WETLAND DELINEATION REPORT

NORTH MCGAW PARK NEIGHBORHOOD
CITY OF FITCHBURG, DANE COUNTY, WISCONSIN

August 14, 2008

Prepared For:

City of Fitchburg
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Prepared By:

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NRC Project #: 008-0106-01

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TABLE OF CONTENTS

INTRODUCTION

Natural Resources Consulting, Inc. (NRC) performed a wetland determination and delineation of the North McGaw Park Neighborhood property (the "Property") on behalf of Teska Associates, Inc. The Property is approximately 710 acres in size and located in Sections 14 & 15, Township 6 North, Range 9 East, City of Fitchburg, Dane County, Wisconsin. Specifically, the Property is located southwest of the intersection of USH 14 and Lacy Road (Figure 1).

The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Property. The wetland delineation was completed by Jeff Kraemer and Stacy J. Steinke of NRC and Eric Heggelund of J.D. Knowles and Associates, Inc. on July 2, 2008. Three wetland areas were identified on the Property.

Wetlands 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 United States Army Corps of Engineers (USACE). Additionally, the Wisconsin Department of Natural Resources (WDNR) has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and Wisconsin Administrative Code NR 103. NRC recommends this report be submitted to the USACE for final jurisdictional review and concurrence.

The individual who was the lead field delineator and report author of this wetland delineation has been assured through the Wisconsin Department of Natural Resources - Wetland Delineation Professional Assurance Program. The goal of this program is to provide a high level of certainty about wetland boundaries for project planning, and save time in state review of wetland boundaries, while enhancing protection for Wisconsin's wetlands through more accurate identification of wetland boundaries overall. Therefore, concurrence from the WDNR for this wetland delineation is not required for purposes of waterway and wetland permit applications, shoreland-wetland zoning, and/or other state-mandated local wetland programs. Wetland delineations conducted by an assured delineator does not eliminate the need to obtain concurrence and jurisdiction determinations from the USACE. This is a key component of the program and benefit to the Client. However, assurance does not change the need for or decisions about wetland fill permits from the appropriate regulatory agencies. NRC believes this program provides an important tool to streamline the approval process at the state and local levels. NRC cautions the Client that with the limited review and approval necessary from regulatory agencies and with the infancy of the assurance program, no improvements, filling, and/or construction activities should take place until the Client has fully evaluated the risk.

METHODS

Wetland determinations were based on the criteria and methods outlined in the *United States Corps of Engineers Wetlands Delineation Manual,* Technical Report Y-87-1 (1987) and subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), and the *Basic Guide to Wisconsin's Wetlands and their Boundaries* (Wisconsin Department of Administration Coastal Management Program 1995).

The wetland determination involved the use of available resources to assist in the assessment such as USGS topographic maps, Natural Resources Conservation Service (NRCS) soil survey, Wisconsin Wetland Inventory (WWI) mapping and aerial photography.

On-site wetland determinations were made using the three criteria (vegetation, soil and hydrology) and technical approach defined in the USACE 1987 Manual. According to procedures described in the 1987 Manual, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology (e.g., inundated or saturated soils) are considered wetlands.

The uppermost wetland boundary was identified with consecutively numbered delineation flagging. The wetland boundary was surveyed with a Global Positioning System (GPS) capable of sub-meter accuracy and mapped using Geographical Information System (GIS) software. Subject to weathering, the flagging will remain in the field for use during a USACE / WDNR site review and as a guide during construction.

RESULTS

Site Description

The Property is mostly comprised of active agricultural fields with some residential housing, a large grain operation, upland forests, and the three delineated wetlands. Syene Road bisects the Property. The Property generally slopes from the southwest to the norththeast, from topographic highs of approximately 1100 feet msl in the southwestern corner of the Property to topographic lows of approximately 880 feet msl along the un-named tributary (UNT) to Swan Creek in the northeastern corner of the Property. The Property is bordered by agricultural fields to the south; Lacy Road to the north; USH 14 and wetland to the East; and high density residential development to the west.

Soils mapped on the Property by the *NRCS Soil Survey of Dane County* include Dodge silt loam (DnB & DnC2), Dodge and Kidder soils (DoC2), Elburn silt loam (EfB), Griswold loam (GwB & GwC), Kidder loam (KdD2 & KrD2), McHenry silt loam (MdC2), Plano silt loam (PnA & PnB), Radford silt loam (RaA), Ringwood silt loam (RnB & RnC2), Sable silty clay loam (SaA), St. Charles silt loam (ScB & ScC2), Troxel silt loam (TrB), and Virgil silt loam (VrB) (Figure 2). According to the NRCS List of Hydric Soils for Dane County, the Sable series is listed as a hydric soil unit and the Elburn, Radford, Troxel, and Virgil series are listed as containing known hydric soil inclusions. Wetlands identified during the field investigation are located primarily within areas mapped as hydric soils.

The Wisconsin Wetland Inventory (WWI) and Southeastern Wisconsin Regional Planning Commission (SEWRPC) wetland map identifies one wetland area along the southeastern boundary of the Property (Figure 3). The field delineated eastern wetland (W-1) is located within the same vicinity as the wetland identified on the WWI map. The field delineated northern (W-2) and western wetlands (W-3) are not identified on the WWI map.

Wetlands

Three wetlands were identified and delineated within the Property. USACE data sheets were completed for 30 sample points along transects through the wetlands and adjacent uplands and are contained in Appendix A. Photographs of the wetlands and adjacent lands are contained in Appendix B. The wetland boundary and sample point locations are shown on Figure 4. The wetlands are summarized in Table 1 and described in detail in the following sections.

Table 1. Summary of Wetlands Identified within the Property.

Wetland	Wetland Type	Adjacent Surface Waters	Acreage (on-site)
Wetland 1 (W-1)	Wet meadow / Shrub-carr / Floodplain forest / Farmed wetland	Surface water inlet and outlet via an unnamed tributary to Swan Creek.	8.38 acres
Wetland 2 (W-2)	Wet meadow / Shrub-carr / Farmed wetland	Surface water outlet to an upland road side ditch to the west. Roadside ditch does not appear to connect to a waterway.	0.92 acres

Wetland 3 (W-3)	Excavated pond / emergent wetland	No inlets or outlets observed	0.25 acres

Wetland 1 (W-1)

Wetland 1 is comprised of four communities including wet meadow, shrub-carr, floodplain forest, and farmed wetland. The wetland is located adjacent to the southeastern boundary of the Property and appears to continue off-site to the east and south. W-1 is directly connected to an unnamed intermittent tributary that flows through the wetland. The intermittent tributary is likely to be considered a relatively permanent waterway (RPW) and is identified on the 24k hydro layer mapped by USGS (Figure 1). The unnamed RPW associated with W-1 flows from southwest to northeast through the wetland and discharges into Swan Creek approximately 700 feet east of the Property. Swan Creek is designated an Area of Special Natural Resource Interest (ASNRI) by the WDNR. Swan Creek then flows into Lake Waubesa and thus the Yahara River which are also ASNRI waterways. The Yahara ultimately flows into the Rock River, which is a Section 10 Navigable Water of the United States.

Vegetation

Dominant plant species identified at the sample point completed within the wet meadow portion of W-1 consist of reed canary grass (*Phalaris arundinacea*). The shrub-carr portion of W-1 is dominated by sandbar willow (*Salix exigua*) and red osier dogwood (*Cornus stolonifera*). The floodplain forest is dominated by box elder (*Acer negundo*). Other common species identified in the wetland are listed on the data forms contained in Appendix A. The dominant species within the wetland are principally hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

W-1 appears to have a seasonally inundated/saturated hydroperiod within the central portion along the waterway and a seasonally saturated hydroperiod along the outer margins. Inundation and/or saturation within the upper 12 inches along with drift lines and sediment deposits were observed as primary indicators of wetland hydrology at the W-1 sample points. Secondary indicators of wetland hydrology included local soil survey data and the FAC-neutral test. Therefore, the wetland hydrology criterion was met within W-1.

Soils

Soils within the wetland are mapped by the NRCS as Elburn silt loam, Radford silt loam, Sable silty clay loam, and Virgil silt loam (Figure 2). Elburn soils are somewhat poorly drained and developed in glacial outwash with a thick cap of wind-blown loess. A typical Elburn profile consists of silty topsoil horizons overlying silty and clayey subsoil horizons. The Radford series consists of very deep, somewhat poorly drained soils formed in recent silt loam alluvium underlain by buried soils on flood plains. A typical Radford series has silt loam topsoil horizons overlying silt loam subsoil horizons. The Sable series consists of very deep, poorly drained soils formed in loess on nearly level broad summits of moraines and stream terraces. A typical Sable profile has silty clay loam topsoil horizons overlying silty clay loam above silt loam subsoil horizons. Virgil soils are very deep, somewhat poorly drained soils on outwash plains, stream terraces, or till plains formed in loess or other silty material and in the underlying loamy outwash or sandy loam till. A typical Virgil series consists of silt loam over silty clay loam topsoil horizons above a loam subsoil. The soils observed at the majority of sample points were generally

consistent with the Elburn, Sable, or Radford series characteristics. Field indicators of hydric soil identified consisted of NRCS field Indicators A11 – Depleted Below Dark Surface, F3-Depleted Matrix and F6-Redox Dark surface. Therefore, the hydric soil criterion was satisfied within W-1.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from a wet meadow, shrub-carr, floodplain forest, or farmed wetland community to an old field or agricultural field upland community; 2) Transition from inundated and saturated soils within the wetland to lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from poorly drained hydric soils to somewhat poorly drained and moderately well drained non-hydric soils. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

Wetland 2 (W-2)

Wetland 2 is a wet meadow and shrub-carr community with a farmed wetland component located in the north central portion of the Property along a railroad corridor. W-2 drains to the west via a culvert under the railroad tracks to an upland roadside ditch that does not connect to any waterway. W-2 is an isolated wetland.

Vegetation

Dominant plant species identified at the sample point completed within the wet meadow portion of W-2 consist of reed canary grass. Species identified within the farmed wetland portion include duckweed (Lemna sp.), curly dock (*Rumex crispus*), and Lady's thumb (*Polygonum persicaria*) along with drown corn (*Zea mayes*). Although no formal sampling was conducted within the shrub-carr portion of W-2, it appeared that the dominant plant species is gray dogwood (*Cornus racemosa*). Other common species identified in the wetland are listed on the data forms contained in Appendix A. The dominant species within the wetland are principally hydrophytic vegetation (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

W-2 appears to have a seasonally inundated/saturated hydroperiod. The main source of hydrology for W-2 appears to be runoff from the adjacent agricultural field. Inundation was observed as primary indicator of wetland hydrology at the W-2 sample points. Secondary indicators of wetland hydrology included passing the FAC-neutral test. Therefore, the wetland hydrology criterion was met within W-2.

Soils

Soils within the wetland are mapped by the NRCS as Elburn silt loam (Figure 2). The Elburn series is described in detail in the narrative for W-1, above. The soil observed at the sample points was not consistent with characteristics of the mapped series. The field indicators of hydric soil identified consisted of meeting the low chroma criteria set forth in the 1987 Corps Manual and NRCS Field Indicator F6-Redox Dark Surface. Therefore, the hydric soil criterion was satisfied within W-2.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, soils and topography consisting of the following: 1) Transition from a wet meadow, shrub-carr, or farmed wetland community to a mowed railroad right-of-way or an agricultural field upland community; 2) Transition from inundated and saturated soils within the wetland to lack of wetland hydrology indicators within the adjacent upland; and 3) Transition from hydric soils to non-hydric soils. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

Wetland 3 (W-3)

Wetland 3 is an excavated pond surrounded by a narrow emergent community fringe located along the western boundary of the Property. W-3 is an isolated depression with no inlet or outlet, created by excavation. It is not associated with any permanent or intermittent waterway or drainage.

Vegetation

Although no formal sampling was conducted within the narrow and steeply sloping emergent portion of W-2, it appeared that the dominant plant species are hybrid cattail (*Typha x glauca*) and reed canary grass. Duckweed is also present on the pond surface. The dominant plant species within the wetland are hydrophytic (OBL, FACW, and/or FAC) and meet the hydrophytic vegetation criterion.

Hydrology

W-3 appears to have a permanently inundated hydroperiod, with the primarily source of hydrology being overland flow into W-3 from the uplands immediately adjacent. Inundation was observed as primary indicator of wetland hydrology at W-3. Therefore, the wetland hydrology criterion was met within W-3.

Soils

Soils within the wetland are mapped by the NRCS as Troxel silt loam (Figure 2). The Troxel series consists of very deep, well drained soils formed in silty colluvium and in the underlying loamy drift and found in slight depressions on outwash plains, stream terraces, and till plains. A typical Troxel profile has a silt loam topsoil horizon above silty clay loam over stratified loamy sand above silty clay loam subsoil horizons. Soils were not observed within W-3 as the majority of the wetland was permanently inundated and the soils would exhibit a probable aquatic moisture regime. Therefore, the hydric soil criterion was satisfied within W-3.

Wetland Boundary

The wetland boundary was determined based on distinct differences in vegetation, hydrology, and topography consisting of the following: 1) Transition from an emergent community to an old field community; and 2) Transition from inundated and saturated soils within the wetland to lack of wetland hydrology indicators within the adjacent upland. The transition from wetland to upland characteristics generally correlated with a well-defined topographic break.

Uplands

Uplands on the Property consist of active agricultural fields, some residential housing, McGaw park and associated baseball fields, small old field areas, a large grain operation, and upland forests. The majority

of the Property is comprised of agricultural fields. The active agricultural fields are dominated by corn, soybeans (*Glycine max*), and alfalfa (*Medicago sativa*). The old field and forested uplands on the Property are dominated by smooth brome (*Bromus inermis*), Kentucky bluegrass (*Poa pratensis*), wild parsnip (*Pastinaca sativa*), black cherry (*Prunus serotina*), common burdock (*Arctium minus*), and common goldenrod (*Solidago Canadensis*).

One of the upland sample points (P8) was dominated by hydrophytic vegetation and exhibited hydric soils but did not satisfy the hydrology criteria and was located on a steep slope at a much higher elevation than the rest of the wetland. No other sample point was dominated by hydrophytic vegetation.

Most of the soils within the uplands are well drained to somewhat poorly drained map units. Two of the upland sample points (P12 and P18) exhibited hydric soil field indicators, but did not satisfy the vegetation or hydrology criteria.

Other Environmental Considerations

This report is limited to the identification of state and/or federally regulated wetlands within the Property. However, there may be other regulated environmental features within the Property, including but not limited to, historical or archeological features, endangered or threatened species, navigable waters and/or floodplains, etc. Federal, state, and local units of government and regional planning organizations may have regulatory authority to control or restrict land uses within or in close proximity to these features. NRC can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

Specifically, in the state of Wisconsin, Wis. Adm. Code NR 151.12 requires that a "protective area" or buffer be determined from the top of the channel of lakes, streams and rivers, or at the delineated boundary of wetlands. In accordance with NR 151.12, the width of the "protective buffer" for less susceptible wetlands are determined by using 10% of the average wetland width, no less than 10 feet or more than 30 feet. Lakes, perennial and intermittent streams, and highly susceptible wetlands and wetlands in areas of special natural resource interest may require buffers of 50 and 75 feet, respectively. W-1 is hydrologically connected to an ASNRI waterway contains a moderately diverse assemblage of species. W-2, although primarily containing lower quality plant species, does not meet the less susceptible wetland definition. W-3, however, is an excavated pond with no inlet or outlet, and is almost totally dominated by invasive plant species, meeting the less susceptible wetland definition. Therefore, based on the "protective buffer" standards provided by NR 151.12, it is NRC's professional opinion that the wetland buffers from the boundaries of W-1 and W-2 would be 75 and 50 feet, respectively, while the buffer from the wetland boundary of W-3 would be 10 to 30 feet. However, the jurisdictional authority on wetland buffers rests with the WDNR. The local unit of government and/or regional planning organization may have more restrictive buffers from wetlands than that imposed under NR 151.

CONCLUSION

NRC performed a wetland determination and delineation at the Sagan Property on behalf of North McGaw Park Neighborhood property (the "Property") on behalf of Teska Associates, Inc. The Property is located in Sections 14 & 15, Township 6 North, Range 9 East, City of Fitchburg, Dane County, Wisconsin. The purpose and objective of the wetland determination and delineation was to identify the extent and spatial arrangement of wetlands within the Property.

Three wetlands were identified and delineated on the Property in accordance with state and federal guidelines. Wetlands are composed of wet meadow, shrub-carr, floodplain forest, emergent, and farmed wetland plant communities. Adjacent uplands are composed of agricultural lands, ruderal old field vegetation, residential developments, McGaw park, and a large grain operation. A combined total of approximately 9.55 acres of wetlands were identified within the 710 acre Property. Wetlands and their boundaries were flagged, surveyed and mapped.

The USACE has regulatory authority over waters of the U.S. including adjacent wetlands, and the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Chapter 30 Wisconsin State Statutes, Act 6, and NR 103 Wisconsin Administrative Code. Local jurisdictions may have additional regulatory authority through shoreland or wetland zoning ordinances.

Prior to beginning work at this site or disturbing or altering wetlands, waterways, or adjacent lands in any way, NRC recommends that the owner obtain the necessary permits or other agency regulatory review and concurrence with regard to the proposed work to comply with applicable regulations. NRC can assist with identification and/or assessment of additional regulated resources at your request, to the extent that the work is within our range of expertise.

The information provided by NRC regarding wetland boundaries is a scientific-based analysis of the wetland and upland conditions present on the site at the time of the fieldwork. The delineation was performed by experienced and qualified professionals using standard practices and sound professional judgment. The ultimate decision on wetland boundaries rests with the USACE and, in some cases, the WDNR or a local unit of government. As a result, there may be adjustments to boundaries based upon review by a regulatory agency. An agency determination can vary from time to time depending on various factors including, but not limited to recent precipitation patterns and the season of the year. In addition, the physical characteristics of the site can change over time, depending on the weather, vegetation patterns, drainage activities on adjacent parcels, or other events. Any of these factors can change the nature and extent of wetlands on the site.

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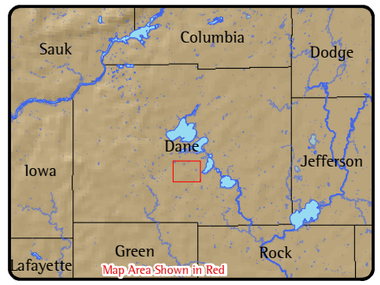
FIGURES

Figure 1. Project Location and Topography

City of Fitchburg, North McGaw Park Neighborhood Plan



Location

S14 and 15, T6N, R9E
Dane County, WI

0 1,000 2,000 Feet

Project Information

Project Number : 008-0106-01
Modified June 16, 2008

Legend

Approximate Project Area

Data Sources include USGS 7.5' Madison West (1983) and Oregon (1982) Topographic Quadrangles

NRC Natural Resources Consulting, Inc.

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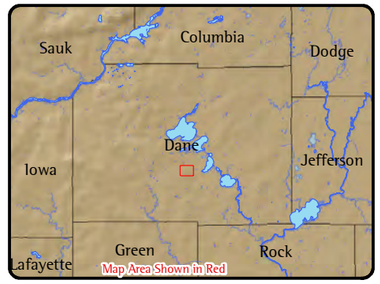
phone: 608-839-1998
fax: 608-839-1995

Figure 2. NRCS Soil Survey Data

City of Fitchburg, North McGaw Park Neighborhood Plan



Location

S14 and 15, T6N, R9E
Dane County, WI

0 500 1,000 Feet

Project Information

Project Number : 008-0106-01
Modified August 14, 2008

Legend

- Approximate Project Area
- Section Lines

NRCS Soil Survey Data

- Hydric Soils
- Poss. Hydric Inclusions
- Non-Hydric Soils

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- 24K Hydro Layer

Data Sources include NRCS Soil Data, WDNR 24K Hydrography, 2007 USGS Urban Orthophotography

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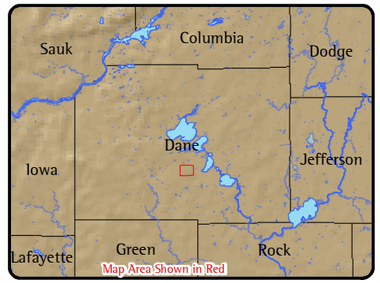
Figure 3. Wisconsin Wetlands Inventory Data (WWI)

City of Fitchburg, North McGaw Park Neighborhood Plan



Location

S14 and 15, T6N, R9E
Dane County, WI

0 500 1,000 Feet

Project Information

Project Number : 008-0106-01
Modified June 16, 2008

Legend

- Approximate Project Area
- WWI
- Section Lines

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- 24K Hydro Layer

Data Sources include WDNR, USFWS, USGS, WDOA, & WDOT.
Orthophotography: 2007

NRC Natural Resources Consulting, Inc.

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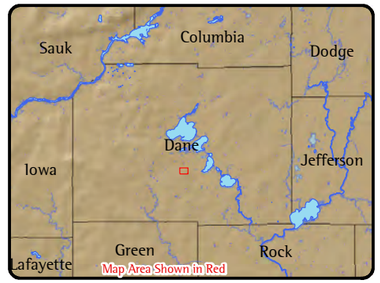
Figure 4. Field Delineated Wetlands

City of Fitchburg, North McGaw Park Neighborhood Plan



Location

S14 and 15, T6N, R9E
Dane County, WI

0 300 600 Feet

Project Information

Project Number : 008-0106-01
Modified August 15, 2008

Legend

- Approximate Project Area
- Sample Points
- Wetland Delineation Boundary
- Field Delineated Wetlands
- No Access
- Section Lines

DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- 24K Hydro Layer

Data Sources include WDNR 24K Hydrography, 2007 USGS Urban Orthophotography

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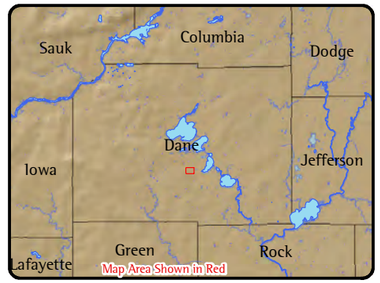
The information presented in this map document is advisory and is intended for reference purposes only.

Figure 4. Field Delineated Wetlands

City of Fitchburg, North McGaw Park Neighborhood Plan



Location

S14 and 15, T6N, R9E
Dane County, WI

0 300 600 Feet

Project Information

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Legend

- Approximate Project Area
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DNR 24k Hydrography

- Perennial Stream
- Intermittent Stream
- 24K Hydro Layer

Data Sources include WDNR 24K Hydrography, 2007 USGS Urban Orthophotography

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APPENDIX A

US ARMY CORPS OF ENGINEERS DATA SHEETS

NRC Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **10**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **5**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Bromus inermis*	Grass,Smooth Brome	100	UPL(NI)
Shrub				
X	*Rhamnus cathartica*	Buckthorn,Common	15	FACU
X	*Cornus racemosa*	Dogwood,Grey	5	FACW-
X	*Rubus occidentalis*	Black-Cap	5	UPL(NI)
Tree				
X	*Acer negundo*	Box-Elder	30	FACW-
X	*Prunus serotina*	Cherry,Black	10	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **33**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 100% (50% = 50 / 20% = 20) S: 25% (50% = 12.5 / 20% = 5) T: 40% (50% = 20 / 20% = 8)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-17	1	10YR 3/2				Silt Loam
17-20	2	10YR 4/4				Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **11**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **5**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+
Shrub				
X	*Lonicera x bella*	Honeysuckle	15	UPL(NI)
X	*Vitis riparia*	Grape,River-Bank	5	FACW-
Tree				
	Prunus serotina	Cherry,Black	5	FACU
X	*Acer negundo*	Box-Elder	25	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **75**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 100% (50% = 50 / 20% = 20) S: 20% (50 % = 10 / 20% = 4) T: 30% (50 % = 15 / 20% = 6)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **10**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16	1	10YR 3/1	10YR 4/6	common	prominent	Silty Clay Loam
16-18	2	GLEY1 2.5/N				Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 Redox Dark Surface
Hydric Inclusions: No Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **12**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **6**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Cirsium arvense	Thistle,Creeping	1	FACU
X	*Bromus inermis*	Grass,Smooth Brome	100	UPL(NI)

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 101% (50% = 50.5 /20% = 20.2)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 3/2				Silty Clay Loam
10-18	2	GLEY1 2.5/N				Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

NRC
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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **13**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **6**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+

% Species that are OBL, FACW, or FAC (except FAC-): **100**

NOTE: Species in capital letters denote non-native species.

Remarks

H: 100% (50% = 50 / 20% = 20)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **1**
- Depth to Free Water in Pit(in.): **N/A**
- Depth to Saturated Soils(in.): **N/A**

Primary Wetland Hydrology Indicators
- [**X**] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-12	1	10YR 3/1	10YR 5/6	many	prominent	Silty Clay Loam
12-18	2	10YR 4/2	10YR 5/6	many	prominent	Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 Redox Dark Surface
Hydric Inclusions: No Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present

[**Yes**] This Data Point is a Wetland

Remarks

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **14**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upl. Ag. Field**
Station ID: **7**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
X				

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

Remarks

Active Agricultural Field.
Planted Vegetation, Zea mayes, not considered.

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Perched water table - likely a result of recent heavy rains.

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-8	1	10YR 2/1				Silty Clay Loam
8-18	2	10YR 4/2				Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

Sample point approx. 6" higher in elevation than the wetland line.

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **15**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wtld. Ag. Field**
Station ID: **7**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	1	FACW+
X	*Polygonum persicaria*	Thumb,Lady'S	2	FACW

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks
Agricultural Field.
Field not planted (likely because of recent heavy rains).
H: 3% (50% = 1.5 / 20% = 0.06)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [**X**] Local soil survey data
- [**X**] FAC-Neutral test
- [**X**] Other (explain in remarks)

Remarks
Other: Evidence of Ponding.

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 2/1				Silty Clay Loam
10-14	2	10YR 4/2	10YR 4/1	common	faint	Silty Clay
14-30	3	10YR 4/2	10YR 5/6	common	prominent	Silty Clay
			10YR 4/1	common	faint	

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [**X**] Listed on Local Hydric Soils List
- [**X**] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: A11 Depleted Below Dark Surface
Hydric Inclusions: Wacousta - Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **16**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upl. Ag. Field**
Station ID: **7**
Plot ID: C

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
X				

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

Remarks

Active Agricultural Field.
Planted Vegetation, Zea mayes, not considered.

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Ringwood**
Taxonomy: **Typic Argiudolls**
Drainage Class: **Well Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 3/2				Silty Clay Loam
10-18	2	10YR 2/1				Silty Clay Loam
18-22	3	10YR 4/2				Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: No Match
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **17**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wtld. Ag. Field**
Station ID: **7**
Plot ID: D

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
X				

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

Remarks

Agricultural Field.
Field not planted (likely because of recent heavy rains).

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [**X**] Local soil survey data
- [ ] FAC-Neutral test
- [**X**] Other (explain in remarks)

Remarks

Other: Evidence of Ponding.

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 2/1	10YR 4/6	common	prominent	Silty Clay Loam
10-18	2	10YR 4/2	10YR 4/6	many	prominent	Silty Clay
			10YR 4/1	common	faint	

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [**X**] Listed on Local Hydric Soils List
- [**X**] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix
Hydric Inclusions: Wacousta - Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present

[**Yes**] This Data Point is a Wetland

Remarks

NRC Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **18**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland Swale**
Station ID: **8**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Taraxacum officinale	Dandelion,Common	10	FACU
	Festuca rubra	Fescue,Red	10	FAC-
	Phleum pratense	Timothy	10	FACU
	Cirsium arvense	Thistle,Creeping	5	FACU
X	*Poa pratensis*	Bluegrass,Kentucky	90	FAC-

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 125% (50% = 62.5 / 20% = 25)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks
Perched water table - likely a result of recent heavy rains.

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-12	1	10YR 3/1				Silty Clay Loam
12-18	2	10YR 4/1	10YR 5/6	many	prominent	Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: A11 Depleted Below Dark Surface
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **19**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **8**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	90	FACW+
Shrub				
X	*Rhamnus cathartica*	Buckthorn,Common	5	FACU
Tree				
X	*Acer negundo*	Box-Elder	5	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **66**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 90% (50% = 45 /20% = 18) S: 5% (50% = 2.5 / 20% = 1) T: 5% (50% = 2.5 / 20% = 1)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-18	1	10YR 4/1	10YR 5/6	many	prominent	Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **2**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **1**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Bromus inermis*	Grass,Smooth Brome	100	UPL(NI)
Shrub				
X	*Cornus racemosa*	Dogwood,Grey	10	FACW-
Tree				
X	*Quercus macrocarpa*	Oak,Bur	5	FAC-
X	*Prunus serotina*	Cherry,Black	5	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **25**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 100% (50% = 50 /20% = 20) S: 10% (50% = 5 /20% = 2) T: 10% (50% = 5 /20% = 2)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Kidder**
Taxonomy: **Typic Hapludalfs**
Drainage Class: **Well Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-18	1	10YR 3/2				Silt Loam
18-20	2	10YR 4/3				Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **20**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **9**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Rhamnus cathartica	Buckthorn,Common	10	FACU
	Geum canadense	Avens,White	5	FAC
X	*Pastinaca sativa*	Parsnip,Wild	30	UPL(NI)
X	*Poa pratensis*	Bluegrass,Kentucky	25	FAC-
X	*Urtica dioica*	Nettle,Stinging	20	FAC+
Shrub				
	Salix exigua	Willow,Sandbar	10	OBL
X	*Rhamnus cathartica*	Buckthorn,Common	50	FACU
X	*Lonicera x bella*	Honeysuckle	30	NI
Tree				
X	*Prunus serotina*	Cherry,Black	50	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **20**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 90% (50% = 45 / 20% = 18) S: 90% (50% = 45 / 20% = 18) T: 50% = (50% = 25 / 20% = 10)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Sable**
Taxonomy: **Typic Endoaquolls**
Drainage Class: **Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 2/2				Silt Loam
10-16	2	10YR 4/4				Silty Clay Loam
16-20	3	GLEY1 2.5/N				Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: No Match
Other: NRCS Field Indicators of Hydric Soils: No Match

Natural Resources Consulting, Inc.

Data Form

Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **20**

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

NRC Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **21**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **9**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Geum canadense	Avens,White	5	FAC
	Alliaria petiolata	Mustard,Garlic	5	FAC
X	*Phalaris arundinacea*	Grass,Reed Canary	65	FACW+
Shrub				
X	*Salix exigua*	Willow,Sandbar	25	OBL

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 75% (50% = 37.5 / 20% = 15) S: 25% (50% = 12.5 / 20% = 5)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **10**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [**X**] Drift lines
- [**X**] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Sable**
Taxonomy: **Typic Endoaquolls**
Drainage Class: **Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-6	1	10YR 3/1				Silty Clay
6-18	2	10YR 4/1	10YR 5/6	many	prominent	Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **22**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **10**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Poa pratensis	Bluegrass,Kentucky	20	FAC-
	Asclepias syriaca	Milkweed,Common	5	UPL(NI)
	Vitis riparia	Grape,River-Bank	5	FACW-
	Cirsium arvense	Thistle,Creeping	1	FACU
X	*Bromus inermis*	Grass,Smooth Brome	90	UPL(NI)

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 121% (50% = 60.5 / 20% = 24.2)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Radford**
Taxonomy: **Fluvaquentic Hapludolls**
Drainage Class: **Somewhat Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-12	1	10YR 3/2				Silt Loam
12-18	2	10YR 3/1				Silty Clay Loam
18-20	3	10YR 3/2				Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Non-Hydrix
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: No Match.

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **23**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **10**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Solidago canadensis	Golden-Rod,Canada	10	FACU
	Pastinaca sativa	Parsnip,Wild	5	UPL(NI)
	Vitis riparia	Grape,River-Bank	5	FACW-
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+
Shrub				
X	*Cornus racemosa*	Dogwood,Grey	10	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 120% (50% = 60 / 20% = 24) S: 10% (50% = 5 / 20% = 2)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [**X**] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Radford**
Taxonomy: **Fluvaquentic Hapludolls**
Drainage Class: **Somewhat Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 3/1				Silty Clay Loam 80% of Matrix
0-10	1	10YR 2/1				Silty Clay Loam 20% of Matrix
10-18	2	10YR 4/2	10YR 4/4	common	distinct	Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [**X**] Listed on Local Hydric Soils List
- [**X**] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix
Hydric Inclusions: Otter: Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **24**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **11**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Rubus occidentalis	Black-Cap	20	UPL(NI)
	Cirsium arvense	Thistle,Creeping	10	FACU
	Medicago lupulina	Medic,Black	5	FAC-
	Taraxacum officinale	Dandelion,Common	1	FACU
X	*Arctium minus*	Burdock, Common	50	UPL(NI)
X	*Solidago canadensis*	Golden-Rod,Canada	30	FACU
Tree				
X	*Quercus macrocarpa*	Oak,Bur	25	FAC-
X	*Prunus serotina*	Cherry,Black	15	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 116% (50% = 58 / 20% = 23.2) T: 40% (50% = 20 / 20% = 8)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Plano**
Taxonomy: **Typic Argiudolls**
Drainage Class: **Well Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-20	1	10YR 3/2				Silt Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **25**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **11**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Parthenocissus quinquefolia	Creeper,Virginia	20	FAC-
	Urtica dioica	Nettle,Stinging	10	FAC+
	Solanum dulcamara	Nightshade,Climbing	5	FAC
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+
Shrub				
X	*Rhamnus cathartica*	Buckthorn,Common	10	FACU
X	*Acer negundo*	Box-Elder	5	FACW-
X	*Lonicera x bella*	Honeysuckle	5	NI
Tree				
X	*Acer negundo*	Box-Elder	70	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **75**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 135% (50% = 67.5 / 20% = 27) S: 20% (50% = 10 / 20% = 4) T: 70% (50% = 35 / 20% = 14)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [**X**] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Radford**
Taxonomy: **Fluvaquentic Hapludolls**
Drainage Class: **Somewhat Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-6	1	10YR 3/1				Silty Clay Loam
6-18	2	10YR 3/1	10YR 5/6	many	prominent	Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [**X**] Listed on Local Hydric Soils List
- [**X**] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 Redox Dark Surface
Hydric Inclusions: Otter - Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **26**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland Ag. Field**
Station ID: **12**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	5	FACW+
X	*Lemna minor*	Duckweed,Lesser	5	OBL
Tree				
X	*Populus deltoides*	Cotton-Wood,Eastern	10	FAC+

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks

Planted Vegetation - Zea Mayes - not considered.
H: 10% (50% = 5 / 20% = 2) T: 10% (50% = 5 / 20% = 2)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **2**
- Depth to Free Water in Pit(in.): **Surface**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [**X**] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-28	1	10YR 3/1				Silty Clay Loam
28-30	2	10YR 2/1				Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: No Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present

[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **27**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland Ag. Field**
Station ID: **12**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Lemna minor*	Duckweed,Lesser	10	OBL
X	*Rumex crispus*	Dock,Curly	5	FAC+
X	*Polygonum persicaria*	Thumb,Lady'S	5	FACW

% Species that are OBL, FACW, or FAC (except FAC-): **100**

NOTE: Species in capital letters denote non-native species.

Remarks

Agricultural Field.
Field not planted (likely because of recent heavy rains).
H: 20% (50% = 10 / 20% = 4)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **2**
- Depth to Free Water in Pit(in.): **Surface**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [**X**] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Plano**
Taxonomy: **Typic Argiudolls**
Drainage Class: **Well Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-10	1	10YR 3/1				Silty Clay Loam
10-18	2	10YR 3/1	10YR 5/6	many	prominent	Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **28**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **UPL Ag. Field**
Station ID: **12**
Plot ID: C

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
X				

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

Remarks

Planted Vegetation - Zea Mayes - not considered.

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Plano**
Taxonomy: **Typic Argiudolls**
Drainage Class: **Well Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16	1	10YR 3/2				Silty Clay Loam
16-20	2	10YR 4/4				Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **29**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **12**
Plot ID: D

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Phalaris arundinacea	Grass,Reed Canary	10	FACW+
X	*Poa pratensis*	Bluegrass,Kentucky	60	FAC-
X	*Lolium perenne*	Ryegrass,Perennial	30	FACU

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks

Vegetation Kept mowed. Adjacent unmowed areas dominated by Phalaris arundinacea.
H: 100% (50% = 50 / 20% = 20)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **2**
- Depth to Free Water in Pit(in.): **Surface**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [**X**] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-6	1	10YR 5/4				Gravelly Fill
6-10	2	10YR 3/1	10YR 5/6	common	prominent	Silty Clay Loam
10-18	3	10YR 4/1	10YR 5/6	many	prominent	Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 Redox Dark Surface
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present

[**Yes**] This Data Point is a Wetland

Remarks

Problem Area/Atypical Situation: Vegetation kept mowed and soil profile contains fill. Professional judgement utilized to consider area wetland despite lacking dominant hydrophytic vegetation.

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **3**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **1**
Plot ID: C

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Solanum dulcamara	Nightshade,Climbing	5	FAC
	Geum canadense	Avens,White	1	FAC
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+
Shrub				
X	*Cornus racemosa*	Dogwood,Grey	25	FACW-
X	*Lonicera x bella*	Honeysuckle	20	UPL(NI)
Tree				
	Prunus serotina	Cherry,Black	5	FACU
	Salix alba	Willow,White	5	FACW
X	*Acer negundo*	Box-Elder	50	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **75**

NOTE: Species in capital letters denote non-native species.

Remarks

H: 106% (50% = 51.5 / 20% = 21.2) S: 45% (50% = 22.5 / 20% = 9) T: 60% (50% = 30 /20% = 12)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **6**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Radford**
Taxonomy: **Fluvaquentic Hapludolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16	1	10YR 3/1	10YR 5/6	common	prominent	Silty Clay Loam
16-18	2	10YR 4/1	7.5YR 5/6	many	prominent	Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 - Redox Dark Surface
Hydric Inclusions: No match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present

[**Yes**] This Data Point is a Wetland

Remarks

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **30**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **12**
Plot ID: E

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Lolium perenne*	Ryegrass,Perennial	30	FACU
X	*Poa pratensis*	Bluegrass,Kentucky	70	FAC-

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 100% (50% = 50 / 20% = 20)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Elburn**
Taxonomy: **Aquic Argiudolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16	1	10YR 2/1				Silt Loam pebbles

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks
Sample Point located on sholder of railroad.
Problem Area/Atypical Situation: Vegetation kept mowed and soil profile contains fill.

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **4**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **2**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Pastinaca sativa	Parsnip,Wild	10	UPL(NI)
	Poa pratensis	Bluegrass,Kentucky	10	FAC-
	Vitis riparia	Grape,River-Bank	5	FACW-
	Cirsium arvense	Thistle,Creeping	5	FACU
	Daucus carota	Queen Anne's Lace	5	UPL(NI)
	Trifolium pratense	Clover,Red	5	FACU+
	Phleum pratense	Timothy	5	FACU
	Taraxacum officinale	Dandelion,Common	1	FACU
X	*Bromus inermis*	Grass,Smooth Brome	85	UPL(NI)

% Species that are OBL, FACW, or FAC (except FAC-): **0**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 131% (50% = 65.5 / 20% = 26.2)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Kidder**
Taxonomy: **Typic Hapludalfs**
Drainage Class: **Well Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-4	1	10YR 3/2				Silt Loam
4-9	2	10YR 3/2	10YR 4/3	common	faint	Silt Loam
9-18	3	10YR 4/3				Silt Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Non-Hydric
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present
[**No**] This Data Point is a Wetland

Remarks

NRC
Natural Resources Consulting, Inc.

Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **5**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **2**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Cirsium arvense	Thistle,Creeping	5	FACU
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+
Tree				
X	*Acer negundo*	Box-Elder	25	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 105% (50% = 52.5 / 20% = 21) T: 25% (50% = 12.5 /20% = 5)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [**X**] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Radford**
Taxonomy: **Fluvaquentic Hapludolls**
Drainage Class: **Somewhat Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-8	1	10YR 3/2				Silt Loam
8-10	2	10YR 3/1				Silt Loam
10-18	3	10YR 3/1	10YR 5/6	many	prominent	Silt Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [**X**] Listed on Local Hydric Soils List
- [**X**] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: No Match
Hydric Inclusions: Match - Otter

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

NRC
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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **6**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upl. Ag. Field**
Station ID: **3**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
X				

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

Remarks

Active Agricultural Field.
Planted Vegetation, Zea mayes, not considered.

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Virgil**
Taxonomy: **Udollic Endoaqualfs**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-6	1	10YR 2/2				Loam
6-18	2	10YR 4/4				Sandy Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual:
Other: NRCS Field Indicators of Hydric Soils
Hydric Inclusions: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

NRC
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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **7**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **3**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+

% Species that are OBL, FACW, or FAC (except FAC-): **100**

NOTE: Species in capital letters denote non-native species.

Remarks

H: 100% (50% = 50 /20% = 20)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **18**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [**X**] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Sable**
Taxonomy: **Typic Endoaquolls**
Drainage Class: **Poorly Drained**
[**X**] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-4	1	10YR 3/1				Silty Clay Loam
4-18	2	10YR 3/1	10YR 4/6	many	prominent	Silty Clay Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [**X**] Listed on Local Hydric Soils List
- [**X**] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks

1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 Redox Dark Surface.

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **8**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upland**
Station ID: **4**
Plot ID: A

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
	Cirsium arvense	Thistle,Creeping	5	FACU
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 105% (50% = 52.5 / 20% = 21)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **None**
- Depth to Saturated Soils(in.): **None**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Kidder**
Taxonomy: **Typic Hapludalfs**
Drainage Class: **Well Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-6	1	10YR 2/2				Silt Loam
6-18	2	10YR 4/2	10YR 4/6	common	prominent	Silt Loam

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
Soil profile appears to be mixed and disturbed.
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks
Sample Point is located on a steep slope.

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **9**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**No**] Is the site significantly disturbed (Atypical Situation)?
[**No**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Wetland**
Station ID: **4**
Plot ID: B

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Phalaris arundinacea*	Grass,Reed Canary	100	FACW+
Tree				
X	*Acer negundo*	Box-Elder	30	FACW-

% Species that are OBL, FACW, or FAC (except FAC-): **100**
NOTE: Species in capital letters denote non-native species.

Remarks
H: 100% (50% = 50 / 20% = 20) T: 30% (50% = 15 /20% = 6)

Hydrology

[ ] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [ ] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **None**
- Depth to Free Water in Pit(in.): **12**
- Depth to Saturated Soils(in.): **Surface**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [**X**] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [**X**] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [**X**] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Radford**
Taxonomy: **Fluvaquentic Hapludolls**
Drainage Class: **Somewhat Poorly Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-16	1	10YR 3/1	10YR 4/6	common	prominent	Silty Clay Loam
16-18	2	GLEY1 2.5/N				Silty Clay

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [**X**] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [**X**] Other (explain in remarks)

Remarks
1987 Manual: Hydric Soil
Other: NRCS Field Indicators of Hydric Soils: F6 Redox Dark Surface.
Hydric Inclusions: No Match

Wetland Determination

[**Yes**] Hydrophytic Vegetation Present
[**Yes**] Hydric Soils Present
[**Yes**] Wetland Hydrology Present
[**Yes**] This Data Point is a Wetland

Remarks

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Data Form
Routine Wetland Determination

Job Number: **008-0106-01**
Town/Village/City: **City of Fitchburg**
Wetland Data Point: **P1**

Project/Site: **McGaw Park**
Applicant/Owner: **T. Wall Properties**
Investigator: **Jeff Kraemer**
[**Yes**] Do normal circumstances exist on the site?
[**Yes**] Is the site significantly disturbed (Atypical Situation)?
[**Yes**] Is the area a potential problem area?

Date: **July 02, 2008**
County: **Dane**
State: **WI**
Community ID: **Upl. Ag. Field**
Station ID:
Plot ID:

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	*Zea mayes*	Corn	30	NI

% Species that are OBL, FACW, or FAC (except FAC-): **0**

NOTE: Species in capital letters denote non-native species.

Remarks

Active Agricultural Field.

Hydrology

[**X**] Recorded Data (describe in remarks)
- [ ] Stream, Lake, or Tide Gage
- [**X**] Aerial Photograph
- [ ] Other (describe in remarks)

Field Observations:
- Depth of Surface Water(in.): **NA**
- Depth to Free Water in Pit(in.): **>18**
- Depth to Saturated Soils(in.): **>18**

Primary Wetland Hydrology Indicators
- [ ] Inundated
- [ ] Saturated in upper 12 inches
- [ ] Water marks
- [ ] Drift lines
- [ ] Sediment deposits
- [ ] Drainage patterns in wetlands

Secondary Hydrology Indicators
- [ ] Oxidized root channels
- [ ] Water-stained leaves
- [ ] Local soil survey data
- [ ] FAC-Neutral test
- [ ] Other (explain in remarks)

Remarks

Soils

Unit Name: **Ringwood**
Taxonomy: **Typic Argiudolls**
Drainage Class: **Well Drained**
[ ] Field Observations match map

Depth (in.)	Hor.	Matrix Color	Mottle / 2nd Mottle Color	Abundance	Contrast	Texture, Structure, etc.
0-5	1	10YR 4/3				Silt Loam
5-12	2	10YR 3/2				Silt Loam
12-14	3	10YR 3/2	10YR 5/2	common	prominent	Silt Loam
14-18	4	10YR 4/4	10YR 5/2	common	prominent	Silty Clay Loam 60% of Matrix
14-18	4	10YR 3/2	10YR 5/2	common	prominent	Silty Clay Loam 40% of Matrix

Hydric Soils Indicators
- [ ] Histosol
- [ ] Histic Epipedon
- [ ] Sulfidic Odor
- [ ] Probable Aquatic Moist Regime
- [ ] Reducing Conditions
- [ ] Gleyed or Low-Chroma Colors
- [ ] Concretions
- [ ] High Organic % in Surface Layer in Sandy Soils
- [ ] Organic Streaking in Sandy Soils
- [ ] Listed on Local Hydric Soils List
- [ ] Listed on National Hydric Soils List
- [ ] Other (explain in remarks)

Remarks

1987 Manual: Non-Hyric
Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[**No**] Hydrophytic Vegetation Present
[**No**] Hydric Soils Present
[**No**] Wetland Hydrology Present

[**No**] This Data Point is a Wetland

Remarks

APPENDIX B

SITE PHOTOGRAPHS

W-3; Facing NW.

W-3; Facing SW.

Un-named triburary to Swan Creek which flows through W-1. Near P3; Facing NE.

Upland swale N of P1; Facing S.

Un-named triburary to Swan Creek which flows through W-1. Near P3; Facing SW.

Old field NE of P4; Facing S.

Old field NE of P4; Facing NW.

W-1 N boundary near P6; Facing W.

W-1 N boundary from N of P6; Facing S.

W-1 N boundary from N of P6; Facing W.

Upland swale W of P6; Facing N.

W-1 N boundary from near W edge of delineated line (S of shed); Facing NE.

Small upland drainage from grain bins near W edge of delineated W-1 N boundary; Facing NW.

Oak trees in upland near W edge of delineated W-1 N boundary; Facing NE.

From P15; Facing N.

Un-named triburary to Swan Creek which flows through W-1. Near P10; Facing SE.

From P14; Facing E.

From P14; Facing NE.

W-1 W boundary from N of P16; Facing S.

Intermittent upland drainage near P18; Facing W.

Intermittent upland drainage from W of P18; Facing E.

Intermittent upland drainage from W of P18; Facing W.

From P22; Facing SW.

From P22; Facing NE.

From P24; Facing N.

From P24; Facing NE.

From Blaney Road; Facing W to W-2.

Un-named triburary to Swan Creek which flows through W-1.
From SW of P25; Facing NE.

W-2; Facing N.

W-2; Facing S.

W-2; Facing S from near N end.