Indicators of hydric s	oil and wetland hydro	logy must be present,
			-		unless disturbed or pr		,
9.			_	-	Definitions of Vegetat	tion Strata:	
					Tree - Woody plants		in diameter at breast
			-		height (DBH), regardl		
12			7.10			_	n. DBH and greater than
		100%	= Total Cover		3,28 (1m) tall.	ay plants less than on	1. DDT and groater than
	um (Plot size: equiv to 30' radius)				, ,	(non-woody) plants	regardless of size, and
1					woody plants less that		regardless of size, and
				_			a 3 28 ft in height
-		-		_	Woody vines - All woo	ouy vines greater than	, o.zo it in neight.
4					Is Hydrophytic Vege	etation	
			= Total Cover		Present?		Yes_X_No
Remarks: (Include	e photo numbers here or on a separate sh	neet) Data poi	nt is located v	vithin a ded	raded fresh (wet) mea	adow groundwater s	lope wetland dominated
by invasive reed							

0-8 8-18	Matrix			Redo	x Features			
0-8	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
	10YR 2/1	100%	Browney	-	>1		muck	
	10YR 2/1	80%	2.5YR 3/6	20%	С	M	muck	
18-24	10YR 2/1	80%	10YR 4/6	20%	C	M	clayey muck	
				-				
							-	
				7				
				-				
				-	-			
				-				
					-			
Type: C=Concentra:	tion D=Depletion	n RM=Reduce	d Matrix, MS=Masked	Sand Grains			²Location: PL:	=Pore Lining, M=Matrix.
lydric Soil Indicato		I, I III I I I I I I I I I I I I I I I	a Matrix, MO Macket	Carra Crame			Indicators for Problemat	
X Histosol (A1)	15.		Dark Surface	(S7) (LRR R,	MI RA 1491	3)		RR K, L, MLRA 149B)
Histic Epipedon	(42)			low Surface (S				(A16) (LRR K, L, R)
	, ,			•				Peat (S3) (LRR K, L, R)
Black Histic (A3	•			ırface (S9) (LR y Mineral (F1)		1430)	Dark Surface (S7) (
Hydrogen Sulfic	• •				(LKK K, L)			irface (S8) (LRR K, L)
Stratified Layers		\44\		ed Matrix (F2)			Thin Dark Surface (
	Dark Surface (A	NIT)	Depleted Ma					asses (F12) (LRR K, L, R)
Thick Dark Surf			Redox Dark					
Sandy Mucky M				rk Surface (F7)	1		Red Parent Materia	n Soils (F19) (MLRA 149B)
Sandy Gleyed N	` '		Redox Depre	essions (F8)				
Sandy Redox (S	-						Very Shallow Dark	
Stripped Matrix							Mesic Spodic (TA6)	
Indicators of hydrop	hytic vegetation	and wetland h	ydrology must be pres	ent, unless dis	sturbed or pi	oblematic.	Other (Explain in Re	emarks)
Restrictive Layer (if	observed):							
Type: none								
Depth (inches):	n/a						Is Hydric Soil Present?	Yes X No
Remarks: Hydric so	il criterion is me	et.						
			<u> </u>					
HYDROLOGY								
	idicators:		2				Secondary Indicato	rs (minimum of two required)
etland Hydrology In		s required; che	ck all that apply)					rs (minimum of two required) Cracks (B6)
Vetland Hydrology In rimary Indicators (m	inimum of one is	s required; che		ed Leaves (B	9)		Secondary Indicato Surface Soil Drainage Pa	Cracks (B6)
Vetland Hydrology In	inimum of one is (A1)	s required; che	Water-Stair Aquatic Fau	ına (B13)	9)		Surface Soil Drainage Pa Moss Trim L	Cracks (B6) tterns (B10) ines (B16)
Vetland Hydrology In rimary Indicators (m Surface Water (High Water Tab X Saturation (A3)	inimum of one is (A1) ale (A2)	s required; che	Water-Stair Aquatic Fau Marl Depos	ına (B13) its (B15)			Surface Soil Drainage Pa Moss Trim L Dry-Season	Cracks (B6) tterns (B10) ines (B16) Water Table (C2)
Vetland Hydrology In Primary Indicators (m Surface Water (High Water Tab X Saturation (A3) Water Marks (B	inimum of one is (A1) ole (A2) 1)	s required; che	Water-Stair Aquatic Fau Marl Depos Hydrogen S	ina (B13) its (B15) iulfide Odor (C	1)	(02)	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8)
Vetland Hydrology In rimary Indicators (m Surface Water (high Water Tab X Saturation (A3) Water Marks (B Sediment Depo	inimum of one is (A1) ale (A2) 1) sits (B2)	s required; che	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized RI	ina (B13) its (B15) julfide Odor (C nizospheres on	1) Living Roo	ts (C3)	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9)
Vetland Hydrology In rimary Indicators (m Surface Water (a High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (F	inimum of one is (A1) le (A2) 1) sits (B2) 33)	s required; che	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized RI Presence o	ina (B13) its (B15) culfide Odor (C nizospheres on f Reduced Iron	1) Living Roo (C4)		Surface Soil Drainage Pa Moss Trim Dry-Season Crayfish Bur Saturation V Stunted or S	Cracks (B6) tterns (B10) ines (B16) was (B16) country (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1)
Vetland Hydrology In Primary Indicators (m Surface Water of High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cro	inimum of one is (A1) le (A2) 1) sits (B2) 33) ust (B4)	s required: che	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron	ina (B13) its (B15) culfide Odor (C nizospheres on f Reduced Iron Reduction in	1) Living Roo (C4)		Surface Soil Drainage Pa Moss Trim Dry-Season Crayfish Bur Saturation V Stunted or S	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Vetland Hydrology In Primary Indicators (m Surface Water (High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cr. Iron Deposits (E	inimum of one is (A1) le (A2) 1) sits (B2) 33) ust (B4)		Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck	ina (B13) its (B15) culfide Odor (C nizospheres on f Reduced Iron	1) Living Roo (C4) Filled Soils (Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2)
Vetland Hydrology In Primary Indicators (m Surface Water (d High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visit	inimum of one is (A1) (A2) (Be (A2) 1) sits (B2) 33) sst (B4) 35)	gery (B7)	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck	ina (B13) its (B15) culfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7)	1) Living Roo (C4) Filled Soils (Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4)
Vetland Hydrology Interimary Indicators (m Surface Water (d. High Water Tab. X. Saturation (A3) Water Marks (B. Sediment Depo. Drift Deposits (E. Algal Mat or Cru. Iron Deposits (E. Inundation Visit. Sparsely Vegeta	inimum of one is (A1) le (A2) 1) sits (B2) 33) st (B4) 55) ole on Aerial Ima	gery (B7)	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck	ina (B13) its (B15) culfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7)	1) Living Roo (C4) Filled Soils (Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4)
Vetland Hydrology Infrimary Indicators (m Surface Water (high Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visit Sparsely Vegeta	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	gery (B7) urface (B8)	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized Ri Presence o Recent Iron Thin Muck S Other (Expl	ina (B13) its (B15) iulfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks	1) Living Roo (C4) Filled Soils (Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4)
Vetland Hydrology Informary Indicators (m Surface Water (High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru- Iron Deposits (E Inundation Visit Sparsely Vegeta	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	gery (B7) urface (B8) es No	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	ina (B13) its (B15) ulfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks	1) Living Roo (C4) Filled Soils (Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4)
Vetland Hydrology Informary Indicators (m Surface Water (High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visik Sparsely Vegets ield Observations: urface Water Preservater Table Present	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	gery (B7) urface (B8) esNo esNo	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	ina (B13) its (B15) ulfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks ches):	1) Living Roo (C4) Filled Soils (C6)	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5)
Vetland Hydrology Infrimary Indicators (m Surface Water (d High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Inundation Visib Sparsely Vegeta ield Observations: Surface Water Present Vater Table Present Indudes capillary frin	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	gery (B7) urface (B8) es No es No es X	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized Ri Presence o Recent Iron Thin Muck Other (Expl	ina (B13) its (B15) iulfide Odor (C nizospheres on Reduction in Gurface (C7) ain in Remarks ches): ches): sthes): sthes	1) Living Roo (C4) Filled Soils (C6)	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5) YesX No
Vetland Hydrology Infirmary Indicators (m Surface Water (High Water Tab X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru- Iron Deposits (E Inundation Visit Sparsely Vegets Veter Table Present Vater Table Present? Includes capillary frin	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	gery (B7) urface (B8) es No es No ge, monitoring	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized Ri Presence o Recent Iron Thin Muck S Other (Expl	ina (B13) its (B15) ulfide Odor (C inizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks ches): ches): sevious inspect	1) 1 Living Roo (C4) Filled Soils (s) urface ions), if ava	Is Wetl	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral and Hydrology Present?	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5) Yes X No Itan 1), WDNR Surface Water
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Vetland Hydrology Informary Indicators (m. Surface Water (High Water Table X Saturation (A3) Water Marks (B Sediment Depo Prift Deposits (E Inundation Visit Sparsely Vegets (Veter Table Present? Includes capillary frin Describe Recorded Diverso Nata Viewer Map (Fivers Data (Append)	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	gery (B7) urface (B8) esNo esNo ge, monitoring ix 1), aerial pl	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck S Other (Expl	ina (B13) its (B15) iulfide Odor (C iulfide Odor (C nizospheres or f Reduced Iron Reduction in Surface (C7) ain in Remarks ches): ches): sevious inspect 5, 2007 and 20	1) 1 Living Roo (C4) Filled Soils (s) urface ions), if ava	Is Wetl	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral and Hydrology Present? S Map (Figure 1, Appendix 1), NOAA Precip	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5) YesX No dix 1), WDNR Surface Water Maps (Figure 5A-C, Append
Vetland Hydrology In Primary Indicators (m Surface Water (High Water Table X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Crulon Deposits (E Inundation Visit Sparsely Vegets Vater Table Present Vater Table Alexandre Viewer Map (Fivers Data (Appendiemarks: WETS data	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	gery (B7) urface (B8) es No es No es X No ge, monitoring ix 1), aerial pl	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck : Other (Expl	una (B13) its (B15) iulfide Odor (C iulfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks ches): ches): sevious inspect 5, 2007 and 20 une. NOAA	1) 1 Living Roo 1 (C4) Filled Soils (s) urface ions), if ava 010 (Figure	Is Wetlidable: USG s 4A-D, Ap	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral and Hydrology Present? S Map (Figure 1, Appending 1), NOAA Precip Indicates normal range, h	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5) Yes X No dix 1), WDNR Surface Water Maps (Figure 5A-C, Appendixowever it is the dry end of t
Vetland Hydrology In Primary Indicators (m Surface Water (High Water Table X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Crulon Deposits (E Inundation Visit Sparsely Vegets Vater Table Present Vater Table Alexandre Viewer Map (Fivers Data (Appendiemarks: WETS data	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	gery (B7) urface (B8) es No es No es X No ge, monitoring ix 1), aerial pl	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck : Other (Expl	una (B13) its (B15) iulfide Odor (C iulfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks ches): ches): sevious inspect 5, 2007 and 20 une. NOAA	1) 1 Living Roo 1 (C4) Filled Soils (s) urface ions), if ava 010 (Figure	Is Wetlidable: USG s 4A-D, Ap	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral and Hydrology Present? S Map (Figure 1, Appending 1), NOAA Precip Indicates normal range, h	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5) YesX No dix 1), WDNR Surface Water Maps (Figure 5A-C, Append
Vetland Hydrology In rimary Indicators (m Surface Water (High Water Table X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Inundation Visit Sparsely Vegets (Vater Table Present Vater Vat	inimum of one is (A1) (A1) (A1) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	gery (B7) urface (B8) es No es No es X No ge, monitoring ix 1), aerial pl	Water-Stair Aquatic Fat Marl Depos Hydrogen S Oxidized RI Presence o Recent Iron Thin Muck : Other (Expl	una (B13) its (B15) iulfide Odor (C iulfide Odor (C nizospheres on f Reduced Iron Reduction in Surface (C7) ain in Remarks ches): ches): sevious inspect 5, 2007 and 20 une. NOAA	1) 1 Living Roo 1 (C4) Filled Soils (s) urface ions), if ava 010 (Figure	Is Wetlidable: USG s 4A-D, Ap	Surface Soil Drainage Pa Moss Trim L Dry-Season Crayfish Bur Saturation V Stunted or S X Geomorphic Shallow Aqu Microtopogra X FAC-Neutral and Hydrology Present? S Map (Figure 1, Appending 1), NOAA Precip Indicates normal range, h	Cracks (B6) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) tressed Plants (D1) Position (D2) itard (D3) aphic Relief (D4) Test (D5) Yes X No dix 1), WDNR Surface Water Maps (Figure 5A-C, Append towever it is the dry end of te

	29.3-Acre Site Southeast of STH 59 &0		City/County:	Waul	kesha/Waukesha	Sampling Date: Sampling Point:	7/27/15
Applicant/Owner:		sociates, In		Tournahin	State: WI	SE 1/4 Sec 17, T6N	
Investigator(s):	Tina M. Myers, PWS		Section		Range:		
Landform (hillslope,	1	slope	Lane			c, none): Datum	
	5% Lat:	20.41	Long:			sification: none	
•	Brookston silt loam, 0-3% slopes (I		Yes X	No		y answers in Remarks.)	
	egic conditions on the site typical for this tir				Are "Normal Circumst		
	N Soil N or Hydrology N N Soil N or Hydrology N	naturally pro				y answers in Remarks.)	
Are Vegetation	N Soli N Ol Hydrology N	naturally pro	bierriado:		(II ricoded, explain an	, anowers in remarks.)	
SUMMARY OF FI	INDINGS - Attach site map showing	sampling p	oint locations	s, transect	ts, important feature	es, etc.	
Hydrophytic Veget			13	the Sampl	ed Area within		
Hydric Soil Presen			a '	Wetland?		NoX	
Wetland Hydrology	y Present? YesNo	X		If yes, option	onal Wetland Site ID:	none -	- Upland
Remarks: (Explain	alternative procedures here or in a separa	ate report.)	Plant communi	ty is degra	ded "old-field".		
VECETATION	Use scientific names of plants.						
VEGETATION -	Ose scientific flames of plants.				Dominance Test world	ksheet:	
Tree Stratum (Plot	t size: equiv to 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status			
`		_	- Сроско.	- Cidigo	Number of Dominant Are OBL, FACW, or F	•	1 (A)
0					Total Number of Dom	ninant Species	
			_		Across All Strata:	illiant opeolos	2 (B)
_					Percent of Dominant	Species That Are	
7.					OBL, FACW, or FAC:	•	50% (A/B)
		0%	= Total Cover	7			
Sapling/Shrub Stra	atum (Plot size: equiv to 15' radius)				Prevalence Index wo	rksheet:	
1.					Total % Cover of:	Multi	ply by:
					OBL species	10 x 1 =	10
3.					FACW species	30 x 2 =	60
4.					FAC species	2 x 3 =	6
					FACU species _	62 x 4 =	248
					UPL species	0 x 5 =	0
7.					Column Totals:	(A)	324 (B)
		0%	= Total Cover		Prevalence Inc		3.12
Herb Stratum (Plo	ot size: equiv to 5' radius)				Hydrophytic Vegetation		
1. Solidago cana		60%	Y	FACU	_	drophytic Vegetation	
2. Phalaris arund		30%	Υ	FACW	Dominance Test is		
3. Symphyotrich		10%	N	OBL	Prevalence Index		
4. Equisetum ar		2%	N	FAC	Morphological Ada Remarks or on a s	aptations¹ (Provide supp	porting data in
5 Cirsium arven	ISE	2%	N	FACU		separate sneet) ophytic Vegetation¹ (Exp	plain)
6		_			— Froblematic rivuit	philytic vegetation (Lx)	Jiairi)
7					Indicators of hydric s	soil and wetland hydrolo	oav must be present.
					unless disturbed or p	•	
10					Definitions of Vegetat	tion Strata:	
				-	Tree - Woody plants	3 in. (7.6cm) or more in	n diameter at breast
12.					height (DBH), regard	less of height.	
12.		104%	= Total Cover		Sapling/shrub - Wood	dy plants less than 3 in.	DBH and greater than
Woody Vine Stratu	ım (Plot size: equiv to 30' radius)	10470	10101 00101		3.28 (1m) tall		
					Herb - All herbaceous	s (non-woody) plants, re	egardless of size, and
					woody plants less that	an 3 28 ft tall,	
0					Woody vines - All wo	ody vines greater than	3 28 ft in height
4.	*			7			
-		00/	= Total Cause		Is Hydrophytic Vege	etation	Yes No X
		0%	= Total Cover		Present?		
	photo numbers here or on a separate she	eet.) Plant co	ommunity is a o	degraded o	ig-field dominated mo	ostly by Canada golde	nrod with reed canary
grass as a co-dor	ninant.						

0	~	

Sampling Point:

Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-25	10YR 2/1	100%					silt loam	
25-30	10YR 2/2	99%	5YR 5/6	1%	С	M	silty clay loam	
-		-						
Type: C=Conc	entration, D=Depletion	n, RM=Reduce	ed Matrix, MS=Masked	Sand Grains			²Location:	PL=Pore Lining, M=Matrix.
lydric Soil Ind	icators:						Indicators for Proble	matic Hydric Soils³:
Histosol (A	A1)		Dark Surface	(S7) (LRR R,	MLRA 1498	3)	2 cm Muck (A10)) (LRR K, L, MLRA 149B)
Histic Epir	pedon (A2)		Polyvalue Be	low Surface (S	88) (LRR R,	MLRA 149	B Coast Prairie Re	edox (A16) (LRR K, L, R)
Black Hist	tic (A3)		Thin Dark Su	rface (S9) (LR	R R, MLRA	149B)	5 cm Mucky Pea	at or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Mucky	y Mineral (F1)	(LRR K, L)		Dark Surface (S	7) (LRR K, L, M)
	Layers (A5)		Loamy Gleye	d Matrix (F2)			Polyvalue Belov	v Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Depleted Mat					ce (S9) (LRR K, L)
	k Surface (A12)	,	Redox Dark S					Masses (F12) (LRR K, L, R)
	cky Mineral (S1)			k Surface (F7)	1			plain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depre				Red Parent Mat	
Sandy Red				0010110 (1 0)				ark Surface (TF12)
Stripped M	• •						Mesic Spodic (T	• ,
		and watland h	ydrology must be pres	ent unless dis	turbed or n	oblematic	Other (Explain in	
	ydropriyae vegetation	and welland	yarology mast be pres	ent, anicos aic	rai pod oi pi	obioinatio.		
						1		
•	er (if observed):							
Type: non	ne						In this call Dance	No.
Type: non Depth (inch	ne hes): <u>n/a</u>		_				ls Hydric Soil Prese	ent? Yes No_
Type: non Depth (inch	ne	oil indicator.	Soils are dry.				ls Hydric Soil Prese	ent? Yes No
Type: non Depth (inch	ne hes): <u>n/a</u>	oil indicator.	Soils are dry.				ls Hydric Soil Prese	ent? Yes No_
Type: non Depth (inch	ne hes): <u>n/a</u>	oil indicator.	Soils are dry.				ls Hydric Soil Prese	ent? Yes No_
Type: non	ne hes): <u>n/a</u>	oll indicator.	Soils are dry.				Is Hydric Soil Prese	ent? Yes <u>No</u>
Type: non Depth (inch Remarks: Does	nes): <u>n/a</u> s not meet a hydric s	soll indicator.	Soils are dry.				Is Hydric Soil Prese	ent? Yes No_
Type: non Depth (inch Remarks: Does	nes): <u>n/a</u> s not meet a hydric s	oil indicator.	Soils are dry.				ls Hydric Soil Prese	ent? Yes <u>No</u>
Type: non Depth (inch Remarks: Does	ne hes): <u>n/a</u> s not meet a hydric s	oil indicator.	Soils are dry.					ent? Yes No_
Type: non Depth (inch Remarks: Does HYDROLOG`	ne hes): <u>n/a</u> s not meet a hydric s						Secondary Indic	ators (minimum of two required) Soil Cracks (B6)
Type: non Depth (inch Remarks: Does HYDROLOG' Wetland Hydrolo Primary Indicato Surface W	nes): _n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is //ater (A1)		ck all that apply) Water-Stain	ed Leaves (B ⁹	2)		Secondary Indic Surface Drainage	eators (minimum of two required) Soil Cracks (B6) Patterns (B10)
Type: non Depth (inch Remarks: Does HYDROLOG` Wetland Hydrolo Primary Indicato Surface W High Wate	nes): _n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is l/ater (A1) er Table (A2)		ick all that apply) Water-Stain Aquatic Fau	ına (B13)	9)		Secondary Indic Surface S Drainage Moss Tri	rators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16)
Type: non Depth (inch Remarks: Does HYDROLOG` Netland Hydrolo Primary Indicato Surface W High Wate Saturation	re hes): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is /ater (A1) or Table (A2)		ck all that apply) Water-Stain Aquatic Fau Marl Deposi	ina (B13) its (B15)			Secondary Indic Surface s Drainage Moss Tri Dry-Seas	eators (minimum of two required) Soil Cracks (B6) • Patterns (B10) m Lines (B16) son Water Table (C2)
Type: non Depth (inch Remarks: Does HYDROLOGY Wetland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar	ne hes): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is //ater (A1) er Table (A2) (A3) rks (B1)		ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S	ina (B13) its (B15) ulfide Odor (C	1)	in (C2)	Secondary Indic Surface S Drainage Moss Tri Dry-Seas Crayfish	nators (minimum of two required) Soil Cracks (B6) Patterns (B10) M Lines (B16) Son Water Table (C2) Burrows (C8)
Type: non Depth (inch Remarks: Does HYDROLOG` Wetland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar Sediment	res): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is /ater (A1) er Table (A2)		ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh	ina (B13) its (B15) ulfide Odor (C nizospheres on	1) Living Roo	ts (C3)	Secondary Indic Surface S Drainage Moss Tri Dry-Seas Crayfish Saturatio	sators (minimum of two required) Soil Cracks (B6) Patterns (B10) M Lines (B16) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
Type: non Depth (inch Remarks: Does HYDROLOG` Wetland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar Sediment Drift Depos	ree hes): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3)		ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh	ina (B13) its (B15) ulfide Odor (C nizospheres on f Reduced Iron	1) Living Roo (C4)		Secondary Indic Surface S Drainage Moss Tri Dry-Seas Crayfish Saturatio Stunted of	nators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16) Son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
Type: non Depth (inch Remarks: Does HYDROLOG` Wetland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar Sediment Drift Depos	responses in the meet and in t		ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron	ina (B13) its (B15) ulfide Odor (C nizospheres on	1) Living Roo (C4)		Secondary Indic Surface S Drainage Moss Tri Dry-Seas Crayfish Saturatic Stunted of	sators (minimum of two required) Soil Cracks (B6) Patterns (B10) M Lines (B16) Son Water Table (C2) Burrows (C8) In Visible on Aerial Imagery (C9)
Type: non Depth (inch Remarks: Does HYDROLOG` Netland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar Sediment Drift Depo Algal Mat of Iron Depos	responses in the meet and in t	s required: che	ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) its (B15) ulfide Odor (C iizospheres on Reduced Iron Reduction in T	1) Living Roo (C4) Filled Soils (Secondary Indic Surface : Drainage Moss Tri Dry-Seas Crayfish Saturatio Stunted of Geomory Shallow	nators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1)
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Type: non Depth (inch Remarks: Does HYDROLOG` Wetland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar Sediment Drift Depos Algal Mat of Iron Depos Inundation Sparsely V	responses in the mean in the m	s required: che	ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) its (B15) ulfide Odor (Cizospheres on Reduced Iron Reduction in T	1) Living Roo (C4) Filled Soils (Secondary Indic Surface: Drainage Moss Tri Dry-Seas Crayfish Saturatio Stunted G Geomory Shallow	rators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) obtic Position (D2) Aquitard (D3) ographic Relief (D4)
Type: non Depth (inch Remarks: Does HYDROLOG` Wetland Hydrolo Primary Indicato Surface W High Water Saturation Water Mar Sediment Drift Depos Algal Mat of Iron Depos Inundation Sparsely V	res mes): n/a s not meet a hydric s s not meet a hydric s ors (minimum of one is /ater (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aerial Ima /egetated Concave St ions:	s required: che gery (B7) urface (B8)	ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ina (B13) its (B15) ulfide Odor (C isizospheres on f Reduced Iron Reduction in T Surface (C7) ain in Remarks	1) Living Roo (C4) Filled Soils (Secondary Indic Surface: Drainage Moss Tri Dry-Seas Crayfish Saturatio Stunted G Geomory Shallow	rators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) obtic Position (D2) Aquitard (D3) ographic Relief (D4)
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Type: non Depth (inch Remarks: Does HYDROLOGY Wetland Hydrolo Primary Indicato Surface W High Wate Saturation Water Mar Sediment Drift Depo: Inundation Sparsely V Tield Observati Surface Water F Vater Table Presentation Presentation	ree res): n/a s not meet a hydric s res (minimum of one is later (A1) res (Table (A2) res (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aerial Ima /egetated Concave Su lons: Present? Yeart? Yeart?	s required: che gery (B7) urface (B8)	ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain	ina (B13) its (B15) ulfide Odor (C its (B15) ulfide Odor (C its (B15) reduced Iron Reduction in T Surface (C7) ain in Remarks thes):	1) Living Roo (C4) Filled Soils (C6)	Secondary Indic Surface: Drainage Moss Tri Dry-Seas Crayfish Saturatio Stunted G Geomory Shallow	eators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) Aquitard (D3) ographic Relief (D4) ttral Test (D5)
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Type: non Depth (inch Remarks: Does HYDROLOG` Vetland Hydrolo Primary Indicato Surface Water Mar Sediment Drift Depor Algal Mat of Iron Depor Inundation Sparsely veter Foundation Prese Includes capilla Describe Record Set Siewer Mar Veter State (Ap Remarks: No wes	response in the second of the	gery (B7) urface (B8) es No es No ge, monitoring ix 1), aerial pl	ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S Other (Explain X Depth (inc) X Depth (inc) Depth (inc) Well, aerial photos, presence of the company	ina (B13) its (B15) ulfide Odor (C ilizospheres on f Reduced Iron Reduction in T Surface (C7) ain in Remarks thes): thes): evious inspect 5, 2007 and 20	1) Living Roo (C4) Filled Soils (s) ions), if ava	Is Weti	Secondary Indic Surface: Drainage Moss Tri Dry-Seas Crayfish Saturatio Stunted of Geomory Shallow Microtopy FAC-Neu and Hydrology Prese	sators (minimum of two required) Soil Cracks (B6) Patterns (B10) m Lines (B16) son Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) or Stressed Plants (D1) ohic Position (D2) Aquitard (D3) ographic Relief (D4) stral Test (D5) nt? Yes No endix 1), WDNR Surface Water cip Maps (Figure 5A-C, Appendi

Project/Site:	29.3-Acre Site Southeast of STH 59	& CTH X	City/County	:Wau	kesha/Waukesha	Sampling Date:	7/27/15
Applicant/Owner:	Kapur &	Associates, Inc	<u>c.</u>		State: WI	Sampling Point:	22
nvestigator(s):	Tina M. Myers, PWS		Section	, Township	, Range:	SE 1/4 Sec 17, 1	Γ6N, R19E
andform (hillslope	e, terrace, etc.): groundwa	ter slope wetla	nd	Local	relief (concave, convex	(, none):	convex
Slope (%): 2	-3% Lat:	172	Long:			Datum:	
Soil Map Unit Nam	ne: Brookston silt loam, 0-3% slopes	(BsA)			WWI class	sification: S3/E2K	
Are climatic/hydrol	logic conditions on the site typical for this	time of year?	Yes X	No	(If needed, explain any	y answers in Remark	(s.)
Are Vegetation	N Soil N or Hydrology N	significantly	disturbed?		Are "Normal Circums		Yes X No
Are Vegetation		naturally prol			(If needed, explain any	y answers in Remarl	ks.)
_							
SUMMARY OF F	FINDINGS - Attach site map showin	g sampling p	oint location	s, transec	ts, important feature	s, etc.	
Hydrophytic Vege	etation Present? Ves Y	No					
' ' ' '			19		led Area within	v	
Hydric Soil Prese			a	Wetland?	-	X No	VAL A
	gy Present? Yes X				ional Wetland Site ID:		444
Remarks: (Explain	n alternative procedures here or in a sep	arate report.) G	roundwater sl	ope wetlan	id - fresh (wet) meadov	w plant community.	
VEGETATION -	- Use scientific names of plants.						
					Dominance Test work	ksheet:	
Tron Stratum /Bla	ot size: equiv to 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status			
		-		Otatus	Number of Dominant Are OBL, FACW, or F		1 (A)
			-	-	Ale OBL, FACVV, OF I	AC	(^)
^							
				_	Total Number of Dom	ninant Species	1 (B)
_					Across All Strata:	-	1 (B)
				-			
				_	Percent of Dominant		100% (A/B)
			- Tatal Causa		OBL, FACW, or FAC:		(A/D)
		0%	= Total Cover		Daniel and Indiana	al also a also	
	ratum (Plot size: equiv to 15' radius)				Prevalence Index wo		I film la c les u
1				_	Total % Cover of:		ultiply by:
2			-		OBL species		
3.					FACW species		
_							
					FACU species	x 4 =	
6					UPL species		(D)
7,					Column Totals:		(B)
		0%	= Total Cover		Prevalence Inc		
	ot size: equiv to 5' radius)				Hydrophytic Vegetation		
1. Symphyotrici		70%	Y	OBL	X Rapid Test for Hyd		
2. Phalaris arun		20%	N	FACW	X Dominance Test is		
3. Equisetum ar	rvense	10%	N	FAC	Prevalence Index	is ≤3.0¹	
4. Carex stricta		10%	N	OBL		aptations¹ (Provide s	upporting data in
5. Solidago can		5%	N	FACU	Remarks or on a s		
6. Solidago giga	antea	5%	N	FACW	Problematic Hydro	ophytic Vegetation¹ (I	Explain)
7					diadiantas di sali	المالة والتوري لمستم الأور	and a mark of the contract
8					unless disturbed or p	•	rology must be present,
9							
		7,			Definitions of Vegetal		- 1
11					Tree - Woody plants: height (DBH), regardl		e in diameter at breast
12					, ,, ,,		
		120%	= Total Cover			y plants less than 3	in DBH and greater than
Woody Vine Strate	um (Plot size: equiv to 30' radius)				3.28 (1m) tall.	. L	
1							s, regardless of size, and
2.				1	woody plants less that		
					Woody vines - All woo	ody vines greater tha	an 3.28 ft in height.
4.					In Dividence to the Manager	Antina	
		0%	= Total Cover		Is Hydrophytic Vege Present?	tation	Yes X No
				.tab.t			
Remarks: (Includ	e photo numbers here or on a separate s	sheet.) Data poi	int is located v	vithin a fre	esn (wet) meadow grou	ingwater slope wet	iand.

Sampling Point:

Depth	Matrix			Redo	x Features			_
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks
0-16	10YR 2/1	70%	2.5YR 4/8	30%	С	M/PL	muck	oxydized rhizospheres
16-24	10YR 4/1	70%	10YR 5/6	30%	С	M	mucky clay	
	-			~			-	
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Type: C=Cond	centration, D=Depletio	n, RM=Reduce	d Matrix, MS=Masked	Sand Grains.				on: PL=Pore Lining, M=Matrix.
lydric Soil Ind	licators:						Indicators for Prot	olematic Hydric Soils³:
X Histosol (A1)		Dark Surface	(S7) (LRR R,	MLRA 149	B)	2 cm Muck (A	A10) (LRR K, L, MLRA 149B)
X Histic Epi	pedon (A2)		Polyvalue Be	low Surface (S	88) (LRR R ,	MLRA 149	B Coast Prairie	Redox (A16) (LRR K, L, R)
Black His			Thin Dark Su	ırface (S9) (LR	R R, MLRA	149B)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)			y Mineral (F1)				(S7) (LRR K, L, M)
	Layers (A5)		Loamy Gleye		,, - /			low Surface (S8) (LRR K, L)
	Below Dark Surface (۸11)	Depleted Mar	, ,				rface (S9) (LRR K, L)
	,	011)	Redox Dark					ese Masses (F12) (LRR K, L, R)
	k Surface (A12)						_	odplain Soils (F19) (MLRA 149B)
	icky Mineral (S1)			rk Surface (F7))		Red Parent N	, , , ,
	eyed Matrix (S4)		Redox Depre	essions (F8)				, ,
Sandy Re	` '						-	Dark Surface (TF12)
	Matrix (S6)						Mesic Spodio	•
Indicators of h	ydrophytic vegetation	and wetland h	ydrology must be pres	ent, unless dis	sturbed or p	roblematic.	Other (Explai	n in Remarks)
							_	
Restrictive Lay	/er (if observed):			,				
_	ver (if observed):							
Type: nor	ne		_				Is Hydric Soil Pre	esent? Yes X No
Type: nor	ne hes): <u>n/a</u>	et					Is Hydric Soil Pre	esent? Yes X No
Type: nor	ne	et.					Is Hydric Soil Pre	esent? Yes <u>X</u> No
Type: nor	ne hes): <u>n/a</u>	et.	_				Is Hydric Soil Pre	esent? Yes X No
Type: nor	ne hes): <u>n/a</u>	et.					Is Hydric Soil Pre	esent? Yes <u>X</u> No
Type: nor	ne hes): <u>n/a</u>	et.					Is Hydric Soil Pre	esent? Yes <u>X</u> No
Type: <u>nor</u> Depth (inc Remarks: Hyd r	ne hes): <u>n/a</u> ric soil criterion is m	et.					Is Hydric Soil Pre	esent? Yes <u>X</u> No
Type: nor Depth (incl Remarks: Hydi	ne hes): n/a ric soil criterion is m	et.						
Type: nor Depth (inci Remarks: Hydrol HYDROLOG Wetland Hydrol	ne hes): n/a ric soil criterion is m Y ogy Indicators:						Secondary In	dicators (minimum of two required)
Type: nor Depth (inc) Remarks: Hydrol HYDROLOG Wetland Hydrol Primary Indicato	ne hes): n/a ric soil criterion is m Y ogy Indicators: ors (minimum of one is						Secondary In	dicators (minimum of two required) te Soil Cracks (B6)
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Type: nor Depth (inc) Remarks: Hydrol HYDROLOG Wetland Hydrol Primary Indicate Surface W High Wate	ne hes): n/a ric soil criterion is m Y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2)		Water-Stain Aquatic Fau	ned Leaves (BS ina (B13)			Secondary In Surfac Draina Moss	dicators (minimum of two required) se Soil Cracks (B6) age Patterns (B10) Trim Lines (B16)
Type: nor Depth (inci Remarks: Hydi HYDROLOG Wetland Hydrol Primary Indicato Surface W High Wate Saturation	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3)		Water-Stain Aquatic Fau Marl Depos	ned Leaves (Bs ina (B13) its (B15)	9)		Secondary In Surfac Draina Moss Dry-Se	dicators (minimum of two required) te Soil Cracks (B6) age Patterns (B10)
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Type: nor Depth (inci Remarks: Hydr HYDROLOG Wetland Hydrol Primary Indicate Surface High Wate Saturation Water Ma	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)		Water-Stain Aquatic Fau Marl Depos Hydrogen S X Oxidized Rh Presence of	ned Leaves (BS ina (B13) iulfide Odor (C nizospheres or f Reduced Iron	9) 1) 1 Living Roc 1 (C4)	ots (C3)	Secondary In Surfac Draine Moss Crayfii Sature	dicators (minimum of two required) the Soil Cracks (B6) tage Patterns (B10) Trim Lines (B16) teason Water Table (C2) the Burrows (C8) thion Visible on Aerial Imagery (C9) the or Stressed Plants (D1)
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Type: nor Depth (inci Remarks: Hydr HYDROLOG Wetland Hydrol Primary Indicate Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B3) or Crust (B4) sits (B5)	s required: che	Water-Stain Aquatic Fau Marl Depos Hydrogen S X Oxidized Rh Presence of Recent Iron Thin Muck S	ned Leaves (Bs ina (B13) its (B15) iulfide Odor (C nizospheres or f Reduced Iron Reduction in Surface (C7)	9) 1) 1 Living Roc 1 (C4) Tilled Soils	ots (C3)	Secondary In Surfac Draina Moss Dry-Se Crayfi Satura Stunta Geom	dicators (minimum of two required) the Soil Cracks (B6) tage Patterns (B10) Trim Lines (B16) teason Water Table (C2) the Burrows (C8) thion Visible on Aerial Imagery (C9) to or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3)
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Type: nor Depth (inci Remarks: Hydr HYDROLOG Wetland Hydrol Primary Indicate Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatior	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B3) or Crust (B4) sits (B5)	s required: che	Water-Stain Aquatic Fau Marl Depos Hydrogen S X Oxidized Rh Presence of Recent Iron Thin Muck S	ned Leaves (Bs ina (B13) its (B15) iulfide Odor (C nizospheres or f Reduced Iron Reduction in Surface (C7)	9) 1) 1 Living Roc 1 (C4) Tilled Soils	ots (C3)	Secondary In Surfac Draina Moss Dry-Sc Crayfii Sature Stunte Geom Shallo	dicators (minimum of two required) the Soil Cracks (B6) tage Patterns (B10) Trim Lines (B16) teason Water Table (C2) the Burrows (C8) thion Visible on Aerial Imagery (C9) to or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3)
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Investigator(s) Tina M. Myers, PWS & Heather D. Pattl. PWS Section, Township, Range: SE 14 Sec 17, T6N, R19E Leardform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex	Project/Site: Applicant/Owner:	29.3-Acre Site Southeast of STH 59 &	SCTH X	City/County	:Wau	kesha/Waukesha State: WI	Sampling Date: Sampling Point:	7/27/15 23
Local relate Contents Conte					Township			-
Single (6)				Codian		_		
Solid Map Init Name: Brookston sitt Damp, 93% slopes (BaA) Will classification: SSIEZK				Long:				
Are Vegetation N Soil N or Hydrology N admirately problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Yes No No X is a well-and year within a well-and year within a well-and year of the cannot be growing procedures here or in a separate report.) Plant community is degraded "cid-field" with reed canary grass growing upslope. The reed canary appears to be growing here due to disturbance rather than welland conditions. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: equiv to 30' radius) 1.		_	(BsA)					
Ner Vegetation M Soil M or Hydrology N naturally problematic? Withdrochytic Vegetation Present? Yes X No Withdrochytic Vegetation Present? Yes No X I Yes, opinional Verland Site D: No No X No Wetland Hydrology Present? Yes No X I Yes, opinional Verland Site D: No No X	Are climatic/hydrolog	gic conditions on the site typical for this t	ime of year?	Yes X	No	(If needed, explain any	answers in Remarks.)	
Ner Vegetation M Soil M or Hydrology N naturally problematic? Withdrochytic Vegetation Present? Yes X No Withdrochytic Vegetation Present? Yes No X I Yes, opinional Verland Site D: No No X No Wetland Hydrology Present? Yes No X I Yes, opinional Verland Site D: No No X	Are Vegetation	N Soil N or Hydrology N	significantly	disturbed?		Are "Normal Circumst	tances" present? Ye	s X No
Hydricophytic Vegetation Present?						(If needed, explain any	y answers in Remarks.)	
Hydricophytic Vegetation Present? Yes X No	OUBSELLA DV OF FL	NDINGS AN I			4.			
hydric oil Present? Yes No X a Wetland Hydrology Present? Yes No X (Fyes, optional received Hydrology Present Present Hydrology Present? Yes No X (Fyes, optional received Hydrology Present? Yes No X (Fyes, optional received Hydrology Present Present Present Hydrology Present Present Present Hydrology Present Pr	SUMMARY OF FI	NDINGS - Attach site map showing	sampling p	oint location	s, transec	ts, important feature	s, etc.	
Weelland Hydrology Present? Yes	Hydrophytic Vegeta		10	Is	the Sampl	ed Area within		
Remarks: (Explain alternative procedures here or in a separate report.) Plant community is degraded "old-field" with reed canary grass growing upslope. The reed canary appears to be growing here due to disturbance rather than wetland conditions. VEGETATION - Use scientific names of plants. Troes Stratum (Plot size: equiv to 30" radius) Absolute % Dominant Seciles Number of Dominant Species That Are Ost., FACW, or FAC. 1 (A)	1 '			a	Wetland?	Yes		
VEGETATION - Use scientific names of plants. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: equiv to 30' radius) 1.	Wetland Hydrology	Present? YesN	lo X		If yes, opli	onal Welland Site ID:	none -	Upland
VEGETATION - Use scientific names of plants. Absolute % Dominant Cover Species? Dominant Plant worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A) 1 1 4	Remarks: (Explain	alternative procedures here or in a sepa	rate report.)	Plant commun	ity is degra	ded "old-field" with re	ed canary grass grow	ing upslope. The reed
Absolute % Dominant Cover Dominant Cover Status Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	canary appears to	be growing here due to disturbance i	rather than w	etland condition	ons.			
Absolute % Dominant Cover Dominant Cover Status Indicator Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)								
Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)	VEGETATION	les scientific names of plants						
Number of Dominant Species That Number of Dominant Species That Are OBL, FACW, or FAC: 1	VEGETATION - C	ose scientific flames of plants.				Dominance Test work	veheet:	
1	Tree Stratum (Plot	eize: equiv to 30' radius)				U		
2	`		COVE	Species?	Otalus		•	1 (A)
Total Number of Dominant Species					_	Ale OBE, I AOVV, OIT	AO	(4)
4.	0			-	_	Total Number of Dans	sinont Consiss	
Percent of Dominant Species That Are							illiant Species	1 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)				-		, toroco , in otraca.	-	(5)
Sapling/Shrub Stratum (Plot size: equiv to 15' radius) 1.				-	-	Paraont of Dominant	Species That Are	
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)	7.							100% (A/B)
Prevalence Index worksheet: Total % Cover of: Multiply by: Multiply by: Total % Cover of: Multiply by: Total % Cover of: Multiply by: Mult	10-		0%	= Total Cover			_	(/
Total % Cover of: Multiply by:	Sapling/Shrub Stra	tum (Plot size; equiv to 15' radius)				Prevalence Index wor	rksheet:	
2.	1					Total % Cover of:	Multip	oly by:
FACW species X 2 =								
## FAC species	0							
FACU species	4					FAC species	x 3 =	
Column Totals:	-					FACU species	x 4 =	
Column Totals:						UPL species	x 5 =	
Herb Stratum (Plot size: equiv to 5' radius) 1. Phalaris arundinacea 2.	7					Column Totals:	(A)	(B)
1. Phalaris arundinacea 2.			0%	= Total Cover		Prevalence Ind	lex = B/A =	
X Dominance Test is >50%	Herb Stratum (Plot	t size: equiv to 5' radius)				Hydrophytic Vegetatio	on Indicators:	
Prevalence Index is ≤3,0¹	1. Phalaris arund	linacea	100%	Υ	FACW	X Rapid Test for Hyd	Irophytic Vegetation	
4Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) 6Problematic Hydrophytic Vegetation¹ (Explain) 7	2					X Dominance Test is	; >50%	
Remarks or on a separate sheet) Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (Im) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	3,		-			Prevalence Index is	s ≤3 01	
Problematic Hydrophytic Vegetation¹ (Explain) 7. 8. 9. 10. 10. 11. 12. Woody Vine Stratum (Plot size: equiv to 30¹ radius) 1, 2. Woody Vine Stratum (Plot size: equiv to 30¹ radius) 1, 2. 3. 4. 10% = Total Cover 11% Problematic Hydrophytic Vegetation Present? Present? Present? Present Present? Present Pr	4							orting data in
7. 8. 9. 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 10. Definitions of Vegetation Strata: Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height. Woody Vine Stratum (Plot size: equiv to 30' radius) 1. Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. 1s Hydrophytic Vegetation Present? Yes X No	-							
8. 9. 1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No						Problematic Hydro	phytic Vegetation¹ (Expl	ain)
9. unless disturbed or problematic. 10. Definitions of Vegetation Strata: Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No						1 Indicators of budgie as	ail and wattend budgalar	au must be present
Definitions of Vegetation Strata: Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	-		-					Jy must be present,
Tree - Woody plants 3 in, (7.6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	-					· .		
height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No			-					diameter at breast
Woody Vine Stratum (Plot size: equiv to 30' radius) 1,			-					didifictor de product
Woody Vine Stratum (Plot size: equiv to 30' radius) 1.	12		1009/	- Total Cover	-	Sanling/shrub - Wood	ly plants less than 3 in 1	DBH and greater than
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	Moody Vino Stratur	m (Plot size: equiv to 30' radius)	100 /6	- Total Cover			, pranto roco aran o m	zzri anie groutei tilan
woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	4	,				Herb - All herbaceous	(non-woody) plants, re-	gardless of size, and
3.	_							3
4	2					Woody vines - All woo	ody vines greater than 3	.28 ft in height.
Is Hydrophytic Vegetation Present? Yes X No				_		,		
	-		-					
Remarks: (Include photo numbers here or on a separate sheet.) Plant community is a degraded old-field dominated by reed canary grass.								res X No
	Remarks: (Include	photo numbers here or on a separate sh	eet.) Plant co	mmunity is a c	degraded o	ld-field dominated by r	reed canary grass.	
).							

SOIL								Sampling Point:	23
Profile Descri	ption: (Describe to th	e depth needed	to document the inc	licator or conf	irm the ab	sence of in	ndicators.)		
Depth	Matrix			Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type¹	Loc²	Texture	Remarks	
0-18	10YR 2/1	100%			-		silt loam		
18-24	10YR 3/2	100%					silt loam		
	-								
	+								
	-				- 5				
						-			
	-								
									15
	-								
	7				-				
17 00		DM Ded and	M-12. MO-M-12-4	Sand Oneine			2) continu	L=Pore Lining, M=Matrix	
	centration, D=Depletio	n, RM=Reduced	Matrix, MS=Masked S	sand Grains,					
Hydric Soil Inc				^ <i></i>			Indicators for Problems	•	
Histosol	` '	-	Dark Surface (7		(LRR K, L, MLRA 149B)	
·	ipedon (A2)	_	Polyvalue Belo		•			ox (A16) (LRR K, L, R)	-,
Black His	stic (A3)	_	Thin Dark Surf			149B)		or Peat (S3) (LRR K, L, I	₹)
Hydroger	n Sulfide (A4)	_	Loamy Mucky	Mineral (F1) (L	RR K, L)		Dark Surface (S7)		
Stratified	Layers (A5)	_	Loamy Gleyed	Matrix (F2)				Surface (S8) (LRR K, L)	
Depleted	Below Dark Surface (A11) _	Depleted Matri	x (F3)			Thin Dark Surface		_,
Thick Da	rk Surface (A12)	-	Redox Dark Su	ırface (F6)			_	Masses (F12) (LRR K, L,	(
Sandy M	ucky Mineral (S1)	_	Depleted Dark					ain Soils (F19) (MLRA 14	9B)
Sandy GI	eyed Matrix (S4)	_	Redox Depress	sions (F8)			Red Parent Mater		
Sandy Re	edox (S5)						Very Shallow Dark		
Stripped	Matrix (S6)						Mesic Spodic (TA		
3Indicators of	hydrophytic vegetation	and wetland hyd	Irology must be prese	nt, unless distu	rbed or pro	oblematic.	Other (Explain in F	Remarks)	
Restrictive La	yer (if observed):								
Type: no	ne								
	ches); n/a						Is Hydric Soil Present	t? Yes I	No X
Remarks: Doe	es not meet a hydric s	soil indicator. S	oils are dry and friat	le.		-			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
HYDROLOG	SY.								
							Cdes la dise	are (minimum of huo roas	uirad)
	logy Indicators:		Matter transport A					ors (minimum of two requ	ireu)
	tors (minimum of one i Water (A1)	s required: checi		d Leaves (B9)				oil Cracks (B6) Patterns (B10)	
	ter Table (A2)		Aquatic Faun					Lines (B16)	
Saturatio			Marl Deposits					n Water Table (C2)	
Water Ma	arks (B1)			fide Odor (C1)				urrows (C8)	
	t Deposits (B2)			ospheres on L		s (C3)		Visible on Aerial Imagery	(C9)
	osits (B3)			Reduced Iron (C		26)		Stressed Plants (D1) ic Position (D2)	
Iron Depo	t or Crust (B4)		Thin Muck Su	teduction in Till	ieu Solis (C	50)	Shallow Ac	· ·	
	n Visible on Aerial Ima	agery (B7)		n in Remarks)				raphic Relief (D4)	
	Vegetated Concave S		-	,			X FAC-Neutr	al Test (D5)	
Field Observa		on N.	V Darth Cart	00):					
Surface Water Water Table Pr		es No No No	X Depth (inch Depth (inch						
Saturation Pres		es No	X Depth (inch			Is Wetla	nd Hydrology Present	? Yes I	No X
(includes capill	ary fringe)								
Describe Reco	rded Data (stream gau	ige, monitoring w	ell, aerial photos, pre	ious inspection	ns), if avail	able: USGS	Map (Figure 1, Apper	ndix 1), WDNR Surface \	Vater
Data Viewer M	lap (Figure 3, Append	dix 1), aerial pho	otos from 2000, 2005,	2007 and 201	0 (Figures	4A-D, App	endix 1), NOAA Precij	p Maps (Figures 5A-C, A	ppendix
1), WETS Data	(Appendix 2)		nditions for Anall to	NOAA	n (Eiguss	EC) also is:	dinates normal range	however it is the dry er	nd of the
Remarks: WE normal range.		mai ciimatic co	nuitions for April-Jul	ie. NOAA ma	h (Ligure :	JU) also ini	uicates normai range,	nowever it is the dry er	d of the
norman range.									
						Madha	ontrol and Northeast Da	mine Marrian 2.0	-

Applicant/Over Kapur & Associates, Inc. State WI Sampling-Point Minestigator(s) Tina M. Myers, PWS & Heather D. Pattl. PWS Section, Township, Ranger SE 14 & Set 7, TRIS, R19 Landform (nilislope, torrace, etc.): Swale Long: Defaure Section, Convex, co	Sampling Date:	esha/Waukesha	Waul	City/County:	Acre Site Southeast of STH 59 & CTH X	roject/Site: 29.3-Acre S
Local rullef (concavo, correx, none):					Kapur & Associates, In	pplicant/Owner:
Slope (S) 0%	SE 1/4 Sec 17, 7	Range:	, Township,	Section,	M. Myers, PWS & Heather D. Patti, PWS	vestigator(s): Tina M. M
Solid Map Unit Name	, none):	elief (concave, convex,	Local		e, etc.): swale	andform (hillslope, terrace, etc.
Vector V	Datum:			_ong:	Lat:	lope (%):0% La
Name					rookston silt loam, 0-3% slopes (BsA)	oil Map Unit Name: Brooks
VEGETATION - Use scientific names of plants. VEGETATION - Use scientific names of plants.	answers in Remark	(If needed, explain any	No			
SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydricophytic Vegetation Present? Yes X No Wetland Hydrology Present? Yes X No Hydricosoul Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Present Hydrology Present Hydrology Present Hydrology Present Hydrology Present Hydrology Presented Hydrology Present Hydrology Pres	ances" present?	Are "Normal Circumst		sturbed?	Soil N or Hydrology N significantly	re Vegetation NSoil
Hydricophytic Vegetation Present? Yes X No	answers in Remark	(If needed, explain any		ematic?	Soil <u>N</u> or Hydrology <u>N</u> naturally pro	re Vegetation N Soil
Hydricphytic Vegetation Present? Yes X No Bydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No Wetland Hydrology Present? Yes X No Bydriand Hydrology Present Hydrology Prese	e atc	e important feature	trancari	int locations	GC Attach site man showing compling	LIMMADY OF FINDINGS
Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: W4-4 Remarks: (Explain alternative procedures here or in a separate report) Fresh (wet) meadow plant community. The hydroperiod is intermittent here VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: equiv to 30' radius) Absolute % Dominant Salatus Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Salitus Total Number of Dominant Species That Are OBL, FACW, or FAC: 1 Total Number of Dominant Species Tha	3, 010.	s, important leature	i, transect	int locations	GS - Attach site map showing sampling p	OWNERS OF FINDINGS - 7
New		ed Area within	the Sampl	Is	Present? Yes X No	Hydrophytic Vegetation Presen
Vestand Hydrology Present? Yes X No	X No				Yes X No	Hydric Soil Present?
Remarks: (Explain alternative procedures here or in a separate report.) Fresh (wet) meadow plant community. The hydroperiod is intermittent here VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: equiv to 30' radius) Tree Stratum (Plot size: equiv to 30' radius) Absolute % Dominant Status Number of Dominant Species That Are OBL, FACW, or FAC: 1 2.		nal Wetland Site ID:	If yes, optic			Netland Hydrology Present?
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size: equiv to 30' radius) Cover Species 7 Status I	operiod is intermitt	ommunity. The hydro	dow plant	sh (wet) mea		
Absolute % Dominant Cover Species? Status Tree Stratum (Plot size: equiv to 30' radius) Absolute % Species? Status Tree Stratum (Plot size: equiv to 30' radius) Absolute % Species? Status Total Number of Dominant Species 1 Total Number of Dominant Species 1 Total Number of Dominant Species 1 Across All Stratus Across All Stratus Across All Stratus Across All Stratus Percent of Dominant Species That Are OBL, FACW, or FAC: 100% Berein of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: 100% Percent of Dominant Species That A		, , , , , , , , , , , , , , , , , , , ,		(,	and procedures field of mid departed topolic).	Comando: (Explain alternative p
Absolute % Dominant Cover Species? Status Tree Stratum (Plot size: equiv to 30' radius) Absolute % Species? Status Tree Stratum (Plot size: equiv to 30' radius) Absolute % Species? Status Total Number of Dominant Species 1 Total Number of Dominant Species 1 Total Number of Dominant Species 1 Across All Stratus Across All Stratus Across All Stratus Across All Stratus Percent of Dominant Species That Are OBL, FACW, or FAC: 100% Berein of Dominant Species That Are OBL, FACW, or FAC: Percent of Dominant Species That Are OBL, FACW, or FAC: 100% Percent of Dominant Species That A						
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Tree Stratum (Plot size: equiv to 30' radius) Cover Species? Sapting/Shrub Stratum (Plot size: equiv to 15' radius) Sapling/Shrub Stratum (Plot size: equiv to 5' radius) Sapling/Shrub Stratum (Plot size: equiv to 3' radius) Sapling/Shrub Stratum (Plot size: Sapling/Shrub					cientific names of plants.	VEGETATION - Use scientif
Tree Stratum (Plot size: equiv to 30' radius) Cover Species? Sapting/Shrub Stratum (Plot size: equiv to 15' radius) Sapling/Shrub Stratum (Plot size: equiv to 5' radius) Sapling/Shrub Stratum (Plot size: equiv to 3' radius) Sapling/Shrub Stratum (Plot size: Sapling/Shrub	csheet:	Dominance Test work				
Are OBL, FACW, or FAC: 1						Fron Stratum (Plot size: equiv t
2. 3. 4. 4. 4. 4. 4. 4. 4. 5. 5. 6. 6. 7. 6. 6. 7. 6. 7. 6. 7. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.			Otatab	Орестез		
Total Number of Dominant Species Across All Strata: 1	-	7110 000, 171011, 011				,
Across All Strata: 1 Across All Strata: 1 Across All Strata: 1 Berent of Dominant Species That Are OBL, FACW, or FAC: 100% Sapling/Shrub Stratum (Plot size: equiv to 15' radius) 1.	inent Cassies	Total Number of Dam	$\overline{}$	-		
5	illant Species					
Percent of Dominant Species That Are OBL, FACW, or FAC: 100%	_	, torous , in our attack				
OBL, FACW, or FAC: 100% Sapling/Shrub Stratum (Plot size: equiv to 15' radius) Prevalence Index worksheet: Total % Cover of: Multiply by OBL species x 1 = FACW species x 2 = FACW species x 3 = FACW species x 3 = FACW species x 3 = FACW species x 4 = OBL species x 4 = OB	Species That Are	Percent of Deminant				
Sapling/Shrub Stratum (Plot size: equiv to 15' radius) Prevalence Index worksheet: Total % Cover of: Multiply by 2.	•					•
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)				= Total Cover		
Total % Cover of: Multiply by 2 2 3 3 6 6 6 6 6 6 6 6 6 6 6 6 6	ksheet:	Prevalence Index wor				Sapling/Shrub Stratum (Plot si:
2. OBL species	M	Total % Cover of:			·	, ,
3.		OBL species				
FAC species X 3 =		FACW species				
FACU species		FAC species				
6.	x 4 =	FACU species				
Column Totals:	x 5 =	UPL species _				
Herb Stratum (Plot size: equiv to 5' radius) 1. Phalaris arundinacea 2. Cirsium arvense 3. Solidago canadensis 5% N FACU 4. ———————————————————————————————————		Column Totals:				7.
1. Phalaris arundinacea 2. Cirsium arvense 3. Solidago canadensis 4. Solidago canadensis 5% N FACU 4. Solidago canadensis 5% N FACU 5. Solidago canadensis 6. Solidago canadensis 6. Solidago canadensis 7. Solidago canadensis 8. Solidago canadensis 9. Solidago canadensis 10. Solidago canadensis 11. Solidago canadensis 11. Solidago canadensis 12. Solidago canadensis 13. Solidago canadensis 14. Solidago canadensis 15% N FACU 15% Prevalence Index is ≤3 0¹ 15% Definitions of Vegetation Years of hydric soil and wetland hydrology mutuless disturbed or problematic. 16% Definitions of Vegetation Years of hydric soil and wetland hydrology mutuless disturbed or problematic. 11. Solidago Prevalence Index is ≤3 0¹ 15% Definitions of Vegetation Years of hydric soil and wetland hydrology mutuless disturbed or problematic. 16% Definitions of Vegetation Years of hydric soil and wetland hydrology mutuless disturbed or problematic. 17% Definitions of Vegetation Years of hydric soil and wetland hydrology mutuless disturbed or problematic. 18% Definitions	lex = B/A =	Prevalence Ind		= Total Cover	0%	
2. Cirsium arvense 3. Solidago canadensis 5% N FACU Prevalence Index is ≤3 0¹	on Indicators:	Hydrophytic Vegetation			equiv to 5' radius)	Herb Stratum (Plot size: equiv
3. Solidago canadensis 4.	rophytic Vegetation	X Rapid Test for Hyd	FACW	Υ	a 100%	Phalaris arundinacea
Morphological Adaptations¹ (Provide supporting Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology muniless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6cm) or more in diam height (DBH), regardless of height Sapling/shrub - Woody plants less than 3 in. DBH 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardle woody plants less than 3.28 ft tall.	, >50%	X Dominance Test is	FACU	N	10%	2. Cirsium arvense
Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology musuless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6cm) or more in diam height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardle woody plants less than 3.28 ft tall.	s ≤3 0¹	Prevalence Index i	FACU	N	s 5%	Solidago canadensis
Problematic Hydrophytic Vegetation¹ (Explain) 7. 8. 9. 10. 10. 11. 12. 115% = Total Cover Woody Vine Stratum (Plot size: equiv to 30¹ radius) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ptations¹ (Provide s	Morphological Ada				
7. 8. 9. 10. 10. 11. 12. Woody Vine Stratum (Plot size: equiv to 30' radius) 1. 12. 13. 14. 15% = Total Cover Woody Vine Stratum (Plot size: equiv to 30' radius) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	•					5,
8.	phytic Vegetation¹ (i	Problematic Hydro				3.
unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6cm) or more in diam height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless woody plants less than 3.28 ft tall.	all and well-ad book	Number of body				
9. 10. 11. 12. 115% = Total Cover Woody Vine Stratum (Plot size: equiv to 30' radius) 1. 12. 13. 14. 15% = Total Cover Woody Vine Stratum (Plot size: equiv to 30' radius) 1. 15% = Total Cover Woody Vine Stratum (Plot size: equiv to 30' radius) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						3,
Tree - Woody plants 3 in. (7.6cm) or more in diam height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless woody plants less than 3.28 ft tall.		·				-
height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in DBH 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless woody plants less than 3.28 ft tall.		_				
115% = Total Cover Woody Vine Stratum (Plot size: equiv to 30' radius) Herb - All herbaceous (non-woody) plants, regardly woody plants less than 3 28 ft tall.						10
Woody Vine Stratum (Plot size: equiv to 30' radius) 1. Herb - All herbaceous (non-woody) plants, regardly woody plants less than 3.28 ft tall. Woody plants less than 3.28 ft tall.		0 (), 0				2,
Woody Vine Stratum (Plot size: equiv to 30 radius) 1. 2. Herb - All herbaceous (non-woody) plants, regardly woody plants less than 3.28 ft tall.	y pianto less thath s	, -		= Total Cover		
woody plants less than 3 28 ft tall Woody plants less than 3 28 ft tall	(non woody) plants	, ,			t size: equiv to 30' radius)	Voody Vine Stratum (Plot size:
2. Washings All weeks vises greater than 2.29 ft	, ,,,					*
3. I Woody villes - All woody villes greater than 5.20 kg						
	My vines greater tha	vvoody vines - All Woo				
4 Is Hydrophytic Vegetation	tation	Is Hydrophytic Vege	-			
0% = Total Cover Present? Yes_		Present?				
Remarks: (Include photo numbers here or on a separate sheet.) Data point is located within a fresh (wet) meadow.		h (wet) meadow.	ithin a fres	nt is located w	numbers here or on a separate sheet.) Data po	Remarks: (Include photo numb

inches)				11000	x Features			
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-7	10YR 3/2	100%	2.5YR 4/8	30%	С	M	silt loam	
7-24	10YR 3/2	40%	10YR 5/6	30%	С	M	silt loam	some small cobble present
7-24	10YR 4/3	30%					silt loam	
					-			
		-			-			
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- 00	1. E. D.D. 1.E.			O	-		21 00016	n: DI -Doro Lining M-Matrix
		n, RM=Reduc	ed Matrix, MS=Masked	Sand Grains.				on: PL=Pore Lining, M=Matrix.
ydric Soil Inc								lematic Hydric Soils³:
Histosol (•			(S7) (LRR R ,				10) (LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Be	low Surface (S	88) (LRR R ,	MLRA 149	B Coast Prairie	Redox (A16) (LRR K, L, R)
Black His	tic (A3)		Thin Dark Su	rface (S9) (LR	R R, MLRA	149B)	5 cm Mucky F	Peat or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Muck	y Mineral (F1)	(LRR K, L)		Dark Surface	(S7) (LRR K, L, M)
Stratified	Layers (A5)		Loamy Gleye	d Matrix (F2)			Polyvalue Be	ow Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	A11)	Depleted Ma	trix (F3)			Thin Dark Su	face (S9) (LRR K, L)
Thick Dar	k Surface (A12)	·	X Redox Dark	Surface (F6)			Iron-Mangane	se Masses (F12) (LRR K, L, R)
	ıcky Mineral (S1)			k Surface (F7))		Piedmont Flo	odplain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depre				Red Parent M	aterial (TF2)
Sandy Re	• • •			,			Very Shallow	Dark Surface (TF12)
	Matrix (S6)						Mesic Spodic	
	, ,	and watland I	hydrology must be pres	ont unloss dis	sturbed or pr	oblomatic		in Remarks)
indicators of i		and welland	nydrology must be pres	ent, unless dis	stuibed of pr	oblematic.		
Restrictive Lay	er (if observed):							
Restrictive Lay Type: <u>no</u>								
Type: no							ls Hydric Soil Pre	sent? Yes X No
Type: no	ne	et.					ls Hydric Soil Pre	sent? Yes X No
Type: no	ne hes): <u>n/a</u>	et.					ls Hydric Soil Pre	sent? Yes X No
Type: no	ne hes): <u>n/a</u>	et.	=				ls Hydric Soil Pre	sent? Yes X No
Type: no	ne hes): <u>n/a</u>	et.					ls Hydric Soil Pre	sent? Yes X No
Type: no	ne hes): <u>n/a</u>	et.					ls Hydric Soil Pre	sent? Yes X No
Type: noi Depth (inc emarks: Hyd	ne hes): <u>n/a</u> ric soil criterion is m	et.					Is Hydric Soil Pre	sent? Yes <u>X</u> No_
Type: noi Depth (inc	ne hes): <u>n/a</u> ric soil criterion is m	et.						
Type: noi Depth (inc emarks: Hyd IYDROLOG /etland Hydrol	ne hes): n/a ric soil criterion is m Y ogy Indicators:						Secondary In	dicators (minimum of two required
Type: no Depth (income semarks: Hydelemarks: Hydelemarks: Hydelemarks: Hydelemarks: Hydrological depth (income semarks) Type (income	ne hes): n/a ric soil criterion is m Y ogy Indicators: ors (minimum of one is						Secondary In	dicators (minimum of two required e Soil Cracks (B6)
Type: noi Depth (inc. Pemarks: Hyd HYDROLOG Vetland Hydrol rimary Indicate Surface V	ne hes): _n/a ric soil criterion is m Y ogy Indicators: ors (minimum of one is Vater (A1)		Water-Stain	ied Leaves (BS	9)		Secondary In Surfac X Draina	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10)
Type: no Depth (inc Temarks: Hyd SYDROLOG Wetland Hydrol Frimary Indicate Surface V High Wat	ne hes): _n/a ric soil criterion is m Y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2)		Water-Stain	ına (B13)	9)		Secondary In Surfac X Draina Moss	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16)
Type: no Depth (inc temarks: Hyd IYDROLOG Vetland Hydrol rimary Indicate Surface V High Wat Saturation	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3)		Water-Stair Aquatic Fau Marl Depos	na (B13) its (B15)			Secondary In Surfac X Draina Moss Dry-Se	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2)
Type: noi Depth (inc emarks: Hyd IYDROLOG fetland Hydrol rimary Indicate Surface V High Wate Saturatior Water Ma	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) orks (B1)		Water-Stair Aquatic Fau Marl Depos Hydrogen S	ina (B13) its (B15) ulfide Odor (C	1)	rs (C3)	Secondary In Surfac X Draina Moss Ory-Se	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) iason Water Table (C2) th Burrows (C8)
Type: noi Depth (inc emarks: Hyd IYDROLOG (etland Hydrol rimary Indicate Surface V High Wat Saturatior Water Ma Sediment	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)		Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Rh	na (B13) its (B15)	1) Living Root	rs (C3)	Secondary In Surface X Draina Moss Dry-Se Crayfis Satura	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2)
Type: nointended not be a second not be a seco	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)		Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Rh	ina (B13) its (B15) ulfide Odor (C iizospheres on	1) Living Roof (C4)		Secondary Inc. Surface X Draina Moss Dry-Se Crayfis Satura Stunte	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) Jason Water Table (C2) Jah Burrows (C8) tion Visible on Aerial Imagery (C9
Type: nointended not be a second not be a seco	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2) soits (B3) or Crust (B4)		Water-Stain Aquatic Fau Marl Depos Hydrogen S Oxidized Rt Presence o' Recent Iron	ina (B13) its (B15) ulfide Odor (C iizospheres on f Reduced Iron	1) Living Roof (C4)		Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2) sh Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1)
Type: noi Depth (inc emarks: Hyd IYDROLOG fetland Hydrol rimary Indicate Surface V High Wat Saturatior Water Ma Sediment Drift Depc Algal Mat Iron Depo	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2) soits (B3) or Crust (B4)	s required: che	Water-Stain Aquatic Fau Marl Depos Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) its (B15) ulfide Odor (C iizospheres on f Reduced Iron Reduction in T	1) Living Root (C4) Filled Soils (Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) iason Water Table (C2) ish Burrows (C8) tion Visible on Aerial Imagery (C9 dor Stressed Plants (D1) prophic Position (D2) w Aquitard (D3) popographic Relief (D4)
Type: noi Depth (inc emarks: Hyd YDROLOG fetland Hydrol rimary Indicate Surface V High Wate Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) osits (B3) or Crust (B4) sits (B5)	s required: che	Water-Stain Aquatic Fau Marl Depos Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) its (B15) ulfide Odor (Cizospheres on FReduced Iron Reduction in 1 Surface (C7)	1) Living Root (C4) Filled Soils (Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3)
Type: noi Depth (inc emarks: Hyd IYDROLOG Tetland Hydrol rimary Indicate Surface V High Wat Saturatior Water Ma Sediment Drift Depc Algal Mat Iron Depc	y ogy Indicators: ors (minimum of one is Vater (A1) or Table (A2) or (A3) or (A3) or Crust (B4) osits (B5) or Visible on Aerial Ima	s required: che	Water-Stain Aquatic Fau Marl Depos Hydrogen S Oxidized Rh Presence of Recent Iron Thin Muck S	ina (B13) its (B15) ulfide Odor (Cizospheres on FReduced Iron Reduction in 1 Surface (C7)	1) Living Root (C4) Filled Soils (Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) iason Water Table (C2) ish Burrows (C8) tion Visible on Aerial Imagery (C9 dor Stressed Plants (D1) prophic Position (D2) w Aquitard (D3) popographic Relief (D4)
Type: noi Depth (incidemarks: Hyd IYDROLOG Vetland Hydrol rimary Indicate Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V ield Observati	y ogy Indicators: ors (minimum of one is Vater (A1) per Table (A2) nrks (B1) Deposits (B2) osits (B3) or Crust (B4) sits (B5) vegetated Concave Sciens:	s required: cho	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Rt Presence of Recent Iron Thin Muck S Other (Explain	ina (B13) its (B15) ulfide Odor (C- nizospheres on f Reduced Iron Reduction in 1 Surface (C7) ain in Remarks	1) Living Root (C4) Filled Soils (Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) iason Water Table (C2) ish Burrows (C8) tion Visible on Aerial Imagery (C9 dor Stressed Plants (D1) prophic Position (D2) w Aquitard (D3) popographic Relief (D4)
Type: noi Depth (inc emarks: Hyd IYDROLOG fetland Hydrol rimary Indicate Surface V High Wat Saturation Water Ma Sediment Iron Depo Inundation Sparsely feld Observat urface Water	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) ors (Tust (B4) sits (B5) n Visible on Aerial Ima Vegetated Concave Si ions: Present?	s required: che	Water-Stain Aquatic Fau Marl Depos Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Other (Explain	na (B13) its (B15) ulfide Odor (C ilizospheres on FReduced Iron Reduction in T Surface (C7) ain in Remarks	1) Living Root (C4) Filled Soils (Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) iason Water Table (C2) ish Burrows (C8) tion Visible on Aerial Imagery (C9 dor Stressed Plants (D1) prophic Position (D2) w Aquitard (D3) popographic Relief (D4)
Type: nointended to perform the control of the cont	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) or Crust (B4) sits (B5) n Visible on Aerial Ima Vegetated Concave So ions: Present? Yesent? Yesent?	s required: che	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Ri Presence or Recent Iron Thin Muck S Other (Explain o X Depth (inc	na (B13) its (B15) ulfide Odor (C idition of C idition of Reduced Iron Reduction in 1 Surface (C7) ain in Remarks thes):	1) Living Root (C4) Filled Soils (C6)	Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) asson Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5)
Type: noi Depth (incidential properties) HYDROLOG HYDROLOG Wetland Hydrol rimary Indicate Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely ield Observat urface Water I water Table Pres ncludes capilla	y ogy Indicators: ors (minimum of one is Vater (A1) or Table (A2) or (A3) or Crust (B4) osits (B5) or Visible on Aerial Ima Vegetated Concave Si ions: Present? ent? or (A2) or (A3) o	s required: che	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Other (Expli	na (B13) its (B15) ulfide Odor (C- nizospheres on f Reduced Iron Reduction in 1 Surface (C7) ain in Remarks thes):	1) Living Roof (C4) Filled Soils (C6)	Secondary In Surface X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo Microt X FAC-N	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) hason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) sent? Yes X No
Type: nointended to provide the control of the cont	y ogy Indicators: ors (minimum of one is Vater (A1) or Table (A2) or (A3) or Crust (B4) osits (B5) or Visible on Aerial Ima Vegetated Concave Si ions: Present? ent? or (A2) or (A3) o	s required: che	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Other (Expli	na (B13) its (B15) ulfide Odor (C- nizospheres on f Reduced Iron Reduction in 1 Surface (C7) ain in Remarks thes):	1) Living Roof (C4) Filled Soils (C6)	Secondary In Surface X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo Microt X FAC-N	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) eason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5)
Type: noi Depth (incidential properties) HYDROLOG Wetland Hydrol Irimary Indicate Surface V High Water Mater Mater Incidential profit Depo Inundation Sparsely V ield Observate urface Water Table Presencludes capille escribe Recores	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) soits (B3) or Crust (B4) sits (B5) n Visible on Aerial Ima Vegetated Concave Si ions: Present? ent? y ord (A)	s required: che	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Ri Presence of Recent Iron Thin Muck S Other (Expli	ina (B13) its (B15) ulfide Odor (C izospheres on i Reduced Iron Reduction in T Surface (C7) ain in Remarks ches): ches):	1) 1 Living Roof (C4) Filled Soils (Is Wetl	Secondary In Surface X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo Microt X FAC-N and Hydrology Pre	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) hason Water Table (C2) th Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) opographic Relief (D4) eutral Test (D5) sent? Yes X No
Type: noi Depth (inc Depth (inc Depth (inc Depth (inc) Depth (inc) Depth (inc) Depth (inc) Depth (inc) Surface Water May Sediment Drift Depote Inundation Sparsely Valuation Presence Water I value Presence Security Records Capille Prescribe Records Valuation Presence Valuation Pr	y ogy Indicators: ors (minimum of one is Vater (A1) er Table (A2) of (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4) sits (B5) or Visible on Aerial Ima vegetated Concave Si ions: Present? ent? ory fringe) ded Data (stream gau apy (Figure 3, Append (Appendix 2)	s required: che agery (B7) urface (B8) esN esN ge, monitoring	Water-Stair Aquatic Fau Marl Depos Hydrogen S Oxidized Ri Presence or Recent Iron Thin Muck S Other (Explain	ana (B13) its (B15) ulfide Odor (C introduced Iron Reduced Iron Reduction in 1 Surface (C7) ain in Remarks thes): thes): evious inspect 5, 2007 and 20	1) 1 Living Roof (C4) Filled Soils (s) ions), if avai	Is Wetl	Secondary In Surfac X Draina Moss Dry-Se Crayfis Satura Stunte X Geom Shallo Microt X FAC-N and Hydrology Pre	dicators (minimum of two required e Soil Cracks (B6) ge Patterns (B10) Frim Lines (B16) hason Water Table (C2) hh Burrows (C8) tion Visible on Aerial Imagery (C9 d or Stressed Plants (D1) orphic Position (D2) w Aquitard (D3) oppographic Relief (D4) eutral Test (D5) sent? Yes X No ppendix 1), WDNR Surface Water

Project/Site:	29.3-Acre Site Southeast of STH 59 &	стн х	City/County:	Waul	kesha/Waukesha	Sampling Date:	7/27/15
Applicant/Owner:		ssociates, In			State: WI		25
Investigator(s):			Section			SE 1/4 Sec 17, T6N, F	
Landform (hillslope,	terrace, etc.): hill	Islope			•	-	onvex
' '	<u>%</u> Lat:		Long:			Datum:	
	e: Brookston silt loam, 0-3% slopes (sification: S3/E2K	
•	gic conditions on the site typical for this tir	-	Yes X	No		y answers in Remarks.)	W N-
	N Soil N or Hydrology N				Are "Normal Circumst	· ·	No
Are Vegetation	N Soil N or Hydrology N	naturally pro	blematic?		(If needed, explain any	y answers in Remarks)	
SUMMARY OF FI	NDINGS - Attach site map showing	sampling p	oint locations	s, transec	ts, important feature	es, etc.	
Hydrophytic Veget	ation Present? YesNo	x_	ls	the Sampl	ed Area within		
Hydric Soil Presen	t? Yes No	о х		Wetland?		No X	
Wetland Hydrology				If yes, opti	onal Wetland Site ID:	none - U	pland
	alternative procedures here or in a separa		Plant commun	ity is degra	ded "old-field"		
VEGETATION -	Use scientific names of plants.				Dominance Test wor	ksheet:	
T 011 (DI-1	ation and the COL and the Col	Absolute %	Dominant Species?	Indicator Status			
Tree Stratum (Plot	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant Are OBL, FACW, or f	•	(A)
					Ale OBL, I ACVI, or i	170.	(//
					T. 4 . 1 N		
					Total Number of Don Across All Strata:		3 (B)
5.					Across Air Ottala.	-	(5)
0			_		Description of Description	Cassias That Ara	
6		-			Percent of Dominant OBL, FACW, or FAC		3% (A/B)
-		0%	= Total Cover		082,17,011,017,0		(0 0)
Capling/Chrub Ctra	atum (Plot size: equiv to 15' radius)	0 70	- Total Cover		Prevalence Index wo	rksheet:	
					Total % Cover of:	Multiply	bv:
					OBL species	x 1 =	
3		-			FACW species	x 2 =	
4					1	x 3 =	
_		- 7			FACU species	x 4 =	
					UPL species	x 5 =	
7.					Column Totals:	(A)	(B)
		0%	= Total Cover		Prevalence Inc		
Herb Stratum (Plo	ot size: equiv to 5' radius)				Hydrophytic Vegetation	on Indicators:	
1. Solidago cana		70%	Υ	FACU	Rapid Test for Hyd	drophytic Vegetation	
2 Poa pratensis		50%	Y	FACU	Dominance Test is	s >50%	
3. Phalaris aruno		50%	Υ	FACW	Prevalence Index	is ≤3.0¹	
4.					Morphological Ada	aptations1 (Provide suppor	ting data in
_					Remarks or on a s	, , , , , , , , , , , , , , , , , , , ,	•
					Problematic Hydro	ophytic Vegetation¹ (Explai	in)
7.							
8.					1	soil and wetland hydrology	must be present,
_					unless disturbed or p		
10					Definitions of Vegeta		
						3 in. (7.6cm) or more in di	ameter at breast
12.					height (DBH), regard	•	
Mondy Vina Stratu	m (Plot size: equiv to 30' radius)	170%	= Total Cover		Sapling/shrub - Wood 3.28 (1m) tall	dy plants less than 3 in Di	3H and greater than
	m (Plot size: equiv to 30' radius)					s (non-woody) plants, rega	ardless of size, and
					woody plants less tha		10 ft in height
3					vvoody vines - All wo	ody vines greater than 3.2	o it in rieignt
4					Is Hydrophytic Vege	etation	
		0%	= Total Cover		Present?	Ye	sNo_X_
Remarks: (Include	photo numbers here or on a separate she		ommunity is a	degraded o	old-field.		
		,	.,	•			

_	_	

Sampling Point:

Inches) Color (minist) 5, Color (molet) 9, Type: Loc! Toature Remarks 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 13-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 14-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 15-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 15-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 15-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 15-24 10YR 4/2 99% 10YR 5/4 11% C M sitty clay loam 15-24 10YR 4/2 99% 10YR 5/4 11% 10YR 5/4 1	Depth	Matrix			Redo	x Features			
Type: C=Concentration D=Depletion, RM-Reduced Matrix, MS-Masked Sand Grains	inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. PLocation: PL=Pora Lining, M=Matrix, lydric Soil Indicators: Indicators for Proceiments Hydric Soil-Research Halosca (A) Halosca (A) Polyvalue Below Surface (S7) (LRR R, MLRA 149B) Black Halist (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Halist (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Stratified Layers Stratified Layers Lounny Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S7) (LRR K, L) Thin Dark Surface (S7) (LRR K, L) Thin Dark Surface (S7) (LRR K, L) Dark Surface (S7) (LRR K, L) Thin Dark Surface (S7) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Thin Dark Surface (0-13	10YR 2/1	100%					silt loam	
Histic Epipedon (A2) Polyvalue Below Surface (S7) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Sorn Muck (A10) (LRR K, L, MLRA 149B) Sorn Muck (A10) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Sorn Muck (A10) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 149B) Sorn Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyod Matrix (S4) Red Permitted (S4) Red Permitted (S4) Red Permitted (S4) Redox Depressions (F8) Principal Matrix (F8) P	13-24	10YR 4/2	99%	10YR 5/4	1%	С	M	silty clay loam	
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Indicators for Problematic Hydric Solis* Histos (A1)									
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ydric Soil Indicators: Histoso (A1) Dark Surface (S7) (LRR R, MLRA 1498) Dark Surface (S7) (LRR R, MLRA 1498) Dark Surface (S9) (LRR R, MLRA 1498) Dark Surface (S9) (LRR R, MLRA 1498) Black Histis (A3) Thin Dark Surface (S9) (LRR R, MLRA 1498) Despeted Mukey Mineral (F1) (LRR K, L, R) Hydropen Surface (A1) Despeted Martix (F2) Despeted Martix (F2) Despeted Martix (F3) Thin Dark Surface (F1) (LRR K, L, R) Despeted Below Dark Surface (A11) Despeted Martix (F2) Thick Dark Surface (A12) Redox Dark Surface (A12) Redox Dark Surface (A12) Redox Dark Surface (F1) Thin Dark Surface (F1) Thin Dark Surface (A12) Redox Dark Surface (F1) Thin Dark Surface (F1) Thin Dark Surface (F1) Thin Dark Surface (A12) Redox Dark Surface (F1) Thin Dar									
Histosol (A1) Dark Surface (S7) (LRR R, MLRA 1498) 2 cm Muck (A10) (LRR K, L, MLRA 1498) Histo Epipedon (A2) Polyvalue Below Surface (S8) (LRR R, MLRA 1498) Coast Prairie Redox (A16) (LRR K, L, R) Polyvalue Below Surface (S9) (LRR R, MLRA 1498) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Dark Surface (S9) (LRR K, L) Third Dark Surface (A12) Redox Dark Surface (F6) Thin Dark Surface (S9) (LRR K, L) Trin			n, RM=Reduced	Matrix, MS=Masked	Sand Grains				
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Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Muckly Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Muckly Mineral (F1) (LRR K, L) Dark Surface (A57) (LRR K, L, M) Dark Surface (A57) (LRR K, L, M) Dark Surface (A57) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thic Dark Surface (A59) (LRR K, L) Thic Dark Surface (A51) Depleted Matrix (F3) Thic Dark Surface (S9) (LRR K, L) Thic Dark Surface (S9) (LRR K, L) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Pledmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (TF2) Red Parent Material (TF2) Redox Dark Surface (S6) Very Shallow Dark Surface (TF12) Masic Spodic (TA6) Depth (inches): Infa De	Histosol (/	A1)		Dark Surface	(S7) (LRR R,	MLRA 149	3)	-	
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Polyvature Below Surface (S7) (LRR K, L, M) Stratified Layers (A5) Depleted Matrix (F2) Followate Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Pelmont Floodplain Soils (F19) (MLRA 149B) Red Parent Material (TF2) Very Shallow Dark Surface (F7) Per Manganese Masses (F12) (LRR K, L, R) Red Parent Material (TF2) Very Shallow Dark Surface (F7) Per Mark (S6) Other (Explain in Remarks) Polyvative Layer (If Observed): Type: none Depth (inches): n/a Indicators (minimum of two required) Polyvative Layer (If Observed): Type: none Depth (inches): n/a Indicators (minimum of two required) Water Marks (B1) High Water Table (A2) Aquate Fauna (B13) Mass Trim Lines (B16) Dy-Season Water Table (A2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Till Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (C7) Spatial Water Marks (B1) Iron Deposits (B3) Thin Muck Surface (B1) Iron Deposits (B3) Iron Deposits (B3) Thin Muck Surface (B1) Iron Deposits (B3) Iron Deposits (B3) Ir	Histic Epi	pedon (A2)		Polyvalue Bel	low Surface (S	8) (LRR R,	MLRA 149	B Coast Prairie F	ledox (A16) (LRR K, L, R)
Stratified Layers (A5) Depleted Below Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (S1) Depleted Below Dark Surface (S1) Redox Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Shripped Matrix (S4) Redox Depressions (F8) Redox Derpessions (F8) Redox Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Redox Depressions (F8) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Mesic Spodic (TA8) Other (Explain in Remarks) Restrictive Layer (If observed): Type: none Depth (inches): n/a Depth (inches): n/a Everarias: Does not meet a hydric soil indicator. Soils are dry. PVDROLOGY In Materias (B1) Water-Stained Leaves (B9) Water Material (TF2) Water Material (TF2) Mesic Spodic (TA8) Other (Explain in Remarks) Presence of Nydrology Indicators (minimum of two required): Property of the Company of the Carlos (B1) Surface Soil Cracks (B6) Propesson Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) High Water Table (A2) Water Marks (B1) Water Marks (B1) Water Marks (B1) Presence of Reduced Iron (C4) Sediment Deposits (B2) Ordicated Rhizospheres on Living Roots (C3) Saturation (Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Spesson (Figure 1, Appendix 1), WDNR Surface Water Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetla	Black Hist	tic (A3)		Thin Dark Sur	rface (S9) (LR	R R, MLRA	149B)	5 cm Mucky Pe	eat or Peat (S3) (LRR K, L, R)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Muky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Redox (S5) Surfoped Matrix (S6) Surfoped Matrix (S6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) Estrictive Layer (if observed): Type: none Depth (inches): n/a emarks: Does not meet a hydric soil indicator. Soils are dry. PYPROLOGY Petand Hydrology Indicators: Imary Indicators (minimum of one is required: check all that apply) Surface Water (A11) High Water Table (A2) Aquator Fauna (B13) Moss Trim Lines (B16) High Water Table (A2) Adard Fauna (B13) Moss Trim Lines (B16) Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recemental Imagery (B7) Sparsely Vegetated Concave Surface (B8) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recemental Imagery (B7) Sparsely Vegetated Concave Surface (B8) Eld Observations: Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Present? Yes No X Depth (inches): Is Wetland Hydrology Indicators Observed. WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5C) also indicates	Hydrogen	Sulfide (A4)		Loamy Mucky	Mineral (F1)	(LRR K, L)		Dark Surface (S7) (LRR K, L, M)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Red Parent Material (TF2) Sandy Metky (S5) Stripped Matrix (S6) Stripped Matrix (S6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) Type: none Depth (inches): n/a Type: none						. ,			
Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyd Matrix (S4) Redox Depressions (F8) Red Parent Material (TF2) Sandy Redox (S5) Red Parent Material (TF2) Sandy Redox (S5) Red Parent Material (TF2) Sandy Redox (S5) Red Parent Material (TF2) Massic Spodic (TA8) Masic Spodic (TA8) Masic Spodic (TA8) Masic Spodic (TA8) Masic Spodic (TA8) Other (Explain in Remarks) Is Hydric Soil Present? Yes No Depth (Inches): Indicators of Note (Explain in Remarks) In High Water A11 Surface Water (A1) Presents (B16) Masic Spodic (TA8) Is Hydric Soil Present? Yes No Depth (Inches): Masic Spodic (TA8) In High Water Table (A2) Mater Marks (B1) Moss Trim Lines (B16) Mass Trim Lines (B16) Ma			\11)						
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Red Parent Material (TF2) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Mesic Spodic (TA6) Very Shallow Dark Surface (TF12) Mesic Spodic (TA6) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: none Depth (inches): n/a Is Hydric Soil Present? Yes No Depth (inches): n/a Interpretation of the present of t		•	,		` '				
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Red Parent Material (TF2) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Sandy Redox (S5) Very Shallow Dark Surface (TF12) Sirripped Matrix (S8) Other (Explain in Remarks) Cladicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Type: none Depth (inches): n/a Is Hydric soil Indicator, Soils are dry. IVDROLOGY Vettand Hydrology Indicators: Surface Soil Cracks (B8) Drainage Patterns (B10) High Water (A1) High Water (A1) Sutraction (A3) Mand Deposits (B15) Saturation (A3) Mand Deposits (B15) Sediment Deposits (B2) Oxidez Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat of Crust (B4) Recent Iron Reduction in Titled Soils (C6) Iron Deposits (B5) Iron D		, ,	19						, , , , , , , , , , , , , , , , , , , ,
Sandy Redox (S5) Stripped Matrix (S6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Setrictive Layer (if observed): Type:none Depth (inches):n/a marks: Does not meet a hydric soil indicator. Soils are dry. No_2			- 4					-	
Stripped Matrix (S6) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sestrictive Layer (if observed): Type: none Depth (inches): n/a	_		-	Redox Depres	ssions (F6)				· ·
Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Cother (Explain in Remarks)		. ,						-	
Interpretation (As) Welland Hydrology Indicators: Intimary Indicators (minimum of one is required: check all that apply) Surface Vater (A1) Substantian (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Drift Deposits (B3) Drift Deposits (B3) Presence of Reduced Iron (C4) Surface Vater (B4) Recent Iron Reduction in Titled Soils (C6) Recent Iron Reduction in Titled Soils (C6) Recent Iron Reduction in Titled Soils (C6) Sparsely Vegetated Concave Surface (B8) Itiled Observations: Itiled		` '							
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ata Viewer Map (Figure 3, Appendix 1), aerial photos from 2000, 2005, 2007 and 2010 (Figures 4A-D, Appendix 1), NOAA Precip Maps (Figures 5A-C, Append), WETS Data (Appendix 2) emarks: No wetland hydrology indicators observed. WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5C) also indicates	Restrictive Lay Type: nor Type: nor Depth (incl Remarks: Does HYDROLOG Wetland Hydrol Primary Indicate Surface W High Wate Saturation Water Mai Sediment Drift Depo Inundation Sparsely \ ield Observati urface Water Fel	yer (if observed): ne hes): n/a s not meet a hydric s y ogy Indicators: ors (minimum of one is vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aerial Imag vegetated Concave St ions: Present? Yes	gery (B7) urface (B8)	k all that apply) Water-Staine Aquatic Fau Marl Deposit Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ed Leaves (B9 na (B13) ls (B15) ulfide Odor (C ¹ izospheres on Reduced Iron Reduction in T surface (C7) hin in Remarks hes):	1) Living Roo (C4) illed Soils (ts (C3)	Secondary Indi Surface Drainag Moss Tr Dry-Sea Crayfish Saturati Stunted Geomor Shallow Microtop FAC-Ne	cators (minimum of two required) Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) Aquitard (D3) cographic Relief (D4) utral Test (D5)
). WETS Data (Appendix 2) emarks: No wetland hydrology indicators observed. WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5C) also indicates	Restrictive Lay Type: nor Depth (incl Remarks: Does RYDROLOG Wetland Hydrole Frimary Indicate Surface W High Water Saturation Water Mai Sediment Drift Depo Algal Mat Iron Depoi Inundation Sparsely \ Wetland Observati	Y ogy Indicators: ors (minimum of one is Vater (A1) ar Table (A2) or Crust (B4) sits (B5) or Visible on Aerial Image Vegetated Concave Sulions: Orsent? Orsent.	gery (B7) urface (B8) esNo	k all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ed Leaves (B9 na (B13) ts (B15) ulfide Odor (C¹ izospheres on Reduced Iron Reduction in T surface (C7) sin in Remarks hes):	l) Living Roo (C4) illed Soils (ts (C3)	Secondary Indi Surface Drainag Moss Tr Dry-Sea Crayfish Saturati Stunted Geomor Shallow Microtop FAC-Ne	cators (minimum of two required) Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) Aquitard (D3) pographic Relief (D4) utral Test (D5)
emarks: No wetland hydrology indicators observed. WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5C) also indicates	Restrictive Lay Type: nor Depth (incl Remarks: Does HYDROLOG Vetland Hydrole Primary Indicate Surface W High Water Mai Sediment Drift Depo Algal Mat Iron Depo: Inundation Sparsely \ Sield Observati Surface Water Fe Vater Table Prese Includes capilla Describe Record	Y ogy Indicators: ors (minimum of one is Vater (A1) or Table (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Visible on Aerial Image (A2) or Visible on Aerial Image (A3)	gery (B7) urface (B8) es No es No es No	k all that apply) Water-Staine Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ed Leaves (B9 na (B13) ta (B15) ulfide Odor (C¹ izospheres on Reduced Iron Reduction in T surface (C7) sin in Remarks thes): thes):	l) Living Roo (C4) illed Soils ()	ts (C3) C6) Is Wet	Secondary Indi Surface Drainag Moss Tr Dry-Sea Crayfish Saturati Stunted Geomor Shallow Microtop FAC-Ne	cators (minimum of two required) Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) Aquitard (D3) bographic Relief (D4) utral Test (D5) ent? Yes No_ pendix 1), WDNR Surface Water
	Restrictive Lay Type: nor Depth (incl Remarks: Does HYDROLOG Wetland Hydrole Primary Indicate Surface W High Water Saturation Under Depoil Inundation Sparsely \ Wetland Observation Water Table Privater Table Presenctudes capilla Rescribe Record Rata Viewer Market Presenctudes Capilla Rata Viewer Rata Viewer Rata Viewer Rata Viewer Rata Viewer Rata Viewer Rata Vi	Y ogy Indicators: ors (minimum of one is Vater (A1) or Table (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Crust (B4) sits (B5) or Visible on Aerial Image (A2) or Visible on Aerial Image (A2) or Visible on Aerial Image (A3) or Visible on Aerial Image (A3) or Visible on Aerial Image (A3) or Visible on Aerial Image (A4)	gery (B7) urface (B8) es No es No es No	k all that apply) Water-Staine Aquatic Fau Marl Deposi Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ed Leaves (B9 na (B13) ta (B15) ulfide Odor (C¹ izospheres on Reduced Iron Reduction in T surface (C7) sin in Remarks thes): thes):	l) Living Roo (C4) illed Soils ()	ts (C3) C6) Is Wet	Secondary Indi Surface Drainag Moss Tr Dry-Sea Crayfish Saturati Stunted Geomor Shallow Microtop FAC-Ne	cators (minimum of two required) Soil Cracks (B6) e Patterns (B10) im Lines (B16) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) Aquitard (D3) bographic Relief (D4) utral Test (D5) ent? Yes No_ pendix 1), WDNR Surface Water
	Restrictive Lay Type: nor Type: nor Depth (incl Remarks: Does HYDROLOG Wetland Hydrole Trimary Indicate Surface W High Wate Saturation Water Mai Sediment Drift Depo Inundation Sparsely \\ Wetland Observati Surface Water Featuration Presence applied Rescribe Record Surface Water Mai Nett Table Presence and Viewer Mai Nett Sparse Mai Nett Sparse Mai Nett Sparse Mai Nett Sparse Mai	Yer (if observed): ne hes): n/a s not meet a hydric s yer (if observed): ne hes): n/a s not meet a hydric s yer ogy Indicators: ors (minimum of one is vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on Aerial Imag yegetated Concave Sc ions: Present? Ye ent? Ye ent? Ye ary fringe) ded Data (stream gaug ap (Figure 3, Appendi (Appendix 2)	gery (B7) urface (B8) s No es No ge, monitoring v ix 1), aerial pho	k all that apply) Water-Staim Aquatic Fau Marl Deposit Hydrogen St Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	ed Leaves (B9 na (B13) ts (B15) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T surface (C7) hin in Remarks hes): hes): hes):	1) Living Roo (C4) illed Soils () ons), if ava	ts (C3) C6) Is Wet	Secondary Indi Surface Drainag Moss Tr Dry-Sea Crayfish Saturati Stunted Geomor Shallow Microtop FAC-Ne	cators (minimum of two required) Soil Cracks (86) e Patterns (B10) im Lines (B16) son Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) or Stressed Plants (D1) phic Position (D2) Aquitard (D3) cographic Relief (D4) utral Test (D5) ent? Yes No pendix 1), WDNR Surface Water cip Maps (Figures 5A-C, Appen
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	29.3-Acre Site Southeast of STH 59	a CINX	City/County	vvau	kesha/Waukesha	Sampling Date:	7/27/15
Applicant/Owner:	Kapur &	Associates, In	c.		State: WI	Sampling Point:	26
nvestigator(s):	Tina M. Myers, PWS & Heather D. P	atti, PWS	Section	, Township	, Range:	SE 1/4 Sec 17, T6N	, R19E
andform (hillslope, t	terrace, etc.): groundwa	ter slope wetla	ind	Local	relief (concave, convex	x, none):	convex
Slope (%): 1-2			Long:			Datum:	
Soil Map Unit Name:	Brookston silt loam, 0-3% slopes	(BsA)			WWI class	sification: S3/E2K	
Are climatic/hydrolog	gic conditions on the site typical for this	time of year?	Yes X	No	(If needed, explain an	y answers in Remarks.)	
Are VegetationI	N Soil N or Hydrology N	significantly	disturbed?		Are "Normal Circums	stances" present? Ye	es X No
Are VegetationI	N Soil N or Hydrology N	naturally pro	blematic?		(If needed, explain an	y answers in Remarks,)	
NUMBER A DV OF FIR	NDINGO AMELE IME INCIDENCIA		-!4 4		t	na ata	
SUMINARY OF FIR	NDINGS - Attach site map showin	g sampling p	oint locations	s, transec	ts, important leature	es, etc.	
Hydrophytic Vegeta	ition Present? Yes X	No	le	the Sampl	ed Area within		
Hydric Soil Present	? Yes X	No		Wetland?	Yes	X No	
Wetland Hydrology					onal Wetland Site ID:		1-4
	alternative procedures here or in a sepa	_	hallow march			riod is intermittent here	
itemarks. (Explain a	sitemative procedures here of in a sept	arate report.)	manow marsh	piant com	munity. The nyuroper	iou is micrimitent ner	•
VEGETATION - U	Jse scientific names of plants.						
		Absolute %	Dominant	Indicator	Dominance Test wor	rksheet:	
Tree Stratum (Plot :	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant	t Species That	
,		-			Are OBL, FACW, or		4 (A)
^					1		
3					Total Number of Don	minant Species	
4					Across All Strata:	minant opcoles	4 (B)
_							. ,
^					Percent of Dominant	Species That Are	
-					OBL, FACW, or FAC	•	100% (A/B)
,		0%	= Total Cover				
Sapling/Shrub Strat	tum (Plot size: equiv to 15' radius)	-			Prevalence Index wo	orksheet:	
1. Salix bebbiana		5%	Υ	FACW	Total % Cover of:	Multi	oly by:
2. Acer negundo		5%	Y	FAC	OBL species		
3.							
4.						x 3 =	200
					FACU species		
•					UPL species	x 5 =	
7.					Column Totals:	(A)	(B)
		10%	= Total Cover		Prevalence Inc	dex = B/A =	
Herb Stratum (Plot	size; equiv to 5' radius)				Hydrophytic Vegetati	ion Indicators:	
1. Typha X glauca	3	100%	Y	OBL	Rapid Test for Hyd	drophytic Vegetation	
2. Phalaris arundi	inacea	50%	Y	FACW	X Dominance Test is	s >50%	
3. Solidago canad	densis	10%	N	FACU	Prevalence Index	is ≤3.01	
4. Symphyotrichu	ım puniceum	5%	N	OBL	Morphological Ada	aptations¹ (Provide supp	orting data in
5,		_			Remarks or on a		
6.					Problematic Hydro	ophytic Vegetation¹ (Exp	lain)
7							
8						soil and wetland hydrolo	gy must be present,
9					unless disturbed or p		
10					Definitions of Vegeta		
11					Tree - Woody plants height (DBH), regard	3 in. (7.6cm) or more in	diameter at breast
12						•	550
		165%	= Total Cover		, ,	dy plants less than 3 in,	DBH and greater than
Woody Vine Stratun	n (Plot size: equiv to 30' radius)				3 28 (1m) tall.	,	
1					Herb - All herbaceous woody plants less that	s (non-woody) plants, re	gardiess of size, and
2							00.00
3,					Woody vines - All wo	ody vines greater than	3.28 ft in height.
4.					Is Hydrophytic Vege	etation	
-		00/	= Total Cover		Present?		Voc V No
		0%	- Total Cover		Fresenti		Yes X No
	photo numbers here or on a separate s			vithin a sh	Signature and the signature an		165 X NO

								Sampling Point: 20
Profile Descrip	otion: (Describe to the	e depth need	ded to document the ir	ndicator or co	nfirm the	absence of	indicators.)	
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-16	10YR 2/1	95%	2.5YR 4/8	5%	С	M/PL	muck	
16-24	10YR 5/1	80%	10YR 5/8	30%	C	M	silty clay loam	
		-			-			
					_	-		
	-	-			_			
					-			
Type: C=Cond	centration, D=Depletion	n. RM=Reduc	ced Matrix, MS=Masked	Sand Grains.	-		²Location: P	L=Pore Lining, M=Matrix.
lydric Soil Inc		1, 1111 110000	TO A THIRD IN THE THIRD IN THE THE				Indicators for Problems	
•			Dark Surface	(S7) (LRR R,	MI DA 140	R)		(LRR K, L, MLRA 149B)
X Histosol (•						-	ox (A16) (LRR K, L, R)
X Histic Epi			-	low Surface (S	, ,		-	
Black His	, ,		-	rface (S9) (LR		(149B)		or Peat (S3) (LRR K, L, R)
	Sulfide (A4)			Mineral (F1)	(LRR K, L)		Dark Surface (S7)	
Stratified	Layers (A5)		Loamy Gleye					Burface (S8) (LRR K, L)
Depleted	Below Dark Surface (A	111)	Depleted Mat	rix (F3)			Thin Dark Surface	
X Thick Dar	rk Surface (A12)		Redox Dark S	Surface (F6)			Iron-Manganese N	Masses (F12) (LRR K, L, R)
Sandy Mu	ucky Mineral (S1)		Depleted Dar	k Surface (F7)			Piedmont Floodpla	ain Soils (F19) (MLRA 149B)
Sandy Gl	eyed Matrix (S4)		Redox Depre	ssions (F8)			Red Parent Mater	ial (TF2)
Sandy Re				, ,			Very Shallow Dark	Surface (TF12)
	Matrix (S6)						Mesic Spodic (TA	3)
	, ,	and wetland	hydrology must be pres	ent unless dis	turbed or r	roblematic	Other (Explain in 6	
		dia modalia	my droingy mark to pro-			1		
	yer (if observed):							
Type: no								
Depth (inc	hes): n/a						Is Hydric Soil Present	? Yes X No_
pehui (ilic		A Calla and	moist, but not saturate	ed.				
	ric soil criterion is me	et. Sons are						
	ric soil criterion is me	et. Sons are						
	ric soil criterion is me	et. Solis are						
	ric soil criterion is mo	et. Solls are						
	ric soil criterion is m	et. Solis are						
Remarks: Hyd		et. Solis are						
Remarks: Hyd	Υ	et. Solis are						
Remarks: Hyd HYDROLOG Wetland Hydrol	Y ogy Indicators:							
Remarks: Hyd HYDROLOG Wetland Hydrol Primary Indicate	Y logy Indicators: ors (minimum of one is						Surface So	il Cracks (B6)
Remarks: Hyd HYDROLOG Wetland Hydrol Primary Indicate Surface V	logy Indicators: ors (minimum of one is Vater (A1)		Water-Stain	ed Leaves (B9)		Surface So Drainage P	il Cracks (B6) atterns (B10)
Remarks: Hyd HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2)		Water-Stain Aquatic Fau	na (B13))		Surface So Drainage P Moss Trim	il Cracks (B6) latterns (B10) Lines (B16)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wat Saturatior	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3)		Water-Stain Aquatic Fau Marl Deposi	na (B13) ts (B15)			Surface So Drainage P Moss Trim Dry-Seasoi	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturatior Water Ma	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) orks (B1)		Water-Stain Aquatic Fau Marl Deposi Hydrogen Si	na (B13) ts (B15) ulfide Odor (C	1)	ots (C3)	Surface So Drainage P Moss Trim Dry-Season Crayfish Bu	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) ırrows (C8)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wat Saturatior Water Ma Sediment	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2)		Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh	na (B13) ts (B15) ulfide Odor (C1 izospheres on	1) Living Roo	ots (C3)	Surface So Drainage P Moss Trim Dry-Season Crayfish Bu Saturation	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) ırrows (C8)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) urks (B1) Deposits (B2) osits (B3)		Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh Presence of	na (B13) ts (B15) ulfide Odor (C	Living Roo (C4)		Surface So Drainage P Moss Trim Dry-Season Crayfish Bu Saturation Stunted or	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) Irrows (C8) Visible on Aerial Imagery (C9)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) in (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4)		Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh Presence of	na (B13) ts (B15) ulfide Odor (C izospheres on Reduced Iron Reduction in T	Living Roo (C4)		Surface So Drainage P Moss Trim Dry-Season Crayfish Bu Saturation Stunted or	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) in (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4)	s required: ch	Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) ts (B15) ulfide Odor (C izospheres on Reduced Iron Reduction in T	l) Living Roo (C4) Tilled Soils		Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
HYDROLOG Wetland Hydrol Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4) esits (B5)	s required: ch	Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) ts (B15) ulfide Odor (C izospheres on Reduced Iron Reduction in T Surface (C7)	l) Living Roo (C4) Tilled Soils		Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) arrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wat Saturatior Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely	logy Indicators: ors (minimum of one is Vater (A1) or (A3) orks (B1) Deposits (B2) orks (B3) or Crust (B4) or Visible on Aerial Ima, Vegetated Concave Su	s required: ch	Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh Presence of Recent Iron Thin Muck S	na (B13) ts (B15) ulfide Odor (C izospheres on Reduced Iron Reduction in T Surface (C7)	l) Living Roo (C4) Tilled Soils		Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely V	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rrks (B1) Deposits (B2) osits (B3) or Crust (B4) esits (B5) n Visible on Aerial Imag	s required: ch gery (B7) urface (B8)	Water-Stain Aquatic Fau Marl Deposi Hydrogen St X Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ts (B15) ulfide Odor (C- izospheres on Reduced Iron Reduction in T Surface (C7) ain in Remarks	l) Living Roo (C4) Tilled Soils		Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog	latterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observat Surface Water I	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) rks (B1) Deposits (B2) orsits (B3) or Crust (B4) sits (B5) n Visible on Aerial Ima Vegetated Concave Su itions: Present?	gery (B7) urface (B8)	Water-Stain Aquatic Fau Marl Deposi Hydrogen Si X Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ts (B15) ulfide Odor (C' izospheres on Reduced Iron Reduction in T Surface (C7) ain in Remarks	l) Living Roo (C4) Tilled Soils		Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9 Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observate Surface Water I	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4) esits (B5) n Visible on Aerial Imag Vegetated Concave Su cions: Present? Yeesent?	gery (B7) urface (B8)	Water-Stain Aquatic Fau Marl Deposi Hydrogen Si X Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ts (B15) ulfide Odor (Criticology Reduced Iron Reduction in T Surface (C7) ain in Remarks hes): hes):	l) Living Roo (C4) Tilled Soils	(C6)	Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog X FAC-Neutri	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) arrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)
HYDROLOG Wetland Hydrol Primary Indicate Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Sparsely Field Observat Surface Water I	logy Indicators: ors (minimum of one is Vater (A1) er Table (A2) n (A3) orks (B1) Deposits (B2) osits (B3) or Crust (B4) sits (B5) n Visible on Aerial Image Vegetated Concave St cions: Present? yeesent? yeent? yeent?	gery (B7) urface (B8)	Water-Stain Aquatic Fau Marl Deposi Hydrogen Si X Oxidized Rh Presence of Recent Iron Thin Muck S Other (Expla	na (B13) ts (B15) ulfide Odor (Criticology Reduced Iron Reduction in T Surface (C7) ain in Remarks hes): hes):	l) Living Roo (C4) Tilled Soils	(C6)	Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu Saturation Stunted or Geomorphi Shallow Ad Microtopog	il Cracks (B6) latterns (B10) Lines (B16) n Water Table (C2) arrows (C8) Visible on Aerial Imagery (C9 Stressed Plants (D1) c Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)

1), WETS Data (Appendix 2)
Remarks: WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5C) also indicates normal range, however it is the dry end of the normal range. Farming was avoided here based on older aerial photography (see 2000 aerial). This appears to be a groundwater slope wetland.

Project/Site:	29.3-Acre Site Southeast of STH 59 &	CTH X	City/County:	Wau	kesha/Waukesha	Sampling Date:	7/27/15
pplicant/Owner:		ssociates, Inc			State: WI		27
nvestigator(s):	Tina M. Myers, PWS & Heather D. Pa	atti, PWS	Section		, Range:	SE 1/4 Sec 17, T6N,	
andform (hillslope,	terrace, etc.):	illslope		Local	relief (concave, convex	(, none):	convex
lope (%): <u>2-3</u>			Long:			Datum:	
	Brookston silt loam, 0-3% slopes					sification: S3/E2K	
, ,	gic conditions on the site typical for this t	•		No	(If needed, explain any		
	N Soil N or Hydrology N				Are "Normal Circumst		s <u>X</u> No
re Vegetation	N Soil N or Hydrology N	_ naturally prol	olematic?		(If needed, explain any	y answers in Remarks.)	
UMMARY OF FII	NDINGS - Attach site map showing	g sampling p	oint locations	s, transec	ts, important feature	es, etc.	
Hydrophytic Vegeta	ation Present? YesN	lo X	le	the Samp	led Area within		
Hydric Soil Present				Wetland?		No X	
Wetland Hydrology					ional Wetland Site ID:	none -	
	alternative procedures here or in a sepa		Neut commun				
	Use scientific names of plants.						
VEGETATION - C	ose scientific names of plants.				Dominance Test work	ksheet:	
T Ott (DI-t	single and the OOI sedius)	Absolute % Cover	Dominant Species?	Indicator Status			
,	size: equiv to 30' radius)		Species?	Status	 Number of Dominant Are OBL, FACW, or F 		1 (A)
				_	Ale ODL, I ACVV, OI I	Αο.	(//
2				-	T. I. I. N I I. D	-1101	
				-	Total Number of Dom Across All Strata:	linant Species	3 (B)
-				_	71010007111001414.	-	(-/
6					Percent of Dominant	Species That Are	
7				-	OBL, FACW, or FAC:	•	33% (A/B)
,		0%	= Total Cover		052,17,017,017,0		(/
Sanling/Shrub Strat	tum (Plot size: equiv to 15' radius)	070	- Total Cover		Prevalence Index wo	rksheet:	
4		ı			Total % Cover of:		ly by:
			-		OBL species	x 1 =	
					1	x 2 =	
				_	1	x 3 =	
-			-		FACU species	x 4 =	
					UPL species	x 5 =	
7		-	-		Column Totals:	(A)	(B)
		0%	= Total Cover		Prevalence Inc		
Herb Stratum (Plot	t size: equiv to 5' radius)				Hydrophytic Vegetation	on Indicators:	
1. Poa pratensis	Coles equivio o Tudido)	100%	Υ	FACU		drophytic Vegetation	
2 Solidago cana	densis	70%		FACU	Dominance Test is		
3. Phalaris arund		10%	Υ	FACW	Prevalence Index	is ≤3.0¹	
4. Asclepias syria		5%	N	UPL	Morphological Ada	aptations¹ (Provide supp	orting data in
5. Sonchus olera		5%	N	FACU	Remarks or on a s		
6. Solidago gigar		5%	N	FACW	Problematic Hydro	ophytic Vegetation¹ (Expl	ain)
7.							
8.						soil and wetland hydrolog	y must be present,
					unless disturbed or p	roblematic	
10					Definitions of Vegeta		
						3 in. (7.6cm) or more in	diameter at breast
12.					height (DBH), regardi	_	
Moody Vine Stratur	m (Plot size: equiv to 30' radius)	195%	≃ Total Cover		Sapling/shrub - Wood 3.28 (1m) tall	dy plants less than 3 in, l	DBH and greater than
					Herb - All herbaceous	s (non-woody) plants, re	gardless of size, and
					woody plants less that	an 3,28 ft tall.	
3,					Woody vines - All wo	ody vines greater than 3	.28 ft in height
4.							
		0%	= Total Cover		Is Hydrophytic Vege Present?		res No_X_
Remarks: (Include	photo numbers here or on a separate si	heet.) Plant co	mmunity is a	degraded o	old-field.		

SOIL								Sampling Point:	27
Profile Descrip	otion: (Describe to th	e depth need	ed to document the i	ndicator or co	nfirm the a	bsence of	indicators.)		
Depth	Matrix			Redo	x Features				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
0-16	10YR 2/1	100%					silt loam		
16-24	10YR 3/2	70%	10YR 5/6	30%	С	M	silty clay loam		
					_				
	-				-				
		-				-			
	-				+	-			
							A		
ype: C=Cond	centration, D=Depletio	n, RM=Reduc	ed Matrix, MS=Masked	Sand Grains.			²Location; F	L=Pore Lining, M=Mati	rix.
lydric Soil Inc	licators:						Indicators for Problem	atic Hydric Soils ^a :	
Histosol (A1)			(S7) (LRR R,				(LRR K, L, MLRA 149)	
	pedon (A2)			low Surface (S				lox (A16) (LRR K, L, R)	
Black His	` '			ırface (S9) (LR		149B)		or Peat (S3) (LRR K,	L, R)
	Sulfide (A4)			y Mineral (F1)	(LRR K, L)		Dark Surface (S7		,
	Layers (A5)		Loamy Gleye					Surface (S8) (LRR K, L e (S9) (LRR K, L)	-)
	Below Dark Surface (AT1)	Depleted Ma Redox Dark	. ,				Masses (F12) (LRR K,	L. R)
	k Surface (A12) ucky Mineral (S1)			rk Surface (F7)	1			lain Soils (F19) (MLRA	
	eyed Matrix (S4)		Redox Depre		,		Red Parent Mate	, , ,	,
Sandy Re							Very Shallow Dar	k Surface (TF12)	
	Matrix (S6)						Mesic Spodic (TA	(6)	
		and wetland h	ydrology must be pres	ent, unless dis	sturbed or p	roblematic	Other (Explain in	Remarks)	
Restrictive Lay	yer (if observed):								
Type: no									
Depth (inc	hes): n/a						Is Hydric Soil Presen	t? Yes	No
lemarks: Doe	s not meet a hydric s	soil indicator.	Soils are dry.						
YDROLOG	Y								
							Secondary Indica	tors (minimum of two re	equired)
and the second second	logy Indicators: ors (minimum of one i	s required che	ock all that anniv)					oil Cracks (B6)	oquii ou)
	Vater (A1)	a required. One		ed Leaves (B	9)			Patterns (B10)	
High Wat	er Table (A2)		Aquatic Fau					Lines (B16)	
Saturation			Marl Depos		41		name of the last o	on Water Table (C2) surrows (C8)	
Water Ma	ırks (B1) : Deposits (B2)			Sulfide Odor (C nizospheres or		ts (C3)		Visible on Aerial Image	erv (C9)
Drift Depo				f Reduced Iron	_	10 (00)		Stressed Plants (D1)	, (,
	or Crust (B4)			Reduction in		(C6)	Geomorph	nic Position (D2)	
Iron Depo			Thin Muck	Surface (C7)			-	quitard (D3)	
	n Visible on Aerial Ima		Other (Expl	ain in Remark	s)			graphic Relief (D4)	
Sparsely	Vegetated Concave S	urface (B8)					FAC-Neut	ral Test (D5)	
ield Observat	tions:					1			
Surface Water	Present? Y	esN							
Vater Table Pr		esN				le 10/0	land Hydrology Presen	it? Yes	No
Saturation Pres includes capilla		esN	Depth (inc	illes).		12 446	aana nyarology Fiesen		
Describe Recor	ded Data (stream gau	ge, monitoring	well, aerial photos, pr	evious inspec	tions), if ava	ilable: US	GS Map (Figure 1, Appe	endix 1), WDNR Surfac	e Wate
Data Viewer M	ap (Figure 3, Append	lix 1), aerial p	hotos from 2000, 200	5, 2007 and 2	010 (Figure	s 4A-D, A	ppendix 1), NOAA Prec	ip Maps (Figures 5A-C	, Apper
WETS Data	(Appendix 2)								
THE TO DUTY	undland budla- '-	diantart-	mind WETC data !	inator narmal	climatic as	nditions 5	or April- lupe NOAA r	nan (Figure 5C) also i	ndicate
emarks: No v	vetland hydrology in however it is the dry			icates normal	climatic co	onditions f	or April-June. NOAA r	nap (Figure 5C) also i	ndicate

Project/Site:	29.3-Acre Site Southeast of STH 59 8	стн х	City/County:	Waul	kesha/Waukesha	Sampling Date:	7/27/15
Applicant/Owner:	Kapur & A	Associates, In	c.		State: WI	Sampling Point:	28
Investigator(s):	Tina M. Myers, PWS & Heather D. P.	atti, PWS	Section	Township,	Range:	SE 1/4 Sec 17, T6	N, R19E
	terrace, etc.): groundwat				relief (concave, convex		
	3% Lat:		Long:			Datum:	
	Brookston silt loam, 0-3% slopes	(BsA)	-			sification: S3/E2K	
	gic conditions on the site typical for this		Yes X	No	(If needed, explain any	-)
	N Soil N or Hydrology N				Are "Normal Circums		es X No
		naturally pro				y answers in Remarks	
Are vegetation	N Soil N of Hydrology N	_ naturally pro	blei i atio:		(ii ficeded, explain an	y anowere in recinance	,
SUMMARY OF FI	NDINGS - Attach site map showing	g sampling p	oint locations	s, transect	ts, important feature	es, etc.	
Hydrophytic Vegeta	ation Present? Yes X I	No.		46 - 0 1	_ d		
			19	tne Sampi Wetland?	ed Area within	X No	
Hydric Soil Presen			"		onal Wetland Site ID:		W-5
Wetland Hydrology		No					
Remarks: (Explain	alternative procedures here or in a sepa	rate report.) S	Shallow marsh	plant com	nunity. The hydroper	iod is intermittent her	re.
VEGETATION							
VEGETATION -	Use scientific names of plants.				I s . Toolson	11	
		Absolute %	Dominant	Indicator	Dominance Test wor	Ksneet;	
Tree Stratum (Plot	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant		
1,					Are OBL, FACW, or f	FAC:	3 (A)
2							
3.					Total Number of Don	ninant Species	
4,					Across All Strata:		(B)
					Percent of Dominant	Species That Are	
7.					OBL, FACW, or FAC		100% (A/B)
		0%	= Total Cover				
Sapling/Shrub Stra	tum (Plot size: equiv to 15' radius)				Prevalence Index wo	rksheet:	
					Total % Cover of:	Mult	iply by:
					OBL species		
•					[
					1	x 3 =	
					FACU species		
_				-	UPL species		
6					Column Totals:		(B)
1.0			- T-4-1 C-11-1		Prevalence Inc		(6)
		0%	= Total Cover				
	t size; equiv to 5' radius)				Hydrophytic Vegetation		
1. Phalaris arund		50%	ΥΥ	FACW	X Rapid Test for Hyd		
2. Typha X glauc	a	40%	Y	OBL	X Dominance Test is		
3. Symphyotrich	um lanceolatum	40%	Y	FACW	Prevalence Index	is ≤3.0¹	
4. Symphyotrich	um puniceum	5%	N	OBL	Morphological Ada	aptations¹ (Provide sup	porting data in
5. Cirsium arven	se	2%	N	FACU	Remarks or on a s	separate sheet)	
6.					Problematic Hydro	ophytic Vegetation¹ (Ex	plain)
7.							
8.						soil and wetland hydrol	ogy must be present,
9.					unless disturbed or p	roblematic	
10		7			Definitions of Vegeta	tion Strata:	
4.4					Tree - Woody plants	3 in. (7.6cm) or more in	n diameter at breast
12.					height (DBH), regard	less of height.	
-		137%	= Total Cover	-	Sapling/shrub - Wood	dy plants less than 3 in	DBH and greater than
Moody Vine Stratu	m (Plot size: equiv to 30' radius)	10770	Total Gara		3.28 (1m) tall		
					Herb - All herbaceous	s (non-woody) plants, r	egardless of size, and
				-	woody plants less tha		
_			_	-	Woody vines - All wo	ody vines greater than	3.28 ft in height
3.				-	vvoody viiles - 7 iii vvo	ody villos grodior tridir	o zo k in noight
4.				-	Is Hydrophytic Vege	etation	
		0%	= Total Cover		Present?		Yes X No
Remarks: (Include	photo numbers here or on a separate s	heet.) Data no	int is located v	vithin a sh	allow marsh groundw	ater slope wetland.	
(IIIOIGGE		/ po					

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of Indicators.) Depth Matrix Color (moist) 5. Color (moist) 5. Type' Loo' Texture Remarks								Sampling Point: 28
Inchesis Solid S		ption: (Describe to th	e depth need	led to document the ir	ndicator or confirm th	e absence of	indicators.)	
0-10	Depth	Matrix			Redox Featur	es		
Trype: C+Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Tryper: C+Concentration, D=Depletion, RM=Reduced Sand Grains. Tryper: C+Concentrations. Tryper: C+Concentration, D=Deple	(inches)	Color (moist)	%	Color (moist)	% Type	Loc²	Texture	Remarks
Type: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Type: C-Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand KR, MLRA 149B) A Histo Epicedon (A2) Polyvation Below Call, C, L, MRRA 149B) Dark Surface (A1) Dark Surface (A1) Dark Surface (A1) Depletion Matrix, C(A1) Thirb Dark Surface (A12) Redor Dark Surface (F6) Lonary Surface Matrix, (F3) Sandy Mexy Marrat (S1) Depletion Matrix, C(A1) Sandy Lieuxy Marrat (S1) Sandy Lieuxy Marrat (S1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Matrix, C(A1) Type: Depletion Matrix, C(A1) Solity Companies Masked Sand Grains. Type: Depletion Companies Masked Sand Grains. Type: Depletio	0-10	10YR 2/1	95%	7.5YR 4/6	5% C	M/PL	muck	
Type: C-Concentration, D-Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. Hydric Soll Indicators: Histopol (A1) Dark Surface (S7) (LRR R, MLRA 149B) Black Histopol (A2) Polyvablue Below Surface (S9) (LRR R, MLRA 149B) Black Histopol (A2) Polyvablue Below Surface (S9) (LRR R, MLRA 149B) Surface (S9) (LRR K, L, M) Hydrogen Surface (A2) Learny Mitecy Matrix (F2) Loarny Glegord Matrix (F2) Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F7) Redox Dark Surface (F7) Sandy Glegord Matrix (S4) Sandy Glegord Matrix (S4) Sandy Glegord Matrix (S4) Sandy Redox (S5) Surface Matrix (S6) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Surface (F7) Redox Dark Matrix (S8) Surface Matrix (S9) Pridicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Wester (Friban) Depleted Server (F) Depleted Matrix (S8) Read Parent Matrix (S8) Was Special (F7) Was Surface (F7) Was Special (F7) Was Surface (F7) Was Surface (F7) Was Special (F7) Was Surface (F7) Was Surface (F7) Was Surface (F7) Was Surface (F7) Was Matrix (S8) Was Matri	10-24	10YR 4/1	85%	2.5Y 5/6	10% C	M	silty clay loam	
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Hydric Soil Indicators:	¹Type: C=Con	centration, D=Depletion	n. RM=Reduc	ed Matrix, MS=Masked	Sand Grains.		²Location: P	L≃Pore Lining, M=Matrix
Histosof (A1)								
Name	-			Dark Surface	(\$7) (LRR R, MLRA 1	49B)	2 cm Muck (A10)	(LRR K, L, MLRA 149B)
Black Histic (A3)		, ,		Polyvalue Be	low Surface (S8) (LRR	R, MLRA 149	B Coast Prairie Red	ox (A16) (LRR K, L, R)
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Prindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Cher (Explain in Remarks) Cher (Explain in Remarks)							Mesic Spodic (TA	3) ′
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Remarks: Hydric soil criterion is met. Soils are moist, but not saturated. HYDROLOGY	Type, III						Is Hydric Soil Present	? Yes X No
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includes capillary fringe)	HYDROLOG Wetland Hydrol Primary Indicat Surface V High Wat Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio Sparsely Field Observal Surface Water	lric soil criterion is mostly logy Indicators: ors (minimum of one is Nater (A1) ter Table (A2) n (A3) arks (B1) t Deposits (B2) posits (B3) t or Crust (B4) posits (B5) n Visible on Aerial Ima Vegetated Concave St tions: Present?	s required: ch	eck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S X Oxidized Rt Presence of Recent Iron Thin Muck S Other (Explain	led Leaves (B9) Ina (B13) Its (B15) Ilfide Odor (C1) Inizospheres on Living F F Reduced Iron (C4) Reduction in Tilled So Surface (C7) In in Remarks)	ils (C6)	Surface So Drainage F Moss Trim Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph Shallow Ad Microtopog X FAC-Neutr	il Cracks (B6) ratterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) to Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)
	HYDROLOG Wetland Hydrol Primary Indicate Surface V High Wat Saturation Water Ma Sediment Iron Depo Algal Mat Iron Depo Inundation Sparsely Field Observat Surface Water Water Table Pr	lric soil criterion is more soil criterion is more soil criterion is more soil criterion is more soil core (minimum of one is Nater (A1) ter Table (A2) in (A3) arks (B1) to Deposits (B2) posits (B3) to or Crust (B4) posits (B5) in Visible on Aerial Ima Vegetated Concave Soil core soil criterions: Present?	s required: ch	eck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S X Oxidized Rh Presence of Recent fron Thin Muck S Other (Explain	ned Leaves (B9) Ina (B13) Its (B15) Ilfide Odor (C1) Inizospheres on Living F F Reduced Iron (C4) Reduction in Tilled So Surface (C7) In in Remarks) In thes):	ils (C6)	Surface So Drainage F Moss Trim Dry-Seaso Crayfish Bi Saturation Stunted or Geomorph Shallow Ad Microtopog X FAC-Neutr	il Cracks (B6) ratterns (B10) Lines (B16) n Water Table (C2) urrows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1) to Position (D2) uitard (D3) raphic Relief (D4) al Test (D5)

1), WETS Data (Appendix 2)
Remarks: WETS data indicates normal climatic conditions for April-June. NOAA map (Figure 5C) also indicates normal range, however it is the dry end of the

normal range. Farming was avoided here based on older aerial photography (see 2000 aerial). Groundwater slope wetland

Project/Site:	29.3-Acre Site Southeast of STH 5	9 &CTH X	City/County	:Wau	kesha/Waukesha Sampling Date: 7/27/	15
Applicant/Owner:	Kapur	& Associates, Inc			State: WI Sampling Point: 29	9
nvestigator(s):	Tina M. Myers, PWS & Heather D.	Patti, PWS	Section	, Township	Range: SE 1/4 Sec 17, T6N, R19E	
andform (hillslope,	terrace, etc.):	hillslope		Local	relief (concave, convex, none):convex	
Slope (%): 2-3	8%Lat:		Long:		Datum:	
Soil Map Unit Name	Warsaw loam, 2-6% slopes (We	eB)			WWI classification: none	
Are climatic/hydrolo	gic conditions on the site typical for th	is time of year?	Yes X	No	(If needed, explain any answers in Remarks.)	
Are Vegetation	N Soil N or Hydrology	N significantly d	isturbed?		Are "Normal Circumstances" present? Yes X	No
Are Vegetation	N Soil N or Hydrology	N naturally prob	lematic?		(If needed, explain any answers in Remarks.)	
NUMBER A DV OF F	NDINGS Attack alternational	! !!			to live and and for the same of a	
SUMIMARY OF FI	NDINGS - Attach site map show	ing sampling po	oint locations	s, transec	ts, important features, etc.	
Hydrophytic Veget	ation Present? Yes	No X	le	the Sampl	ed Area within	
Hydric Soil Presen	? Yes	No X		Wetland?		
Wetland Hydrology		No X		If yes, opti	onal Wetland Site ID: none - Upland	
			lant commun		ded upland "old-field/scrub/shrub",	
itemains, (Explain	alternative procedures here of in a se	sparate report.)	iant commun	ity is degre	ded upland old-neid/actub/amab .	
VEGETATION -	Use scientific names of plants.					
120217111011	boo colonimo nambo di piarito.				Deminance Test workshoot:	
Tena Charles (D)	alter couly to 201 radius?	Absolute %	Dominant Species?	Indicator	Dominance Test worksheet:	
200	size: equiv to 30' radius)	Cover	Species?	Status	Number of Dominant Species That	. ()
1,			_	_	Are OBL, FACW, or FAC:	(A)
_			-			
			_	_	Total Number of Dominant Species	D)
_			-	-	Across All Strata: 4 (B)
			-			
6			-		Percent of Dominant Species That Are	A /D\
·			_ T-4-1 C		OBL, FACW, or FAC:	A/B)
0 11 101 1 01	(B) 4 1	0%	= Total Cover		December 1 Index and a bank	
	tum (Plot size: equiv to 15' radius)	0=0/	.,	FACIN	Prevalence Index worksheet:	
1. Salix interior		25%	Y	FACW	Total % Cover of: Multiply by:	
2. Zanthoxylum	americanum	20%	Υ	FACU	OBL species x1 =	
3,					FACW species x 2 =	
			-		FAC species x 3 =	
				-	FACU species x 4 =	
6,			-	-	UPL species x 5 = Column Totals: (A) (В)
/·		450/	- Total Cavas	_	Column Totals: (A)(Prevalence Index = B/A =	D)
Llask Charles (Dla	hairen envirate El endive)	45%	= Total Cover			
	t size: equiv to 5' radius)	4000/	v	EAGU	Hydrophytic Vegetation Indicators:	
1. Poa pratensis	d	100%	Υ	FACU	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%	
2 Solidago cana			Υ	FACU		
3. Asclepias syri		25%	N	UPL	Prevalence Index is ≤3 0¹	
4. Salix petiolaris		5%	N	FACW	Morphological Adaptations¹ (Provide supporting data	in
5 Quercus rubra		3%	N	FACU	Remarks or on a separate sheet)	
6.					Problematic Hydrophytic Vegetation¹ (Explain)	
7.					**Indicators of hydric soil and wetland hydrology must be	present
			_	_	unless disturbed or problematic.	procent,
9					Definitions of Vegetation Strata:	
			-	-	Tree - Woody plants 3 in. (7.6cm) or more in diameter a	t breast
					height (DBH), regardless of height.	
12		4020/	T-t-L C	-	Sapling/shrub - Woody plants less than 3 in. DBH and gi	reater than
Mandy Man Charle	m (Dist size) and to sell and the	193%	= Total Cover		3.28 (1m) tall	
	m (Plot size: equiv to 30' radius)				Herb - All herbaceous (non-woody) plants, regardless of	size and
1					woody plants less than 3.28 ft tall.	Jay, unu
					Woody vines - All woody vines greater than 3.28 ft in hei	iaht
3.					vvoody vines - All woody vines greater than 5.26 it in he	igiit.
4.					Is Hydrophytic Vegetation	
		0%	= Total Cover		Present? Yes	No X
		0 70	rotal ootol		Tresent:	

(inches)	Matrix							
	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks
0-20	10YR 3/1	100%					silt loam	
20-24	10YR 4/2	99%	10YR 5/6	1%	С	M	silty clay loam	
				0				
	-							
	-	-		-	_			
	-				_	-		
						-		
				-				
					_			
				0.10.			21	I - Dona Linia - Manhantain
**		n, RM=Reduce	ed Matrix, MS=Masked	Sand Grains.				L=Pore Lining, M=Matrix
ydric Soil Ind							Indicators for Problema	•
Histosol (/	A1)			(S7) (LRR R, I				(LRR K, L, MLRA 149B)
Histic Epi	pedon (A2)		Polyvalue Be	low Surface (S	8) (LRR R,	MLRA 149	B Coast Prairie Red	ox (A16) (LRR K, L, R)
Black Hist	tic (A3)		Thin Dark Su	rface (S9) (LRI	R R, MLRA	149B)	5 cm Mucky Peat	or Peat (S3) (LRR K, L, R)
Hydrogen	Sulfide (A4)		Loamy Mucky	Mineral (F1) (LRR K, L)		Dark Surface (S7)	(LRR K, L, M)
Stratified	Layers (A5)		Loamy Gleye	d Matrix (F2)			Polyvalue Below S	Surface (S8) (LRR K, L)
	Below Dark Surface (A	A11)	Depleted Mat				Thin Dark Surface	
	k Surface (A12)	,	Redox Dark S				Iron-Manganese M	Masses (F12) (LRR K, L, R)
	icky Mineral (S1)			k Surface (F7)			Piedmont Floodpla	ain Soils (F19) (MLRA 149B)
	eyed Matrix (S4)		Redox Depre				Red Parent Materi	, ,,
Sandy Re			Redox Beple	3510115 (1 0)			Very Shallow Dark	
_							Mesic Spodic (TA6	·
	Matrix (S6)						Other (Explain in F	•
indicators of n	yaropnytic vegetation	and wetland n	ydrology must be pres	ent, unless dis	turbed or pr	oblematic	— Other (Explain iii i	(emarks)
Type: nor	er (if observed): ne							
-							Is Hydric Soil Present	? Yes No X
Depth (incl	hes): n/a	all Indicator	Calla ara da.		_		Is Hydric Soil Present	? Yes No _X
Depth (incl		oil indicator.	Soils are dry.				Is Hydric Soil Present	? Yes <u>No X</u>
Depth (incl	hes): n/a	oil indicator.	Soils are dry.				Is Hydric Soil Present	? Yes <u>No X</u>
Depth (incl	hes): n/a	oil indicator.	Soils are dry.				Is Hydric Soil Present	? Yes <u>No X</u>
Depth (incl	hes): n/a	oil indicator.	Soils are dry.				Is Hydric Soil Present	? Yes <u>No X</u>
Depth (incl emarks: Does	nes): <u>n/a</u> s not meet a hydric s	oil indicator.	Soils are dry.				Is Hydric Soil Present	? Yes <u>No X</u>
Depth (inclemarks: Does	hes): <u>n/a</u> s not meet a hydric s	oil indicator.	Soils are dry.					
Depth (inclemarks: Does	hes): n/a s not meet a hydric s Y ogy Indicators:						Secondary Indicate	ors (minimum of two required)
Depth (inclemarks: Doese YDROLOG etland Hydroletimary Indicate	rhes): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is		ck all that apply)				Secondary Indicate Surface So	ors (minimum of two required) il Cracks (B6)
Depth (incl emarks: Does YDROLOG etland Hydrol imary Indicato Surface W	Y ogy Indicators: ors (minimum of one is later (A1)		ck all that apply) Water-Stain	ed Leaves (B9)		Secondary Indicate Surface So Drainage P	ors (minimum of two required) il Cracks (B6) atterns (B10)
Depth (inclemarks: Doese YDROLOG etland Hydrologimary Indicate Surface W High Water	rhes): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is l/ater (A1) er Table (A2)		ck all that apply) Water-Stain Aquatic Fau	na (B13))		Secondary Indicate Surface So Drainage P Moss Trim	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16)
Pepth (inclemarks: Does YDROLOG etland Hydroletimary Indicate Surface W High Wate Saturation	res): n/a s not meet a hydric s Y ogy Indicators: ors (minimum of one is //ater (A1) or Table (A2)		ck all that apply) Water-Stain Aquatic Fau Marl Deposi	na (B13) ts (B15)			Secondary Indicate Surface So Drainage P Moss Trim Dry-Seasor	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2)
Pepth (inclemarks: Does YDROLOG etland Hydrologimary Indicate Surface Wigh Wate Saturation Water Mai	Y ogy Indicators: ors (minimum of one is //ater (A1) er Table (A2) (K3) rks (B1)		ck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S	na (B13) ts (B15) ulfide Odor (C1)	es (C3)	Secondary Indicate Surface So Drainage P Moss Trim Dry-Seasor Crayfish Bu	ors (minimum of two required) il Cracks (B6) atterns (B10) Lines (B16) n Water Table (C2)
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New Notion Time M. Mywrs PW3 & Hearler D. Patul, PW5 Section, Township, Range SSE 14 Sec 17, T8N, R19E Section Township, Range SSE 14 Sec 17, T8N, R19E Section Township, Range SSE 14 Sec 17, T8N, R19E Section Township, Range SSE 14 Sec 17, T8N, R19E Section Township, Range SSE 14 Sec 17, T8N, R19E Section Township, Range SSE 14 Sec 17, T8N, R19E SSE 18 Sec 18 Section Township, Range SSE 14 Sec 17, T8N, R19E SSE 18 Section Township, Range SSE 14 Sec 17, T8N, R19E SSE 18 Sec 18 Section Township, Range SSE 14 Sec 17, T8N, R19E SSE 18 Section Township, Range SSE 14 Sec 17, T8N, R19E SSE 18 Section Township, Range SSE 18 Section Township, Ran	Project/Site:	29.3-Acre Site Southeast of STH 59 &	R CTH X	City/County:	Wau	kesha/Waukesha	Sampling Date:	7/27/15
All control milestops, terrace etc. wetland depression Socializes Sociali	Applicant/Owner:	Kapur & A	Associates, Inc	с.		State: WI_	Sampling Point:	30
Total Continue	nvestigator(s):	Tina M. Myers, PWS & Heather D. P.	atti, PWS	Section	, Township	, Range:	SE 1/4 Sec 17,	T6N, R19E
College Coll	_andform (hillslope	, terrace, etc.): wetlan	d depression		Local	relief (concave, convex	k, none):	concave
residenticity-docogle conditions on the site bytecal for this time of year? Yes X No Uf needed, explain any sensors in Remarks.) re Vegetation N Soil N or Hydrology N neaturally problematic? (if needed, explain any sensors in Remarks.) **UMMARY OF FINDINGS - Attach site map showing sampling point locations, transacts, important features, etc. **Hydrophytic Vegetation Present? Yes X No	Slope (%): 0	% Lat:		Long			Datum:	
re Vegetation N Soil N or Hydrology N anturally problematics? We deptation N Soil N or Hydrology N anturally problematics? We vegetation Present? Yes X No	Soil Map Unit Name	e: Brookston silt loam, 0-3% slopes	(BsA)			WWI class	sification: S3/E2K	
March Marc	Are climatic/hydrolo	ogic conditions on the site typical for this	time of year?	Yes X	No	(If needed, explain an	y answers in Remar	ks)
March Marc	Are Vegetation	N Soil N or Hydrology N	significantly of	disturbed?		Are "Normal Circums	tances" present?	Yes X No
Hydrochydo Vegetation Present? Hydrochydo Vegetation Present? Hydrochydo Vegetation Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Westand Tyrotogy Present? Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Westand Tyrotogy Present? Yes X No Westand Tyrotogy Present? Y	Are Vegetation					(If needed, explain an	y answers in Remar	rks.)
Is the Sampled Area within a Wetland? Yes X No			_					
	SUMMARY OF F	INDINGS - Attach site map showing	g sampling p	oint locations	s, transec	ts, important feature	etc.	
	Hydrophytic Veget	tation Present? Yes X I	Νο					
Western Septembry Yes X No If yes, optional Western Size C: W-3			_				Y No	
Semantics (Explain atternative procedures here or in a separate report.) Shrub carr community. The hydroperiod is intermittent here. VEGETATION - Use scientific names of plants.				ª				W-3
VEGETATION - Use scientific names of plants. Cover								
Absolute % Dominant Cover Spacies	Remarks: (Explain	n alternative procedures here or in a sepa	arate report.) S	hrub carr com	munity. T	he hydroperiod is inte	rmittent here.	
Absolute % Dominant Cover Spacies								
Absolute % Dominant Cover Spacies								
Absolute % Dominant Cover Spacies								
Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)	VEGETATION -	Use scientific names of plants.						
Tree Stratum (Plot size: equiv to 30' radius) Cover Species Slabus Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)			Absolute %	Dominant	Indicator	Dominance Test wor	ksheet:	
Are OBL, FACW, or FAC: 4 (A) Are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/B) Pervalence Index worksheet: Prevalence Index worksheet: Across All Strata: 7 (A) Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 15' radius) Across All Strata: 5 (B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Pervalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Prevalence Index worksheet: Total % Cover of Multiply by Factor of Stratum (Plot size: equiv to 5' radius) Across All Strata: 5 (B) Prevalence Index worksheet: Total % Cover of Multiply by Factor of Prevalence Index worksheet: Total % Cover of Multiply by Factor of Multiply by Factor of Prevalence Index worksheet: Total % Cover of Multiply by Factor of Prevalence Index worksheet: Total % Cover of Multiply by Factor of Prevalence Index worksheet: Total % Cover of Multiply by Factor of Prevalence Index worksheet: Total % Cover of Multiply by Factor of Prevalence Index worksheet: Total % Cover of Multiply by Are Acros sali stratal * Total Kowor	Tree Stratum (Plot	t size; equiv to 30' radius)				Number of Dominant	t Species That	
Total Number of Dominant Species Across All Strata: Total Number of Dominant Species Across All Strata: Total Stratum (Plot size: equiv to 15' radius) Sapling/Shrub Stratum (Plot size: equiv to 15' radius) 1. Satix discolor 80% Y FACW Cornus amomum 60% Y FACW FACW peries FACW species 140% FACW FACW peries 140% FACW	1_							4 (A)
Total Number of Dominant Species S (B)	2.						-	
Across All Strata: 5 (B) Across All Strata: 5 (B) Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: OBL, FACW, or FAC: 80% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: Total % Cover of: Multipl	3.					Total Number of Don	minant Species	
Percent of Dominant Species That Are							ппан орсоюз	5 (B)
Percent of Dominant Species That Are OBL, FACW, or FAC: 80% (A/B)							_	• • • • • • • • • • • • • • • • • • • •
Sapling/Shrub Stratum (Plot size: equiv to 15' radius)					-	Douglas of Daminant	Cassias That Ara	
Sapling/Shrub Stratum (Plot size: equiv to 15' radius) 1. Salix discolor 80%	7							80% (A/B)
Sapling/Shrub Stratum (Plot size: equiv to 15' radius) Salix discolor	*		0%	= Total Cover		. 052,171011, 011710	·	(,,
	Capling/Chruh Ctra	otum (Plot size: equiv to 15' radius)		- Total Cover		Prevalence Index wo	rksheet	
Circaea canadensis			900/	V	EACM			Aultiply by:
FACW species X 2 =	-							
FAC species	-	num	60%		FACVV			
FACU species	3,		-			1		
Total Cover 140% = Total Cover 140% Total	1							
Herb Stratum (Plot size: equiv to 5' radius) Herb Stratum (Plot size: equiv to 30'	o,				-			
Hydrophytic Vegetation Indicators: Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation Rapid Test	/-		4400/					(b)
1. Circaea canadensis 40% Y FACU Solidago gigantea 20% Y FACW X Dominance Test is >50% Prevalence Index is ≤3.0° Prevalence Index is ≤5.0° Prevalen			140%	= Total Cover				
2 Solidago gigantea 2 20% Y FAC Prevalence Index is \$50% 3 Geum canadense 2 20% Y FAC Prevalence Index is \$3.0¹ A Carex bebbii 5% N OBL Remarks or on a separate sheet) 5 Juncus canadensis 5 N OBL Remarks or on a separate sheet) 6 Pastinaca sativa 3 N FAC 8 Symphyotrichum puniceum 3 N OBL Symphyotrichum puniceum 9 OBL Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No		·				1		
3. Geum canadense 20% Y FAC Acare bebbii 5	-							1
4. Carex bebbii 5% N OBL Juncus canadensis 5% N OBL Juncus canadensis 5% N OBL Remarks or on a separate sheet) 5. Juncus canadensis 5% N OBL Remarks or on a separate sheet) 6. Pastinaca sativa 3% N UPL Problematic Hydrophytic Vegetation¹ (Explain) 7. Rhamnus cathartica 3% N OBL Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 9. Definitions of Vegetation Strata: 11.			-			_		
5. Juncus canadensis 5. NOBL Problematic Hydrophytic Vegetation (Explain) 7. Rhamnus cathartica 8. Symphyotrichum puniceum 9. OBL 11. OEIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	-	ense				Prevalence Index	IS ≤3.0'	
Problematic Hydrophytic Vegetation (Explain)	-							supporting data in
7. Rhamnus cathartica 8. Symphyotrichum puniceum 9.	-							(E (.).)
8. Symphyotrichum puniceum 9. OBL 11. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3,28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall. Woody vines - All woody vines greater than 3,28 ft in height. 14. Supply the description of the present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3,28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall. Woody vines - All woody vines greater than 3,28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	*					Problematic Hydro	opnytic vegetation'	(Explain)
unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	7. Rhamnus catl	hartica				the diseases of budgies	aail aad watlaad byd	tralagu must ba procent
Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3,28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall. Woody vines - All woody vines greater than 3,28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	8. Symphyotrich	num puniceum	3%	N	OBL			rology must be present,
Tree - Woody plants 3 in. (7,6cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	9							
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Sapling/shrub - Woody plants less than 3 in DBH and greater than 3.28 (1m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	11							e in diameter at breast
Woody Vine Stratum (Plot size: equiv to 30' radius) 1.	12							
Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall. Woody vines - All woody vines greater than 3 28 ft in height. Is Hydrophytic Vegetation Present? Yes X No			99%	= Total Cover		' "	dy plants less than 3	3 In_DBH and greater than
woody plants less than 3 28 ft tall. Woody vines - All woody vines greater than 3 28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	Woody Vine Stratu	um (Plot size: equiv to 30' radius)						
Woody vines - All woody vines greater than 3,28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	1							s, regardless of size, and
Woody vines - All woody vines greater than 3,28 ft in height. Is Hydrophytic Vegetation Present? Yes X No	2							
S Hydrophytic Vegetation S Hydrophytic Vegetation Yes X No	3.					Woody vines - All wo	ody vines greater th	an 3,28 ft in height
	4.					lo Undenshi da Va	otation	
			00/	= Total Cover			station	Yes X No
кетагкs: (Include pnoto numbers nere or on a separate sneet.) Data point is located within a shrub carr along outer perimer of wetland.					ML1 ·			103 A NO
	Remarks: (Include	e pnoto numbers here or on a separate s	neet.) Data poi	Int is located w	vitnin a shi	rup carr along outer p	erimer of wetland.	

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<u>~</u>	1	

Profile Description: (Describe to the depth ne				Redo	x Features				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-13	10YR 2/1	100%	Color (Illolot)	- /-	1,700		silt loam	712.112	
13-24	10YR 4/1	95%	2.5Y 5/4	5%	С	M	silty clay loam		
10 21	101111		2.01 0.1						
	-								
					-	-			
					-	_			
	-								
	-				-				
Type: C=Co	ncentration, D=Deplet	on, RM≃Reduc	ed Matrix, MS=Masked	Sand Grains.			²Location: PL	.=Pore Lining, M=Matrix.	
lydric Soil Ir	ndicators:						Indicators for Problema	tic Hydric Soils ³ :	
Histosol	I (A1)		Dark Surface	(S7) (LRR R,	MLRA 1491	3)	2 cm Muck (A10) (LRR K, L, MLRA 149B)	
Histic E	pipedon (A2)		Polyvalue Be	low Surface (S	88) (LRR R,	MLRA 149	B Coast Prairie Redo	x (A16) (LRR K, L, R)	
Black H	istic (A3)		Thin Dark Su	rface (S9) (LR	R R, MLRA	149B)	5 cm Mucky Peat of	or Peat (S3) (LRR K, L, R)	
Hydroge	en Sulfide (A4)			y Mineral (F1)	(LRR K, L)		Dark Surface (S7)	(LRR K, L, M)	
Stratifie	d Layers (A5)		Loamy Gleye	d Matrix (F2)				urface (S8) (LRR K, L)	
Deplete	d Below Dark Surface	(A11)	Depleted Mat	trix (F3)			Thin Dark Surface		
X Thick Da	ark Surface (A12)		Redox Dark S	Surface (F6)				asses (F12) (LRR K, L, R)	
Sandy N	Mucky Mineral (S1)		Depleted Dar	k Surface (F7)				in Soils (F19) (MLRA 149B)	
Sandy C	Gleyed Matrix (S4)		Redox Depre	ssions (F8)			Red Parent Materia	, ,	
	Redox (S5)						Very Shallow Dark		
Stripped	d Matrix (S6)						Mesic Spodic (TA6)		
Sladiactors of	f budrophutia vagatatia								
Indicators of	i nydropnytic vegetatio	n and wetland	hydrology must be pres	ent, unless dis	turbed or p	roblematic.	Other (Explain in R	emarks)	
	ayer (if observed):	n and wetland	nydrology must be pres	ent, unless dis	turbed or p	roblematic	Other (Explain in R	emarks)	
	ayer (if observed):	n and wetland	nydrology must be pres	ent, unless dis	turbed or p	roblematic	Other (Explain in R	emarks)	
Restrictive La	ayer (if observed):	n and wetland	nydrology must be pres	ent, unless dis	turbed or p	roblematic	Other (Explain in R		
Restrictive La Type: na Depth (in	ayer (if observed):		nydrology must be pres	ent, unless dis	turbed or pr	roblematic	_		
Restrictive La Type: na Depth (in	ayer (if observed): one nches): n/a		nydrology must be pres	ent, unless dis	turbed or p	roblematic	_		
Restrictive La Type: na Depth (in	ayer (if observed): one nches): n/a		nydrology must be pres	ent, unless dis	turbed or p	roblematic	_		
Restrictive La Type: na Depth (in	ayer (if observed): one nches): n/a		nydrology must be pres	ent, unless dis	turbed or pi	roblematic	_		
Restrictive La Type: <u>n</u> Depth (ir Remarks: Hy	ayer (if observed): one onches): <u>n/a</u> dric soil criterion is i		nydrology must be pres	ent, unless dis	sturbed or pr	roblematic	_		
Restrictive La Type: <u>n</u> Depth (ir Remarks: Hy	ayer (if observed): one onches): n/a dric soil criterion is i		nydrology must be pres	ent, unless dis	turbed or pi	roblematic	Is Hydric Soil Present	? Yes <u>X</u> No	
Restrictive La Type: n Depth (ir Remarks: Hy	ayer (if observed): one onches): n/a dric soil criterion is i	net.		ent, unless dis	turbed or pi	roblematic	Is Hydric Soil Present	Yes X No X	
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Restrictive La Type: n Type: n Depth (ir Remarks: Hy HYDROLOG Vetland Hydr Surface	ayer (if observed): one onches): n/a dric soil criterion is i	net.	eck all that apply) Water-Stain	ed Leaves (BS		roblematic	Secondary Indicate Surface Soi *X Soil Present	PYes X No Pers (minimum of two required) Cracks (B6) atterns (B10)	
Restrictive La Type: n Depth (ir Remarks: Hy HYDROLOG Vetland Hydre Primary Indica Surface High Wa	ayer (if observed): one onches): n/a dric soil criterion is i	net.	eck all that apply) Water-Stain Aquatic Fau	ed Leaves (B9 na (B13)		roblematic	Secondary Indicate Surface Soi *X Drainage Pa	ors (minimum of two required) I Cracks (B6) atterns (B10) Lines (B16)	
Restrictive La Type: n Depth (ir Remarks: Hy HYDROLO Vetland Hydre Primary Indica Surface High Wa Saturatio	ayer (if observed): one onches): n/a dric soil criterion is i	net.	eck all that apply) Water-Stain Aquatic Fau Marl Deposi	ed Leaves (B9 na (B13)	9)	roblematic	Secondary Indicate Surface Soi *X Drainage Pa	ors (minimum of two required) I Cracks (B6) atterns (B10) Lines (B16) Water Table (C2)	
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Restrictive La Type: n Depth (ir Remarks: Hy HYDROLO Vetland Hydre Primary Indica Surface High Wa Saturatic Water M Sedimer Drift Dep	ayer (if observed): one onches): n/a dric soil criterion is i	net.	eck all that apply) Water-Stain Aquatic Fau Marl Deposi Hydrogen S Oxidized Rh Presence of	ed Leaves (BS na (B13) ts (B15) ulfide Odor (C- izospheres on Reduced Iron	o) 1) Living Roo (C4)	ts (C3)	Secondary Indicate Surface Soi *X Drainage Pa Moss Trim I Dry-Season Crayfish Bu Saturation \ Stunted or S	Pres X No Pres (minimum of two required) Cracks (B6) atterns (B10) Lines (B16) Water Table (C2) Trows (C8) Visible on Aerial Imagery (C9) Stressed Plants (D1)	
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Appendix 5:

NR 151 Wetland Susceptibility Table

Wetland Category for Stormwater Permitting *								
Highly Moderately								
Susceptible	Susceptible	Susceptible						
		Х						
	X							
	X							
	X							
	X							
	Highly	Highly Susceptible X X						

Less Susceptible: Dominated by 90% or greater invasive species

Moderately Susceptible: Sedge meadows, fens, bogs, forested wetlands, fresh wet meadows, shallow/deep marshes, various swamps

Highly Susceptible: Trout streams, threatened and endangered species, fish and wildlife refuges, calcareous fens, wild and scenic rivers

^{*} These designations apply to any project requiring NR 151 stormwater permitting and are based on wetland delineation field work and the professional opinion of R.A. Smith National, Inc. Final determination of wetland susceptibilty rests with the WDNR. Some of the characteristics of a Highly Susceptible wetland may not be apparent to RASN due to confidential data or data beyond the scope of this delineation (i.e. rare species, high quality trout stream etc). Navigable waterways may also be subject to NR 151 protective area standards.