WETLAND DELINEATION REPORT

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

August 14, 2008

Prepared For:

City of Fitchburg 5220 Lacy Road Fitchburg, WI 535711

Prepared By:



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NRC Project #: 008-0106-01

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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	No inlets or outlets observed	0.25 acres
	wetland		

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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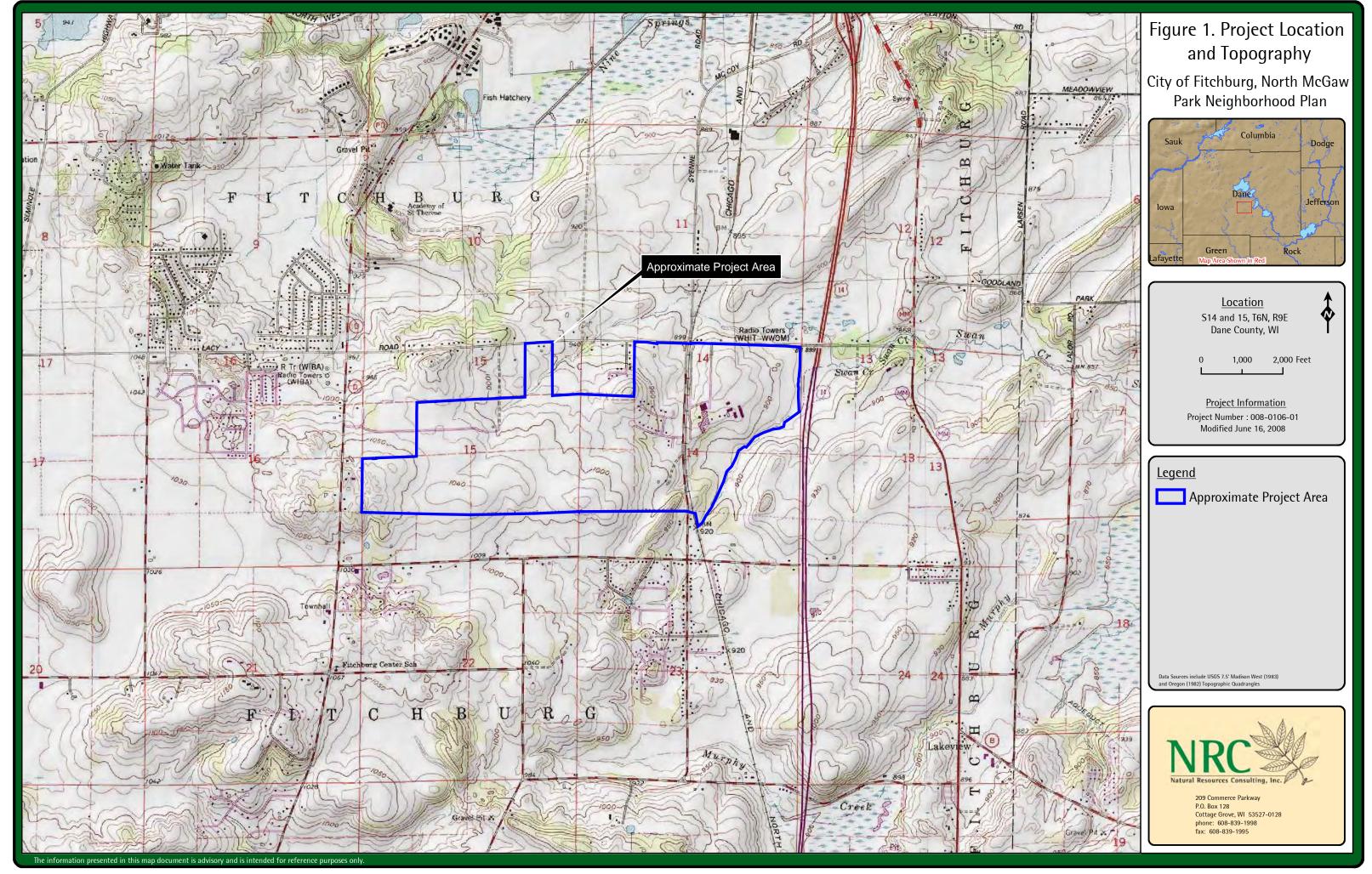
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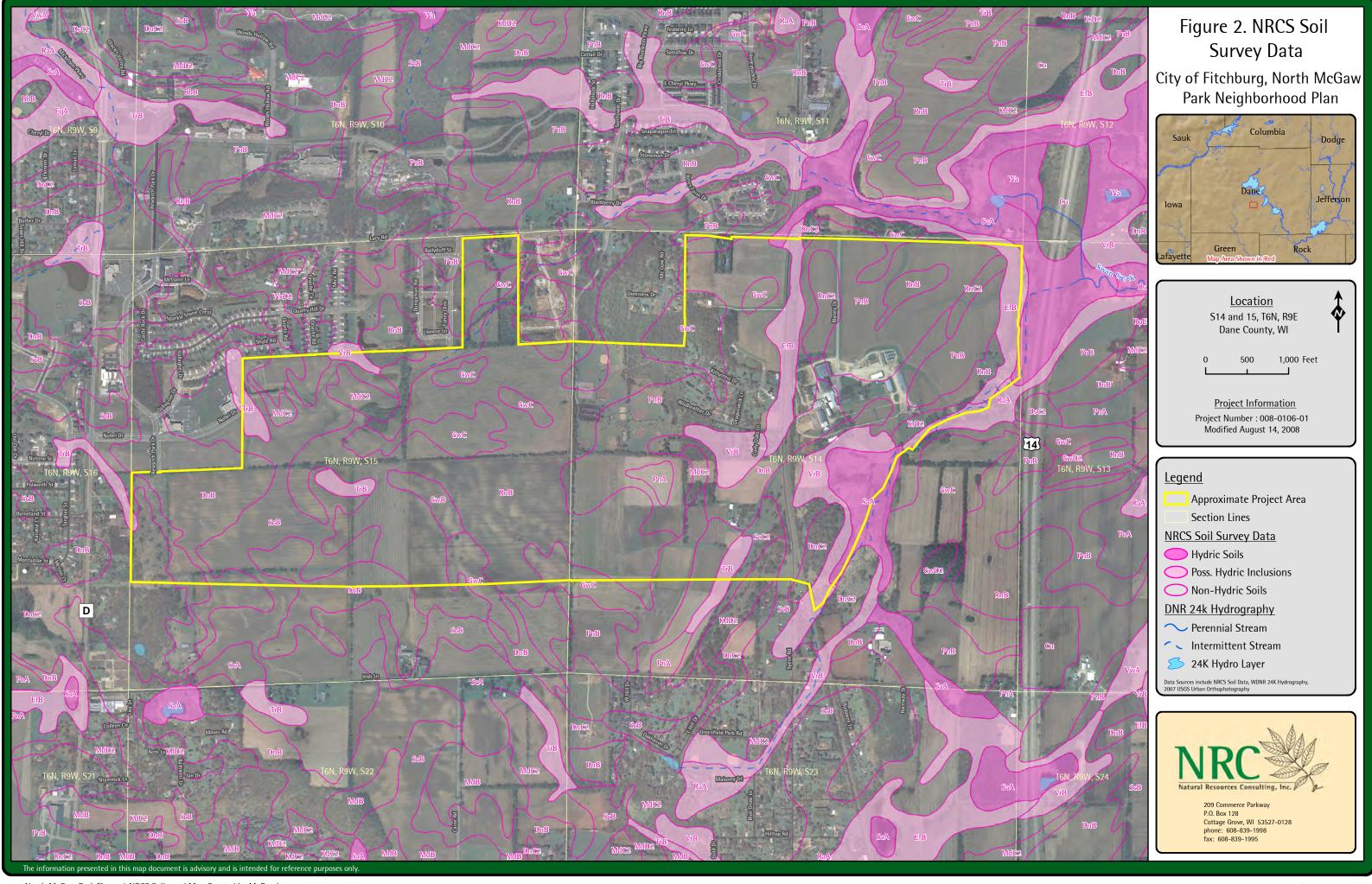
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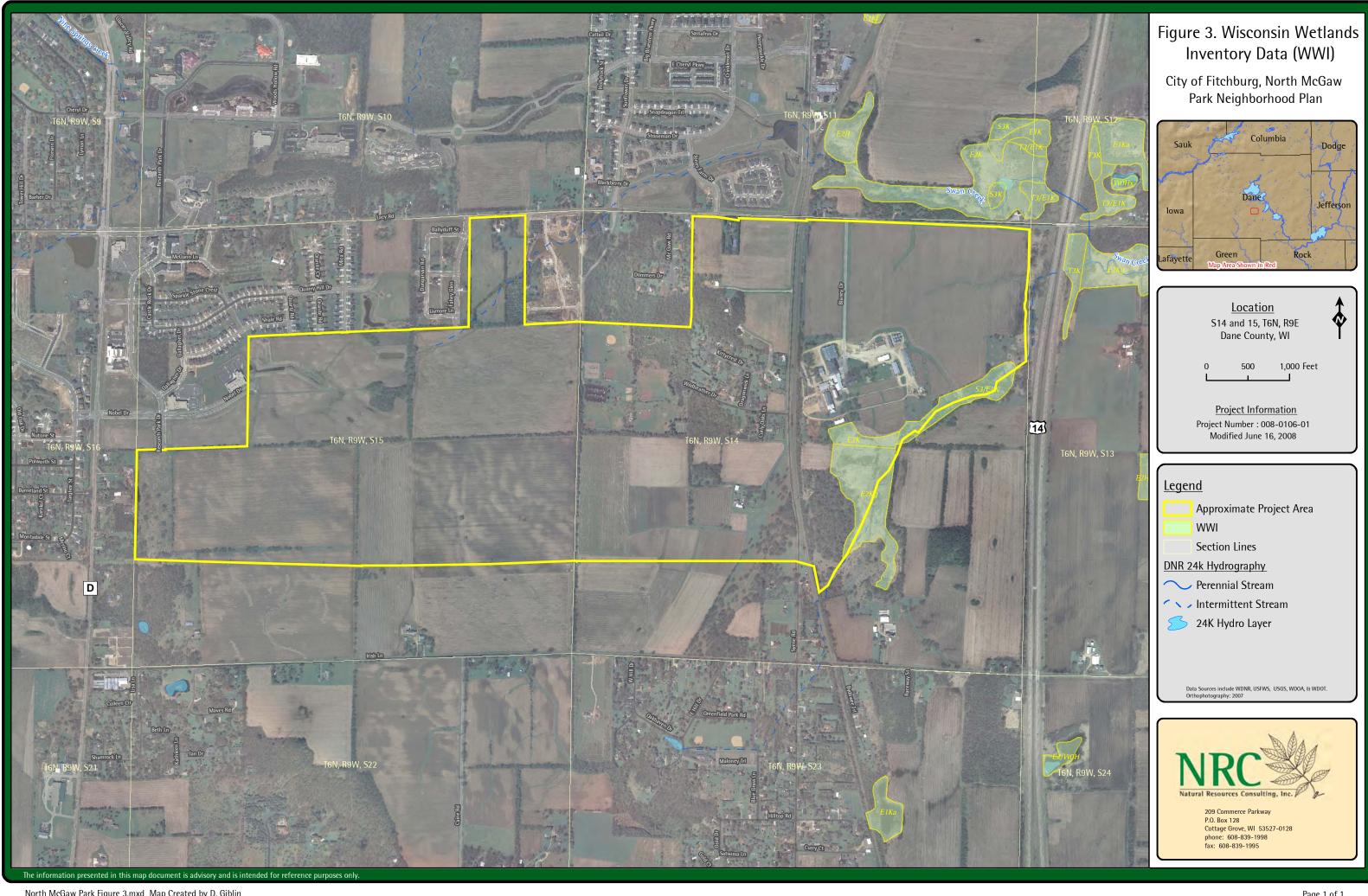
FIGURES



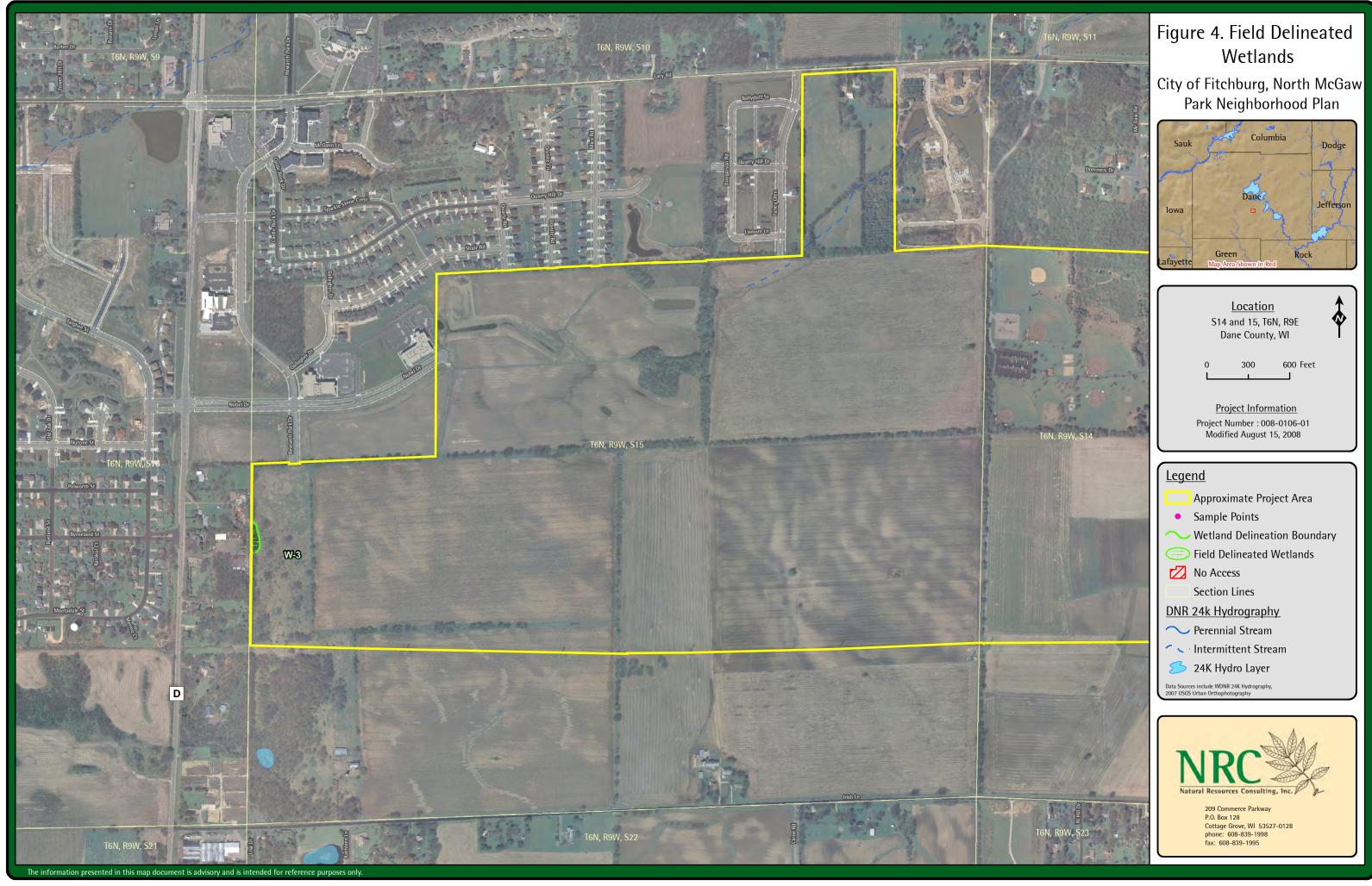
North McGaw Park Figure 1.mxd Map Created by D. Giblin

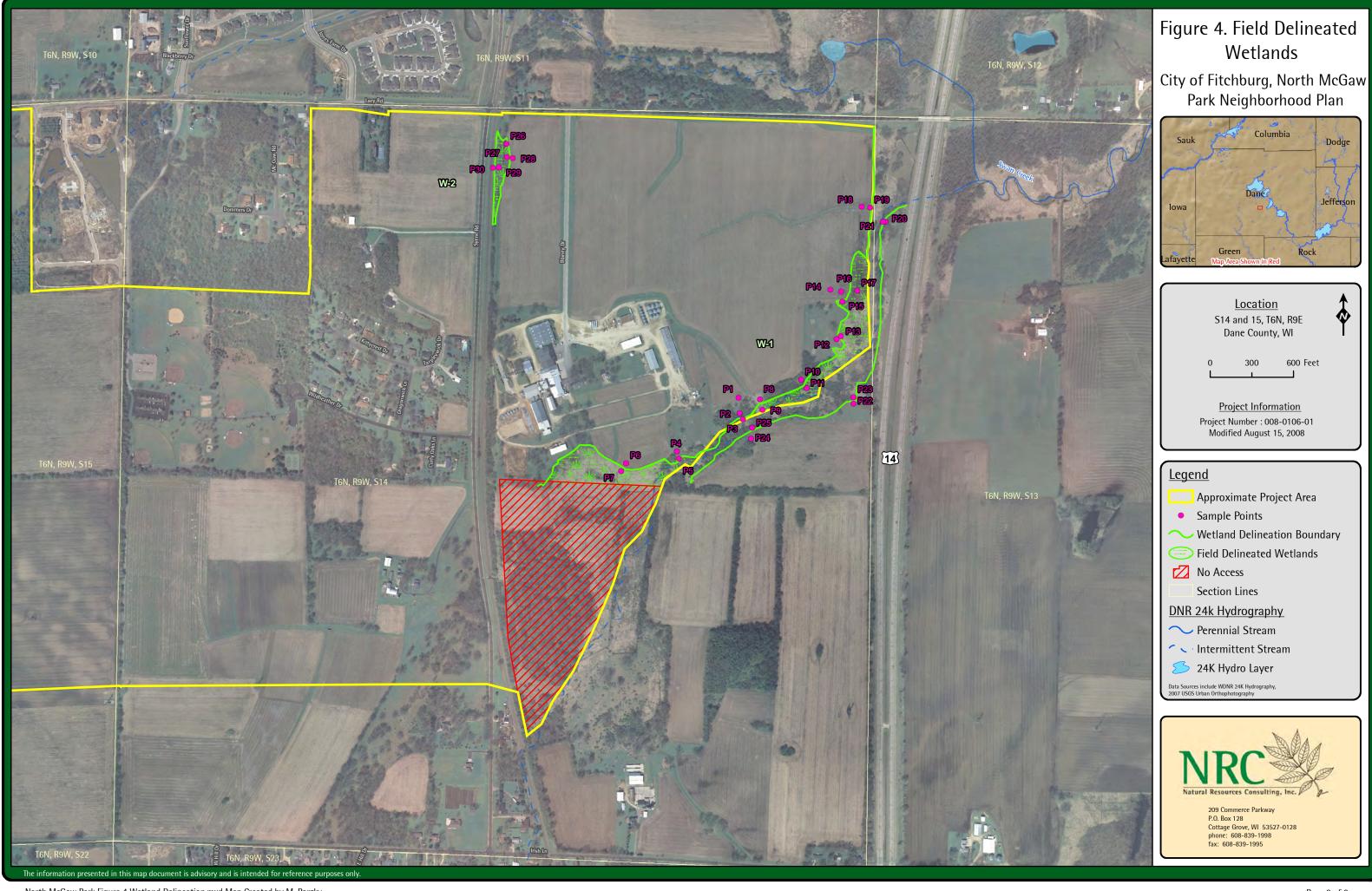


North McGaw Park Figure 2 NRCS Soils.mxd Map Created by M. Porzky



North McGaw Park Figure 3.mxd Map Created by D. Giblin Page 1 of 1





APPENDIX A US ARMY CORPS OF ENGINEERS DATA SHEETS



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 10

Project/Site: McGaw Park Date: July 02, 2008 Applicant/Owner: T. Wall Properties County: Dane Investigator: Jeff Kraemer State: WI [Yes] Do normal circumstances exist on the site? Community ID: Upland [No] Is the site significantly disturbed (Atypical Situation)? Station ID: 5 [No] Is the area a potential problem area? 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)
<u>Tree</u>				
X	Acer negundo	Box-Elder	30	FACW-
Χ	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	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
[] 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	[] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands	 [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks)
Remarks		
Goils Unit Name: Elburn	Taxonomy: Aquic Argiudolls	
Drainage Class: Somewhat Poorly Drained	[] Field Observations match map	
Depth Hor. Matrix Mottle / 2nd Mot		70
(in.) Color Color		ure, etc.
0-17 1 10YR 3/2	Silt Lo	·
17-20 2 10YR 4/4	Silty C	Clay Loam
Hydric Soils Indicators		
[] Histosol	[] Concretions	
[] Histic Epipedon	[] High Organic % in Surfac	e Layer in Sandy Soils
[] Sulfidic Odor	[] Organic Streaking in San	dy Soils
[] Probable Aquatic Moist Regime	[] Listed on Local Hydric So	ils List
[] Reducing Conditions	[] Listed on National Hydric	Soils List
[] Gleyed or Low-Chroma Colors	[] Other (explain in remarks)
Remarks 1987 Manual: Non-Hydric Other: NRCS Field Indicators of Hydric Soils: N Hydric Inclusions: No Match Wetland Determination	No Match	

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

[No] This Data Point is a Wetland

Remarks



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 11

Project/Site: McGaw Park	Date: July 02, 2008		
Applicant/Owner: T. Wall Properties	County: Dane		
Investigator: Jeff Kraemer	State: WI		
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland		
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 5		
[No] Is the area a potential problem area?	Plot ID: B		

Vegetation

090141.01.				
Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	Phalaris arundinacea	Grass,Reed Canary	100	FACW+
<u>Shrub</u>		•		
X	Lonicera x bella	Honeysuckle	15	UPL(NI)
Χ	Vitis riparia	Grape,River-Bank	5	FACW-
<u>Tree</u>	•			
	Prunus serotina	Cherry,Black	5	FACU
Χ	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)

	corded [] Str [] Ae [] Oth Dbserva Depth Depth	Data (describe in ream, Lake, or Tide rial Photograph her (describe in rer ations: of Surface Water(i to Free Water in P to Saturated Soils(e Gage marks) n.): None it(in.): 10	Primary Wetland Hydrology Indicators [] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands		nes	lecondary Hydrology Indicators [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [X] FAC-Neutral test [] Other (explain in remarks)
Remar	ks						
Soils Unit Na			J. Butl		omy: Aquic Argiud		
•		S: Somewhat Poo	-		eld Observations ma	·	
Depth (in.)	HOr.	Matrix Color	Mottle / 2nd M Color	Abundance	Contrast	Texture, Structure, etc.	
0-16 16-18	1 2	10YR 3/1 GLEY1 2.5/N	10YR 4/6	common	prominent	Silty Clay Loam Silty Clay	
Hydric	Soils I	ndicators					
[]	Histos	ol			[] Concretions		
[]	Histic	Epipedon		[] High Organic % in Surface Layer in Sandy Soils		Sandy Soils	
[]	Sulfidi	c Odor			[] Organic Streaki	ng in Sandy Soils	
		ble Aquatic Moist F	Regime		[] Listed on Local	•	
		cing Conditions			[] Listed on Nation	•	
[X]	Gleye	d or Low-Chroma (Colors		[X] Other (explain in	n remarks)	
Other	Manua : NRC	al: Hydric Soil S Field Indicator sions: No Match	s of Hydric Soils	: F6 Redox Darl	k Surface		
Wetlan	d De	termination					

[Yes] Hydrophytic Vegetation Present

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks

[Yes] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 12

Project/Site: McGaw Park	D	eate: July 02, 2008		
Applicant/Owner: T. Wall Properties		county: Dane		
Investigator: Jeff Kraemer		tate: WI		
[Yes] Do normal circumstances exist on the site?	C	community ID: Upland		
[No] Is the site significantly disturbed (Atypical Situation)	? S	tation ID: 6		
[No] Is the area a potential problem area?	P	lot ID: A		
Vegetation				
Dominant Species	Common Name / CofC	% Cover Indicator		
<u>Herbaceous</u>				
Cirsium arvense	Thistle,Creeping	1 FACU		
X Bromus inermis	Grass,Smooth Brome	100 UPL(NI) cies in capital letters denote non-native species.		
% Species that are OBL, FACW, or FAC (except FAC-):	NOTE. Spec	cles in capital letters deflote flori-flative species.		
Remarks				
H: 101% (50% = 50.5 /20% = 20.2)				
Hydrology	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators		
[] Recorded Data (describe in remarks)	[] Inundated	[] Oxidized root channels		
[] Stream, Lake, or Tide Gage	[] Saturated in upper 12 inches	[] Water-stained leaves		
[] Aerial Photograph	[] Water marks	[] Local soil survey data		
[] Other (describe in remarks)	[] Drift lines	[] FAC-Neutral test		
Field Observations:	[] Sediment deposits	[] Other (explain in remarks)		
Depth of Surface Water(in.): None	[] Drainage patterns in wetlands			
Depth to Free Water in Pit(in.): None				
Depth to Saturated Soils(in.): None				
Departe datarated dons(iii.). Notice				
Remarks				
Soils				
Unit Name: Elburn	Taxonomy: Aquic Argiudolls			
Drainage Class: Somewhat Poorly Drained	[] Field Observations match map			
Depth Hor. Matrix Mottle / 2nd Mottle	• •	s		
•	Abundance Contrast Structu	•		
0-10 1 10YR 3/2		ay Loam		
10-18 2 GLEY1 2.5/N	Silty Cl	ay Loam		
Hydric Soils Indicators				
[] Histosol	[] Concretions			
[] Histic Epipedon	[] High Organic % in Surface	Laver in Sandy Soils		
Sulfidic Odor				
[] Sulfidic Odor [] Organic Streaking in Sandy Soils [] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List				
[] Reducing Conditions	[] Listed on National Hydric S			
[X] Gleyed or Low-Chroma Colors	Other (explain in remarks)	2.00		
,	[] carer (explain in remains)			
Remarks 1987 Manual: Hydric Soil				

Wetland Determination

[No] Hydrophytic Vegetation Present

Other: NRCS Field Indicators of Hydric Soils: No Match

[Yes] Hydric Soils Present

[No] Wetland Hydrology Present

Hydric Inclusions: No Match

Remarks

 $[{f No}]$ This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 13

Project/Site: McGaw Park			Date: July 02,	2008	
Applicant/Owner: T. Wall Properties			County: Dane		
Investigator: Jeff Kraemer			State: WI		
[Yes] Do normal circumstances exist on the site?			Community ID:	Wetland	
[No] Is the site significantly disturbed (Atypical Situation	1)?		Station ID: 6		
[No] Is the area a potential problem area?			Plot ID: B		
Vegetation					
Dominant Species	Commo	n Name / CofC		% Cover	Indicator
<u>Herbaceous</u>					
X Phalaris arundinacea	Grass,R	leed Canary		100	FACW+
% Species that are OBL, FACW, or FAC (except FAC-)	: 100	NC	OTE: Species in capital I	etters denote no	n-native species.
Remarks					
H: 100% (50% = 50 / 20% = 20)					
Hydrology	Primary Wetland	l Hydrology Indicat	tors Second	dary Hydrology I	ndicators
Recorded Data (describe in remarks)	[X] Inundated			Oxidized root channels	
Stream, Lake, or Tide Gage	Saturated in upper 12 inches			[] Water-stained leaves	
Aerial Photograph	[] Water marks			[] Local soil survey data	
[] Other (describe in remarks)	Drift lines			FAC-Neutral tes	
[] Other (describe in remarks)				Other (explain in	
Field Observations:	[] Sediment deposits[] Drainage patterns in wetlands			Other (explain ii	i ieiliaiks)
Depth of Surface Water(in.): 1	[] Diamage	patterns in wettant	us		
Depth to Free Water in Pit(in.): N/A					
Depth to Saturated Soils(in.): N/A					
Demants					
Remarks					
Soils					
Unit Name: Elburn	Taxonom	y: Aquic Argiudol	lls		
Drainage Class: Somewhat Poorly Drained	[] Field	Observations matc	ch map		
Depth Hor. Matrix Mottle / 2nd Mott			Texture,		
(in.) Color Color		ontrast	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 [] Concretions

[] Histic Epipedon [] High Organic % in Surface Layer in Sandy Soils

[] Sulfidic Odor [] Organic Streaking in Sandy Soils

[] Probable Aquatic Moist Regime [] Listed on Local Hydric Soils List

[] Reducing Conditions [] Listed on National Hydric Soils List

[X] Gleyed or Low-Chroma Colors [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

Remarks

[Yes] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 14

Project/Site: McGaw Park Applicant/Owner: T. Wall P	roperties		Date: July County: D ate:	
Investigator: Jeff Kraemer			State: WI	
[Yes] Do normal circumstan	ces exist on the site?		•	/ ID: Upl. Ag. Field
	disturbed (Atypical Situation)	?	Station ID:	
[Yes] Is the area a potential	problem area?		Plot ID: A	4
Vegetation				
Dominant Species		Common Name / Cof	3	% Cover Indicator
Х				
% Species that are OBL, FA	ACW, or FAC (except FAC-):	0	NOTE: Species in cap	pital letters denote non-native species.
Remarks				
Active Agricultural Field				
	a mayes, not considered.			
Hydrology	I	Primary Wetland Hydrology Ind	dicators Se	econdary Hydrology Indicators
[] Recorded Data (descri	ibe in remarks)	[] Inundated		[] Oxidized root channels
[] Stream, Lake, o	or Tide Gage	[] Saturated in upper 12 ir	iches	[] Water-stained leaves
[] Aerial Photogra	ph	[] Water marks		[] Local soil survey data
[] Other (describe	in remarks)	[] Drift lines		[] FAC-Neutral test
Field Observations:		[] Sediment deposits		[] Other (explain in remarks)
Depth of Surface W	/ater(in.): None	[] Drainage patterns in we	tlands	
Depth to Free Wate	` '			
Depth to Saturated	` '			
·	. ,			
Remarks				
	kely a result of recent hea	vy rains.		
Soils Unit Name: Elburn		Taxonomy: Aquic Argi	udolle	
	4 December Durche and	, , ,		
Drainage Class: Somewha		[] Field Observations r	•	
Depth Hor. Matrix (in.) Color	Mottle / 2nd Mottle Color A	Abundance Contrast	Texture, Structure, etc.	
0-8 1 10YR 2/1	00101 7	ibundance Contrast	Silty Clay Loam	
8-18 2 10YR 4/2			Silty Clay	
Hydric Soils Indicators				
[] Histosol		[] Concretions		
[] Histic Epipedon		• •	% in Surface Layer in	Sandy Soils
[] Sulfidic Odor			aking in Sandy Soils	54.14) 55.15
[] Probable Aquatic N	Noist Regime		al Hydric Soils List	
[] Reducing Condition	-	= = =	ional Hydric Soils List	
[] Gleyed or Low-Chr		[] Other (explain	•	
Remarks			•	
1987 Manual: Non-Hyd	ric			
•	cators of Hydric Soils: No	Match		
Hydric Inclusions: No M	•			
Wetland Determinati	on			
[No] Hydrophytic Vegetation	on Present	[No] This Data Po	oint is a Wetland	

[No] Hydric Soils Present

[No] Wetland Hydrology Present

Remarks

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



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 15

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wtld. Ag. Field
[Yes] Is the site significantly disturbed (Atypical Situation)?	Station ID: 7
[Yes] Is the area a potential problem area?	Plot ID: B
lo mototio m	

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 th	at are OBL, FACW, or FAC (except FAC-): 100		NOTE: Species in capital lette	ers denote no	n-native species.

Remarks

Agricultural Field.

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

H: 3%	6 (50%	5 = 1.5 / 20% =	0.06)	,,.			
Hydrol			,	Primary Weti	and Hydrology Indica	ators	Secondary Hydrology Indicators
[]Re	ecordec	Data (describe in remarks) [] Inundated					[] Oxidized root channels
	[] Str	ream, Lake, or Tid	le Gage	[X] Satura	ated in upper 12 inch	ies	[] Water-stained leaves
	[] Ae	rial Photograph		[] Water	marks		[X] Local soil survey data
	[] Ot	her (describe in re	emarks)	[] Drift li	nes		[X] FAC-Neutral test
Field Observations: Depth of Surface Water(in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding.					nent deposits age patterns in wetla	nds	[X] Other (explain in remarks)
Soils				-			
Unit Na					omy: Aquic Argiud		
Drainag	ge Class	s: Somewhat Po	orly Drained	[X] Fi	eld Observations ma	tch map	
Depth	Hor.		Mottle / 2nd M			Texture,	
(in.)		Color	Color	Abundance	Contrast	Structure, etc.	
0-10	1	10YR 2/1				Silty Clay Loan	1
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	

Hydric Soils Indicators

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



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 16

Project/Site: McGaw Park			Date: July 02, 2008	
Applicant/Owner: T. Wall Properties			County: Dane	
Investigator: Jeff Kraemer			State: WI	
[Yes] Do normal circumstances exist on the site?			Community ID: Upl. Ag. Field	
[Yes] Is the site significantly disturbed (Atypical Situation	ነ)?		Station ID: 7	
[Yes] Is the area a potential problem area?			Plot ID: C	
Vegetation				
Dominant Species	Commo	on Name / CofC	% Cover Indicator	
<u> </u>				
X				
% Species that are OBL, FACW, or FAC (except FAC-):	0	NOTE	E: Species in capital letters denote non-native species	3 .
Remarks	•			-
Active Agricultural Field.				
Planted Vegetation, Zea mayes, not considered				
				_
Hydrology	Primary Wetland	d Hydrology Indicators	s Secondary Hydrology Indicators	
[] Recorded Data (describe in remarks)	[] Inundated	t	[] Oxidized root channels	
[] Stream, Lake, or Tide Gage	[] Saturated	d in upper 12 inches	[] Water-stained leaves	
[] Aerial Photograph	[] Water ma	arks	[] Local soil survey data	
[] Other (describe in remarks)	[] Drift lines		[] FAC-Neutral test	
Field Observations:	[] Sediment	deposits	[] Other (explain in remarks)	
	[] Drainage	patterns in wetlands		
Depth of Surface Water(in.): None				
Depth to Free Water in Pit(in.): None				
Depth to Saturated Soils(in.): None				
Remarks				
Soils				
Unit Name: Ringwood	Taxonom	y: Typic Argiudolls		
Drainage Class: Well Drained	[] Field	Observations match r	map	
Depth Hor. Matrix Mottle / 2nd Mottle	е	7	Гexture,	
(in.) Color Color	Abundance C	to t	No. of the second second	
0-10 1 10YR 3/2	, 10 a a a c c	ontrast S	Structure, etc.	
5.5	,		Sitructure, etc. Silty Clay Loam	
10-18 2 10YR 2/1	7.00.1.00	5	·	
	,	5	Silty Clay Loam	
10-18 2 10YR 2/1 18-22 3 10YR 4/2	, 13011001100	5	Silty Clay Loam Silty Clay Loam	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators		\$ \$ \$	Silty Clay Loam Silty Clay Loam	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol	[]	S S S J Concretions	Bilty Clay Loam Bilty Clay Loam Bilty Clay	
10-18	1	S S] Concretions] High Organic % in S	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay Burface Layer in Sandy Soils	
10-18	.] .]]	Concretions High Organic % in S Organic Streaking in	Bilty Clay Loam Bilty Clay Loam Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime	.] .] .]	Concretions Concretions High Organic % in S Organic Streaking in	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions	.] .] .] .]	Concretions Concretions High Organic % in S Organic Streaking in Listed on Local Hydi	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime	.] .] .] .]	Concretions Concretions High Organic % in S Organic Streaking in	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions	.] .] .] .]	Concretions Concretions High Organic % in S Organic Streaking in Listed on Local Hydi	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Remarks 1987 Manual: No Match]]]]]]	Concretions Concretions High Organic % in S Organic Streaking in Listed on Local Hydi	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Remarks]]]]]]	Concretions Concretions High Organic % in S Organic Streaking in Listed on Local Hydi	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Remarks 1987 Manual: No Match]]]]]]	Concretions Concretions High Organic % in S Organic Streaking in Listed on Local Hydi	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	
10-18 2 10YR 2/1 18-22 3 10YR 4/2 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Remarks 1987 Manual: No Match Other: NRCS Field Indicators of Hydric Soils: No	I I I I I I I I I I I I I I I I I I I	Concretions Concretions High Organic % in S Organic Streaking in Listed on Local Hydi	Bilty Clay Loam Bilty Clay Loam Bilty Clay Bilty Clay	

[No] Hydric Soils Present
[No] Wetland Hydrology Present

Remarks



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 17

Applicant/Owner: T. Wall Properties Investigator: Jeff Kraemer State: WI [Yes] Do normal circumstances exist on the site? [Yes] Is the site significantly disturbed (Atypical Situation)? [Yes] Is the area a potential problem area? Vegetation Dominant Species Common Name / CofC NOTE: Species in capital letters denote non-native species. Remarks Agricultural Field. Field not planted (likely because of recent heavy rains).	Drojoet/Cite: McCour Borls		Data: July 02 2000		
Investigator: Jeff Kraemer Statie: W Yes Do normal circumstances exist on the site? Community ID: Wtld. Ag. Field Yes Is the site significantly disturbed (Atypical Situation)? Station ID: 7 Yes Is the area a potential problem area? Plot ID: D Yes Is the area a potential problem area? Plot ID: D Yes Species Spe	•	Date: July 02, 2008			
Yes Do normal circumstances exist on the site? Community ID: Wttd. Ag. Field Yes Is the site significantly disturbed (Atypical Situation)? Yes Is the area a potential problem area? Plot ID: D Yegetation	•		•		
Yes] Is the site significantly disturbed (Atypical Situation)? Yes] Is the area a potential problem area? Plot ID: D					
Yeggetation Dominant Species Common Name / CofC % Cover Indicator					
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 Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks) Inundated		Jation)?			
Note			Plot ID: D		
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 Primary Wetland Hydrology Indicators Secondary Hydrology Indicators [] Recorded Data (describe in remarks)	_				
Remarks Agricultural Field. Field not planted (likely because of recent heavy rains). Hydrology Primary Wetland Hydrology Indicators Oxidized root channels Oxidize	Dominant Species	Common Name / Cof	C % Cover Indicator		
Remarks Agricultural Field. Field not planted (likely because of recent heavy rains). Hydrology Primary Wetland Hydrology Indicators	X				
Agricultural Field. Field not planted (likely because of recent heavy rains). Hydrology Primary Wetland Hydrology Indicators [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Water marks [] Other (describe in remarks) [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands Depth of Surrace Water (in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Drainage Class: Somewhat Poorly Drained Depth Hor. Matrix Mottle / 2nd Mottle Color Abundance Contrast Secondary Hydrology Indicators I Jovidicators Secondary Hydrology Indicators I Jovidicators I Jovidicat	% Species that are OBL, FACW, or FAC (except FACW)	AC-): 0	NOTE: Species in capital letters denote non-native species.		
Field not planted (likely because of recent heavy rains). Hydrology Primary Wetland Hydrology Indicators [] Recorded Data (describe in remarks) [] Stream, Lake, or Tide Gage [X] Saturated in upper 12 inches [] Jerial Photograph [] Water marks [] Other (describe in remarks) [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Field Observations: Depth of Surface Water (in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Color Abundance Contrast Structure, etc.	Remarks				
Hydrology Primary Wetland Hydrology Indicators [] Recorded Data (describe in remarks) [] Inundated [] Stream, Lake, or Tide Gage [] Aerial Photograph [] Water marks [] Other (describe in remarks) [] Drift lines [] FAC-Neutral test [] Sediment deposits [] Drainage patterns in wetlands Field Observations: Depth of Surface Water (in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Drainage Class: Somewhat Poorly Drained Depth Hor. Matrix [Mottle / 2nd Mottle	Agricultural Field.				
[] Recorded Data (describe in remarks)	Field not planted (likely because of recent h	eavy rains).			
[] Recorded Data (describe in remarks)	Hydrology	Primary Wetland Hydrology In	dicators Secondary Hydrology Indicators		
[] Stream, Lake, or Tide Gage	[] Recorded Data (describe in remarks)		, , ,		
[] Aerial Photograph		[X] Saturated in upper 12 in	nches [] Water-stained leaves		
Field Observations: Depth of Surface Water (in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Drainage Class: Somewhat Poorly Drained Depth Hor. Matrix Mottle / 2nd Mottle (in.) Color Abundance Contrast [] Sediment deposits [X] Other (explain in remarks)					
Pield Observations: Depth of Surface Water (in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Drainage Class: Somewhat Poorly Drained Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.	Other (describe in remarks)	Drift lines	[] FAC-Neutral test		
Depth of Surface Water (in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Drainage Class: Somewhat Poorly Drained Depth Hor. Matrix Mottle / 2nd Mottle (in.) Color Abundance Contrast Drainage patterns in wetlands Drainage patterns in wetlands Taxonomy: Aquic Argiudolls	Field Observations	[] Sediment deposits	[X] Other (explain in remarks)		
Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): Surface Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.		[] Drainage patterns in we	etlands		
Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.					
Remarks Other: Evidence of Ponding. Soils Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.					
Other: Evidence of Ponding. Soils Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.	Depth to Saturated Solis(In.): Surface				
Soils Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.					
Unit Name: Elburn Taxonomy: Aquic Argiudolls Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.					
Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.					
Depth Hor. Matrix Mottle / 2nd Mottle Texture, (in.) Color Abundance Contrast Structure, etc.		· · · · ·			
(in.) Color Color Abundance Contrast Structure, etc.	Drainage Class: Somewhat Poorly Drained	[X] Field Observations	match map		
	· — —		•		
0-10 1 10 R 2/1 10 R 4/6 common prominent Silty Clay Loam	X /		·		
10-18 2 10YR 4/2 10YR 4/6 many prominent Silty Clay		•			
10-18 2 10YR 4/2 10YR 4/6 many prominent Silty Clay 10YR 4/1 common faint		·	Silly Clay		
Hydric Soils Indicators					
[] Histosol [] Concretions	-	[] Concretions			
[] Histic Epipedon [] High Organic % in Surface Layer in Sandy Soils		• •	% in Surface Layer in Sandy Soils		
[] Sulfidic Odor [] Organic Streaking in Sandy Soils			, , ,		
[] Probable Aquatic Moist Regime [X] Listed on Local Hydric Soils List					

Remarks

1987 Manual: Hydric Soil

[] Reducing Conditions [X] Gleyed or Low-Chroma Colors

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

Remarks

[Yes] This Data Point is a Wetland

[X] Listed on National Hydric Soils List

[X] Other (explain in remarks)



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 18

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Upland Swale
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 8
[No] Is the area a notential problem area?	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	Primary Wet	land Hydrology Indic	eators Secondary Hydrology Indicators
[] 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	[] Wateı [] Drift li [] Sedin [] Drain	ated in upper 12 incl r marks	[] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks)
Remarks Perched water table - likely a result of re	ecent heavy rains		
Soils Unit Name: Elburn	•	nomy: Aquic Argiud	iolis
Drainage Class: Somewhat Poorly Drained	[]Fi	eld Observations ma	atch map
Depth (in.) Hor. Color Matrix Color Mottle / Color 0-12 1 10YR 3/1 12-18 2 10YR 4/1 10YR 5/1	2nd Mottle Abundance 6 many	Contrast	Texture, Structure, etc. Silty Clay Loam Silty Clay
Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [X] Gleyed or Low-Chroma Colors		[] Organic Streaki	Hydric Soils List nal Hydric Soils List
Remarks 1987 Manual: Hydric Soil Other: NRCS Field Indicators of Hydric Hydric Inclusions: No Match Wetland Determination	Soils: A11 Depleted	Below Dark Surfa	ce

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

[No] This Data Point is a Wetland

Remarks



Depth of Surface Water(in.): **None**Depth to Free Water in Pit(in.): **None**

Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 19

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 8
[No] Is the area a potential problem area?	Plot ID: B

[ICS] DO NON	mai direametanees exist on the site:	001	minumity ib. Wetland			
[No] Is the si	te significantly disturbed (Atypical Situat	ion)? Sta	tion ID: 8			
[No] Is the ar	rea a potential problem area?	Plo	ot ID: B			
Vegetation	1					
Dominant	Species	Common Name / CofC	% Cover	Indicator		
Herbaceous	<u>i</u>					
X	Phalaris arundinacea	Grass,Reed Canary	90	FACW+		
<u>Shrub</u>	D	D 111 0	_	E4.011		
X T	Rhamnus cathartica	Buckthorn,Common	5	FACU		
<u>Tree</u> X	Acer negundo	Box-Elder	5	FACW-		
% Species th	nat are OBL, FACW, or FAC (except FA	C-): 66 NOTE: Specie	es in capital letters denote no	n-native species.		
Remarks						
H: 90% (5	60% = 45 /20% = 18) S: 5% (50% =	= 2.5 / 20% = 1) T: 5% (50% = 2.5 / 20% = 1	1)			
Hydrology	1	Primary Wetland Hydrology Indicators	Secondary Hydrology I	ndicators		
[] Recorded Data (describe in remarks)		[] Inundated	[] Oxidized root channels			
[] Stream, Lake, or Tide Gage		[X] Saturated in upper 12 inches	[] Water-stained leaves			
[] Aerial Photograph		[] Water marks	[] Local soil survey data			
[] Other (describe in remarks)		Drift lines	[X] FAC-Neutral test			
Field Obse	,	[] Sediment deposits	[] Other (explain in			
	th of Surface Water(in): None	[] Drainage patterns in wetlands				

	Depth	to Saturated So	ils(in.): Surface				
Remai	rks						
Soils							
Unit Na	me: El	lburn		Taxor	nomy: Aquic Argiud	iolis	
Drainag	ge Clas	s: Somewhat Po	oorly Drained	[] Fi	eld Observations ma	atch map	
Depth	Hor.	Matrix	Mottle / 2nd M	lottle		Texture,	
(in.)		Color	Color	Abundance	Contrast	Structure, etc.	
0-18	1	10YR 4/1	10YR 5/6	many	prominent	Silty Clay	
Hydric	Soils	Indicators					
[]] Histos	sol			[] Concretions		
[]] Histic	Epipedon			[] High Organic %	in Surface Layer in Sandy Soils	
[]] Sulfid	ic Odor			[] Organic Streaki	ng in Sandy Soils	
[] Proba	ble Aquatic Mois	st Regime		[] Listed on Local	Hydric Soils List	
[[] Reducing Conditions [] Listed on National Hydric Soils List						
[X] Gleyed or Low-Chroma Colors [X] Other (explain in remarks)							
Remai	rks						
1987	1987 Manual: Hydric Soil						
Other	Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix						

Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks

[Yes] This Data Point is a Wetland



[No] Is the area a potential problem area?

Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 2

Plot ID: B

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Upland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 1

Vegetation

Common Name / CofC Grass,Smooth Brome	% Cover	Indicator
Grass Smooth Brome	100	
	100	UPL(NI)
		()
Dogwood, Grey	10	FACW-
Oak,Bur	5	FAC-
Cherry,Black	5	FACU
	Dogwood,Grey Oak,Bur Cherry,Black	Dogwood,Grey 10 Oak,Bur 5 Cherry,Black 5

[%] Species that are OBL, FACW, or FAC (except FAC-): 25

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

Remarks

Hydrology			Primary Weti	land Hydrology Indica	tors Secondary Hydrology Indicators
[] Recorded Data (describe in remarks)			[] Inund	ated	[] Oxidized root channels
[] Stream, Lake, or Tide Gage[] Aerial Photograph		ide Gage	[] Satura	ated in upper 12 inche	s [] Water-stained leaves
			[] Water	r marks	[] Local soil survey data
[]0	ther (describe in I	remarks)	[] Drift li	ines	[] FAC-Neutral test
Field Observ	vations:		[] Sedin	nent deposits	[] Other (explain in remarks)
	of Surface Wate	r(in). None	[] Draina	age patterns in wetlan	ds
•	to Free Water in	` '			
	to Saturated Soi	` '			
·					
Remarks					
Soils					
Unit Name: K	idder		Taxor	nomy: Typic Hapluda	Ifs
Drainage Clas	s: Well Drained		[] Field Observations match map		
Depth Hor.	Matrix	Mottle / 2nd Mottle)		Texture,
(in.)	Color	Color	Abundance	Contrast	Structure, etc.
0-18 1	10YR 3/2				Silt Loam
18-20 2	10YR 4/3				Silty Clay Loam
Hydric Soils	Indicators				
[] Histo	sol			[] Concretions	
[] Histic	Epipedon			[] High Organic % i	n Surface Layer in Sandy Soils
[] Sulfid	lic Odor		[] Organic Streaking in Sandy Soils		
[] Proba	able Aquatic Mois	t Regime	[] Listed on Local Hydric Soils List		
[] Reducing Conditions			[] Listed on National Hydric Soils List		
[] Gleye	ed or Low-Chroma	a Colors		[] Other (explain in	remarks)
Remarks					
4007.14	al: Non-Hydric				
1987 Manu					

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present

[No] Wetland Hydrology Present

Remarks

[No] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 20

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Upland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 9
[No] Is the area a potential problem area?	Plot ID: A

Vegetation

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

[%] Species that are OBL, FACW, or FAC (except FAC-): 20

Other: NRCS Field Indicators of Hydric Soils: No Match

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

Remarks

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

Hydrol	ogy			Primary Wetl	and Hydrology Indica	tors Secondary Hydrology Indicators
[] 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		emarks) (in.): None Pit(in.): None	[] Water [] Drift li [] Sedim	ated in upper 12 inche marks	[] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks)	
Remari	ks					
Soils	_			_		_
Unit Nar					omy: Typic Endoaq	
•		s: Poorly Draine			eld Observations mat	ch map
Depth	Hor.		Mottle / 2nd Mo			Texture,
(in.) 0-10	1	Color 10YR 2/2	Color	Abundance	Contrast	Structure, etc. Silt Loam
10-16	1 2	10 TR 2/2 10 YR 4/4				Silty Clay Loam
16-20	3	GLEY1 2.5/N				Silty Clay Loam
Hvdric	Soils	Indicators				
•	Histos				[] Concretions	
	[] Histic Epipedon		[] High Organic % in Surface Layer in Sandy Soils			
		lic Odor		Organic Streaking in Sandy Soils		,
[] Probable Aquatic Moist Regime		[] Listed on Local Hydric Soils List				
	[] Reducing Conditions			[] Listed on Nationa		
		ed or Low-Chroma	Colors		[] Other (explain in	
Remark		al: No Match				



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

Remarks

[No] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 21

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 9

[No] is the site significantly disturbed (Atypical Situation)?

[No] is the area a potential problem area?

Plot ID: B

[1-1] to the area a personal production		02			
Vegetation					
Dominant	Species	Common Name / CofC	% Cover	Indicator	
Herbaceous	1				
	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	
0/ C: 4		MOTE: Cassiss in	conital latters denote no	an nativa anasia	

% 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)

Primary Wetle	and Hydrology Indic	ators Secondary Hydrology Indicators
[X] Satura [] Water [X] Drift lir [X] Sedim	ated in upper 12 inch marks nes nent deposits	[] Local soil survey data [X] FAC-Neutral test [] Other (explain in remarks)
Taxon	omy: Typic Endoad	quolls
[] Fie	eld Observations ma	itch map
d Mottle		Texture,
Abundance	Contrast	Structure, etc.
		Silty Clay
many	prominent	Silty Clay Loam
	[] Concretions	
		in Surface Layer in Sandy Soils
	[] High Organic %	ng in Sandy Soils
	[] High Organic % [] Organic Streaki	ng in Sandy Soils Hydric Soils List
	[X] Satura [] Water [X] Drift li [X] Sedim [] Draina Taxon [] Field Mottle	Abundance Contrast

Wetland Determination

 $\textbf{[Yes]} \ \mathsf{Hydrophytic} \ \mathsf{Vegetation} \ \mathsf{Present}$

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks

[Yes] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 22

Project/Site: McGaw Park Date: July 02, 2008 Applicant/Owner: T. Wall Properties County: Dane Investigator: Jeff Kraemer State: WI [Yes] Do normal circumstances exist on the site? Community ID: Upland [No] Is the site significantly disturbed (Atypical Situation)? Station ID: 10 [No] Is the area a potential problem area? 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				Primary Wet	land Hydrology Ir	ndicators	Secondary Hydrology Indicators
[] 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		[] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands			 [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [] FAC-Neutral test [] Other (explain in remarks) 		
Rema	rks						
Soils							
Unit Na	ame: R	adford		Taxor	nomy: Fluvaque	ntic Hapludolls	
Draina	ge Clas	s: Somewhat	Poorly Drained	[X] Fi	eld Observations	match map	
Depth	Hor.		Mottle / 2nd I			Texture,	
(in.)		Color	Color	Abundance	Contrast	Structure	
0-12	1	10YR 3/2				Silt Loam	
12-18	2	10YR 3/1				Silty Clay	
18-20	3	10YR 3/2				Silty Clay	<u>'</u>
Hydri	ic Soils	Indicators					
[] Histo	sol			[] Concretions		
[] Histic	Epipedon			[] High Organi	c % in Surface L	ayer in Sandy Soils
[] Sulfid	lic Odor			[] Organic Stre	aking in Sandy	Soils
[] Proba	able Aquatic Mo	ist Regime		[] Listed on Lo	cal Hydric Soils	List
[] Redu	cing Conditions	;		[] Listed on Na	itional Hydric So	ils List
[] Gleye	ed or Low-Chro	ma Colors		[] Other (expla	in in remarks)	
Othe Hydr	Manur: NRC	usions: No Ma	ators of Hydric Soils	s: No Match			
Wetlaı	nd De	eterminatio	n				

[No] Hydrophytic Vegetation Present

[No] Hydric Soils Present

[No] Wetland Hydrology Present

Remarks

[No] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 23

Project/Site: McGaw Park Date: July 02, 2008 Applicant/Owner: T. Wall Properties County: Dane Investigator: Jeff Kraemer State: WI [Yes] Do normal circumstances exist on the site? Community ID: Wetland

[No] Is the site significantly disturbed (Atypical Situation)? Station ID: 10 [No] Is the area a potential problem area? 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-
Χ	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

Hydrology	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
[] Recorded Data (describe in remarks)	[] Inundated	[] Oxidized root channels
[] Stream, Lake, or Tide Gage	[] Saturated in upper 12 inches	[] Water-stained leaves
[] Aerial Photograph	[] Water marks	[X] Local soil survey data
[] Other (describe in remarks)	[] Drift lines	[X] FAC-Neutral test
Field Observations: Depth of Surface Water(in.): None Depth to Free Water in Pit(in.): None Depth to Saturated Soils(in.): None	[] Sediment deposits [] Drainage patterns in wetlands	[] Other (explain in remarks)

Taxonomy: Fluvaquentic Hapludolls

Remarks

Unit Name: Radford

~ ^	ıc

Drainage Class: Somewhat Poorly Drained [X] Field Observations match map Depth Hor. Matrix Mottle / 2nd Mottle (in.) Color Color Abundance Contrast Structure, etc. Silty Clay Loam 80% of Matrix 0-10 10YR 3/1 0-10 10YR 2/1 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 [] Concretions [] Histic Epipedon [] High Organic % in Surface Layer in Sandy Soils [] Sulfidic Odor [] Organic Streaking in Sandy Soils [] Probable Aquatic Moist Regime [X] Listed on Local Hydric Soils List [] Reducing Conditions [X] Listed on National Hydric Soils List [X] Gleyed or Low-Chroma Colors [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

Remarks

[Yes] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 24

Project/Site: McGaw Park Date: July 02, 2008 Applicant/Owner: T. Wall Properties County: Dane Investigator: Jeff Kraemer State: WI [Yes] Do normal circumstances exist on the site? Community ID: Upland [No] Is the site significantly disturbed (Atypical Situation)? Station ID: 11 [No] Is the area a potential problem area? Plot ID: A

Vegetation

rogotation					
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	
Χ	Arctium minus	Burdock, Common	50	UPL(NI)	
X	Solidago canadensis	Golden-Rod,Canada	30	FACU	
<u>Tree</u>					
X	Quercus macrocarpa	Oak,Bur	25	FAC-	
Χ	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	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators	
[] Recorded Data (describe in remarks)	[] Inundated	[] Oxidized root channels	
[] Stream, Lake, or Tide Gage	[] Saturated in upper 12 inches	[] Water-stained leaves	
[] Aerial Photograph	[] Water marks	[] Local soil survey data	
[] Other (describe in remarks)	[] Drift lines	[] FAC-Neutral test	
Field Observations:	[] Sediment deposits	[] Other (explain in remarks)	
Depth of Surface Water(in.): None	[] Drainage patterns in wetlands		
Depth to Free Water in Pit(in.): None			
Depth to Saturated Soils(in.): None			
Remarks			
Soils			
Unit Name: Plano	Taxonomy: Typic Argiudolls		
Drainage Class: Well Drained	[X] Field Observations match map		
Depth Hor. Matrix Mottle / 2nd Mottl	e Textu	re,	
(in.) Color Color		ture, etc.	
0-20 1 10YR 3/2	Silt Lo	oam 	
Hydric Soils Indicators			
[] Histosol	[] Concretions		
[] Histic Epipedon	[] High Organic % in Surface Layer in Sandy Soils		
[] Sulfidic Odor	[] Organic Streaking in Sandy Soils		
[] Probable Aquatic Moist Regime	[] Listed on Local Hydric Soils List		
[] Reducing Conditions	[] Listed on National Hydric Soils List		
[] Gleyed or Low-Chroma Colors	Gleyed or Low-Chroma Colors [] Other (explain in remarks)		
Remarks			
1987 Manual: Non-Hydric			
Other: NRCS Field Indicators of Hydric Soils: N	o Match		
Wetland Determination			

[No] Hydrophytic Vegetation Present [No] Hydric Soils Present

[No] Wetland Hydrology Present

Remarks

[No] This Data Point is a Wetland



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?

Cate: July 02, 2008

County: Dane

State: WI

Community ID: Wetland

[No] Is the site significantly disturbed (Atypical Situation)?

Station ID: 11
[No] Is the area a potential problem area?

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-
Χ	Lonicera x bella	Honeysuckle	5	NI
<u>Tree</u>		•		
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)

Hydro	logy			Primary Weti	land Hydrology Indic	ators Secondary Hydrology Indicators
[] 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 Remarks		[] Inundated [X] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands		[X] Local soil survey data[X] FAC-Neutral test[] Other (explain in remarks)		
Soils Unit Na	ame: R	adford		Taxor	nomy: Fluvaquentic	Hapludolls
Draina	ge Clas	s: Somewhat P	oorly Drained	[X] Fi	eld Observations ma	atch map
Depth (in.) 0-6	Hor.	Color 10YR 3/1	Mottle / 2nd M Color	ottle Abundance	Contrast	Texture, Structure, etc. Silty Clay Loam
6-18	2	10YR 3/1	10YR 5/6	many	prominent	Silty Clay Loam
Hydr	ic 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) 		
	' Manu	al: Hydric Soil S Field Indica	tors of Hydric Soils:	F6 Redox Dar	k Surface	

Wetland Determination

[Yes] Hydrophytic Vegetation Present [Yes] Hydric Soils Present

Hydric Inclusions: Otter - Match

[Yes] This Data Point is a Wetland

[Yes] Wetland Hydrology Present Remarks



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 26

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland Ag. Field
[Yes] Is the site significantly disturbed (Atypical Situation)?	Station ID: 12
[Yes] Is the area a potential problem area?	Plot ID: A

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

Planted Vegetation - Zea Mayes - not considered.

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

Hydrology	Primary Wetland Hydrolog	gy Indicators Secondary Hydrology Indicators
[] Recorded Data (describe in remarks)	[X] Inundated	[] Oxidized root channels
[] 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	[] Saturated in upper [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns	[] Local soil survey data [X] FAC-Neutral test [] Other (explain in remarks)
Soils		
Unit Name: Elburn	Taxonomy: Aquic	Argiudolls
Drainage Class: Somewhat Poorly Drained	[] Field Observati	ons match map
Depth Hor. Matrix Mottle / 2nd Mott		Texture,
(in.) Color Color	Abundance Contrast	Structure, etc.
0-28 1 10YR 3/1 28-30 2 10YR 2/1		Silty Clay Loam Silty Clay Loam
Hydric Soils Indicators		
[] Histosol	[] Concreti	ons
[] Histic Epipedon	[] High Org	ganic % in Surface Layer in Sandy Soils
[] Sulfidic Odor	[] Organic	Streaking in Sandy Soils
[] Probable Aquatic Moist Regime	[] Listed or	n Local Hydric Soils List
[] Reducing Conditions	[] Listed or	n National Hydric Soils List
[X] Gleyed or Low-Chroma Colors	[] Other (e:	xplain in remarks)
Remarks 1987 Manual: Hydric Soil Other: NRCS Field Indicators of Hydric Soils: N Hydric Inclusions: No Match	lo Match	
Wetland Determination		

[Yes] Hydrophytic Vegetation Present [Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks

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



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 27

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland Ag. Field
[Yes] Is the site significantly disturbed (Atypical Situation)?	Station ID: 12
[Yes] Is the area a potential problem area?	Plot ID: B

Vegetation

v egetation				
Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
X	Lemna minor	Duckweed,Lesser	10	OBL
Χ	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)

Hydro	logy			Primary Wet	land Hydrology India	cators S	Secondary Hydrology Indicators
[] Recorded Data (describe in remarks)		 [X] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands 			[] Oxidized root channels [] Water-stained leaves [] Local soil survey data [X] FAC-Neutral test [] Other (explain in remarks)		
Rema	ırks						
	ame: P				nomy: Typic Argiud		
Draina	ge Clas	s: Well Drained		[] Fi	eld Observations ma	atch map	
Depth (in.)	Hor.	Matrix Color	Mottle / 2nd M Color	ottle Abundance	Contrast	Texture, Structure, etc.	
0-10	1	10YR 3/1	COIOI	Abundance	Contrast	Silty Clay Loam	1
10-18	2	10YR 3/1	10YR 5/6	many	prominent	Silty Clay Loam	
Hydr	ic Soils	Indicators					
[] Histos	sol			[] Concretions		
[] Histic	Epipedon			[] High Organic %	in Surface Layer in	າ Sandy Soils
[] Sulfid	ic Odor			[] Organic Streaki	ing in Sandy Soils	
[] Proba	ible Aquatic Mois	st Regime	[] Listed on Local Hydric Soils List			
[] Redu	cing Conditions			[] Listed on Nation	nal Hydric Soils List	(
[]	(] Gleye	d or Low-Chrom	a Colors		[] Other (explain i	n remarks)	
	Manu	al: Hydric Soil S Field Indicat	tors of Hydric Soils:	No Match			

Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks



[No] Wetland Hydrology Present

Remarks

Data Form Routine Wetland Determination

Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 28

D : 1/0"			B
Project/Site: McGaw Park			Date: July 02, 2008
Applicant/Owner: T. Wall Properties			County: Dane
Investigator: Jeff Kraemer	14 - 0		State: WI
[Yes] Do normal circumstances exist on th			Community ID: UPL Ag. Field
[Yes] Is the site significantly disturbed (Aty			Station ID: 12
[Yes] Is the area a potential problem area?			Plot ID: C
Vegetation			
Dominant Species	Com	mon 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 - no	ot considered.		
Hydrology		and Hydrology Indicators	Secondary Hydrology Indicators
[] Recorded Data (describe in remarks)	[] Inund	ated	[] Oxidized root channels
[] Stream, Lake, or Tide Gage	[] Satura	ated in upper 12 inches	[] Water-stained leaves
[] Aerial Photograph	[] Water	marks	[] Local soil survey data
[] Other (describe in remarks)	[] Drift li	nes	[] FAC-Neutral test
Field Observations	[] Sedin	ent deposits	[] Other (explain in remarks)
Field Observations:	[] Draina	age patterns in wetlands	
Depth of Surface Water(in.): Non			
Depth to Free Water in Pit(in.): N			
Depth to Saturated Soils(in.): No	ne e		
Remarks			
Soils			
Unit Name: Plano	Taxor	omy: Typic Argiudolls	
Drainage Class: Well Drained	[]Fi	eld Observations match m	ар
Depth Hor. Matrix Mott	le / 2nd Mottle	Te	exture,
(in.) Color Colo			ructure, etc.
0-16 1 10YR 3/2		Si	Ity Clay Loam
16-20 2 10YR 4/4		Si	Ity Clay
Hydric Soils Indicators			
[] Histosol		[] Concretions	
[] Histic Epipedon			ırface Layer in Sandy Soils
[] Sulfidic Odor		Organic Streaking in	-
Probable Aquatic Moist Regime		[] Listed on Local Hydri	•
[] Reducing Conditions		[] Listed on National Hy	
[] Gleyed or Low-Chroma Colors			
		[] Other (explain in rem	ai no j
Remarks			
1987 Manual: Non-Hydric	Ide Celler No. 84 C.		
Other: NRCS Field Indicators of Hyd	iric Soils: No Match		
Wetland Determination			
[No] Hydrophytic Vegetation Present		[No] This Data Point is a	Wetland
[No] Hydric Soils Present			



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 29

Project/Site: McGaw Park Date: July 02, 2008 Applicant/Owner: T. Wall Properties County: Dane Investigator: Jeff Kraemer State: WI Community ID: Wetland [Yes] Do normal circumstances exist on the site?

[Yes] Is the site significantly disturbed (Atypical Situation)? Station ID: 12 [Yes] Is the area a potential problem area? Plot ID: D

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
<u>Herbaceous</u>				
	Phalaris arundinacea	Grass,Reed Canary	10	FACW+
X	Poa pratensis	Bluegrass, Kentucky	60	FAC-
Χ	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.

lydrology	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
[] 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	 [X] Inundated [] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands 	 Oxidized root channels Water-stained leaves Local soil survey data FAC-Neutral test Other (explain in remarks)
Remarks		

Depth	Hor.	Matrix	Mottle / 2nd N	Nottle		Texture,	
(in.)		Color	Color	Abundance	Contrast	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	

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

[No] Hydrophytic Vegetation Present

[Yes] This Data Point is a Wetland

[Yes] Wetland Hydrology Present

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.



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 3

Project/Site: McGaw Park Date: July 02, 2008 Applicant/Owner: T. Wall Properties County: Dane Investigator: Jeff Kraemer State: WI [Yes] Do normal circumstances exist on the site? Community ID: Wetland

[No] Is the site significantly disturbed (Atypical Situation)? Station ID: 1 [No] Is the area a potential problem area? 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)	
<u>Tree</u>					
	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)

	Primary Wetla	and Hydrology Indic	ators	Secondary Hydrology Indicators
[] 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		ted in upper 12 inch marks es ent deposits		 [] Oxidized root channels [] Water-stained leaves [] Local soil survey data [X] FAC-Neutral test [] Other (explain in remarks)
Drained		•	•	
		Contrast	Texture, Structure, etc.	
10YR 5/6 7.5YR 5/6	common many	prominent prominent	Silty Clay Loar Silty Clay	n
ors] High Organic % [] Organic Streaki [] Listed on Local [] Listed on Natior [X] Other (explain in	ng in Sandy Soils Hydric Soils List nal Hydric Soils Lis	,
	Drained Mottle / 2nd Motolor Toyre 5/6 7.5YR 5/6	marks) [] Inunda age [X] Satura [] Water [] Jorith lin [] Sedime [] Draina [] Draina [] Taxono Drained [] Fie Mottle / 2nd Mottle Color Abundance 10YR 5/6 common 7.5YR 5/6 many	marks) [] Inundated age [X] Saturated in upper 12 inch [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetla None a.): 6 b: Surface Taxonomy: Fluvaquentic Drained [] Field Observations may Mottle / 2nd Mottle Color Abundance Contrast 10YR 5/6 common prominent 7.5YR 5/6 many prominent [] Concretions [] High Organic % [] Organic Streaki jime [] Listed on Natior	marks) [] Inundated age [X] Saturated in upper 12 inches [] Water marks [] Drift lines [] Sediment deposits [] Drainage patterns in wetlands None n.): 6 b): Surface Taxonomy: Fluvaquentic Hapludolls Drained [] Field Observations match map Mottle / 2nd Mottle Texture, Color Abundance Contrast Structure, etc. 10YR 5/6 common prominent Silty Clay Loar 7.5YR 5/6 many prominent Silty Clay [] Concretions [] High Organic % in Surface Layer in Graph of Local Hydric Soils List [] Listed on Local Hydric Soils List [] Listed on National Hydric Soils List [] Listed on National Hydric Soils List [X] Other (explain in remarks)

Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 30

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Upland
[Yes] Is the site significantly disturbed (Atypical Situation)?	Station ID: 12
[Yes] Is the area a potential problem area?	Plot ID: E

Vegetation

Dominant	Species	Common Name / CofC	% Cover	Indicator
Herbaceous				
Χ	Lolium perenne	Ryegrass,Perennial	30	FACU
Χ	Poa pratensis	Bluegrass, Kentucky	70	FAC-
% Species tha	at are OBL, FACW, or FAC (except FAC-): 0	NOTE: Specie	es in capital letters denote no	on-native spec

Remarks		
H: 100% (50% = 50 / 20% = 20)		
Hydrology	Primary Wetland Hydrology Indicators	Secondary Hydrology Indicators
[] Recorded Data (describe in remarks)	[] Inundated	[] Oxidized root channels
[] Stream, Lake, or Tide Gage	[] Saturated in upper 12 inches	[] Water-stained leaves
[] Aerial Photograph	[] Water marks	[] Local soil survey data
[] Other (describe in remarks)	[] Drift lines	[] FAC-Neutral test
Field Observations:	[] Sediment deposits	[] Other (explain in remarks)
Depth of Surface Water(in.): None	[] Drainage patterns in wetlands	
Depth to Free Water in Pit(in.): None		
Depth to Saturated Soils(in.): None		
Depth to Saturated Solis(in.). None		
Remarks		
0.11.		
Soils		
Unit Name: Elburn	Taxonomy: Aquic Argiudolls	
Drainage Class: Somewhat Poorly Drained	[] Field Observations match map	
Depth Hor. Matrix Mottle / 2nd		
(in.) Color Color	Abundance Contrast Structure	·
0-16 1 10YR 2/1	Slit Loar	n pebbles
Hydric Soils Indicators		
[] Histosol	[] Concretions	
[] Histic Epipedon	[] High Organic % in Surface I	Layer in Sandy Soils
[] Sulfidic Odor	[] Organic Streaking in Sandy	Soils
[] Probable Aquatic Moist Regime	[] Listed on Local Hydric Soils	List
[] Reducing Conditions	[] Listed on National Hydric So	oils List
[] Gleyed or Low-Chroma Colors	[] Other (explain in remarks)	
Remarks		
1987 Manual: Non-Hydric		
Other: NRCS Field Indicators of Hydric Sc	ils: No Match	
Hydric Inclusions: No Match		

Wetland Determination

[No] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[No] Hydric Soils Present [No] Wetland Hydrology Present

Remarks

Sample Point located on sholder of railroad.

Problem Area/Atypical Situation: Vegetation kept mowed and soil profile contains fill.



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 4

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Upland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 2
[No] Is the area a potential problem area?	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)

п. к	J 170 (U	0% - 00.0720	70 - 20.2)				
Hydro	logy			Primary Weti	land Hydrology Ir	dicators Secondary Hydrolo	ogy Indicators
[]R	ecorde	d Data (describe	in remarks)	[] Inund	ated	[] Oxidized ro	ot channels
	[] St	ream, Lake, or Ti	de Gage	[] Satura	ated in upper 12 i	nches [] Water-stain	ed leaves
	[] Ae	erial Photograph	· ·	[] Water	marks	[] Local soil si	urvey data
	[] Ot	her (describe in r	emarks)	[] Drift li	nes	[] FAC-Neutra	al test
Field Observations:		[] Sedim	nent deposits	Other (explain	ain in remarks)		
			age patterns in w	• • • • •	,		
	•	of Surface Wate	()		3-1		
	Depth	to Free Water in	Pit(in.): None				
	Depth	to Saturated Soi	ls(in.): None				
Rema	rks						
Soils							
Unit Na	ame: K	idder		Taxor	nomy: Typic Ha p	ludalfs	
Draina	ge Clas	s: Well Drained		[X] Fi	eld Observations	match map	
Depth	Hor.	Matrix	Mottle / 2nd M	lottle		Texture,	
(in.)		Color	Color	Abundance	Contrast	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	
Hydri	ic Soils	Indicators					
1] Histos	sol			[] Concretions		
i	1 Histic	Epipedon			[] High Organic	% in Surface Layer in Sandy Soils	
•	1 Sulfid					aking in Sandy Soils	
	•	ible Aquatic Mois	t Regime			cal Hydric Soils List	
•	-	cing Conditions	50			tional Hydric Soils List	
-	-	d or Low-Chroma	a Colors		Other (expla	•	
-		d of Low Official	2 001013		[] Other (expla	ii iii remarko)	
Rema							
1987	wanu	al: Non-Hydric					

Other: NRCS Field Indicators of Hydric Soils: No Match

Wetland Determination

[No] Hydrophytic Vegetation Present

 $\textbf{[No]} \ \mathsf{Hydric} \ \mathsf{Soils} \ \mathsf{Present}$

[No] Wetland Hydrology Present

Remarks



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 5

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 2
[No] Is the area a potential problem area?	Plot ID: B

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

Hydrology		Primary Wetl	and Hydrology Indic	cators Secondary Hydrology Indicat		
[] 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		[] Water [] Drift li [] Sedim	ated in upper 12 incl marks	[X] Local soil survey data [X] FAC-Neutral test [] Other (explain in rema		
Soils Unit Na	me: R	adford		Taxon	nomy: Fluvaquentio	: Hapludolis
		s: Somewhat P	oorly Drained		eld Observations ma	-
Depth		Matrix	Mottle / 2nd M			Texture,
(in.)	1101.	Color	Color	Abundance	Contrast	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
]]]]]] Histos] Histic] Sulfid] Proba] Reduc	Indicators sol Epipedon iic Odor able Aquatic Mois cing Conditions ad or Low-Chrom	-		[] Organic Streaki [X] Listed on Local	Hydric Soils List nal Hydric Soils List
Other Hydri	Manua :: NRC c Inclu	al: Hydric Soil S Field Indicat usions: Match -		: No Match		
			-			

[Yes] Hydrophytic Vegetation Present [Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

Remarks



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? Vegetation Dominant Species	? Common Name / CofC	Date: July 02, 2008 County: Dane State: WI Community ID: Upl. Ag. Field Station ID: 3 Plot ID: A
X % Species that are OBL, FACW, or FAC (except FAC-): Remarks Active Agricultural Field. Planted Vegetation, Zea mayes, not considered.	0 NOTE: S	Species in capital letters denote non-native species.
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)
Soils Unit Name: Virgil Drainage Class: Somewhat Poorly Drained	Taxonomy: Udollic Endoaqualfs [] Field Observations match ma	
0-6 1 10YR 2/2 6-18 2 10YR 4/4 Hydric Soils Indicators [] Histosol [] Histic Epipedon [] Sulfidic Odor [] Probable Aquatic Moist Regime [] Reducing Conditions [] Gleyed or Low-Chroma Colors Remarks 1987 Manual: Other: NRCS Field Indicators of Hydric Soils	Abundance Contrast Stru Loa	face Layer in Sandy Soils andy Soils Soils List ric Soils List
Hydric Inclusions: No Match Wetland Determination		
[No] Hydrophytic Vegetation Present [No] Hydric Soils Present	[No] This Data Point is a W	/etland

 $\textbf{[No]} \ \text{Wetland Hydrology Present}$



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 7

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 3
[No] Is the area a potential problem area?	Plot ID: B

Ve	ae	tat	ion

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	J% (5	0% = 50 /20% :	= 20)						
łydrology				Primary Wet	land Hydrology Indic	cators	Secondary Hydrology Indicators		
[] 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		[] Wate [] Drift li [] Sedin	ated in upper 12 incl r marks	[] Oxidized root channels nes [] Water-stained leaves [X] Local soil survey data [X] FAC-Neutral test [] Other (explain in remarks)					
Remark		-hi-		Tours	Tomic Fodes				
Unit Nar					nomy: Typic Endoa	•			
Drainage Class: Poorly Drained			[X] Fi	[X] Field Observations match map					
Depth (in.)	Hor.	Matrix Color	Mottle / 2nd N	Mottle Abundance	Contrast	Texture, Structure, etc.			
0-4	1	10YR 3/1				Silty Clay Loar	m		
4-18	2	10YR 3/1	10YR 4/6	many	prominent	Silty Clay Loar	m		
•	Soils	Indicators			[] Concretions				

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



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 8

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Upland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 4
[No] Is the area a potential problem area?	Plot ID: A

[Yes] Do n	normal circumstances e	xist on the site?		Community ID: Upland Station ID: 4					
[No] Is the	site significantly distur	bed (Atypical Situatio	n)?						
[No] Is the	area a potential proble	em area?			Plot ID: A				
Vegetati	on								
Dominant			Comm	on Name / CofC		% Cover	Indicator		
Herbaceo						70 0010.			
	Cirsium arvense		Thistle	Creeping		5	FACU		
X	Phalaris arundina			Reed Canary		100	FACW+		
% Species	s that are OBL, FACW,	or FAC (except FAC-): 100	N	NOTE: Species in capita	I letters denote no	n-native species		
Remarks	i e								
H: 105%	% (50% = 52.5 / 20%	o = 21)							
Hydrolog	gy		Primary Wetlan	d Hydrology Indic	ators Seco	ndary Hydrology li	ndicators		
	orded Data (describe in	romarke)	[] Inundate			Oxidized root ch			
	•	,		d in upper 12 inch		-			
=] Stream, Lake, or Tid	e Gage	= =		-] Water-stained le			
_] Aerial Photograph		[] Water m		-	[] Local soil survey data			
L] Other (describe in re	marks)	[] Drift line		-	() FAC-Neutral tes			
Field Ob	servations:		[] Sedimer	•	-] Other (explain in	remarks)		
D	epth of Surface Water(in.): None	[] Drainage	e patterns in wetla	ands				
	epth to Free Water in F	•							
	epth to Saturated Soils	` '							
	.,	()							
Remarks	3								
Soils			_						
Unit Name	e: Kidder		Taxonor	Taxonomy: Typic Hapludalfs					
Drainage (Class: Well Drained		[] Field	[] Field Observations match map					
Depth H	Hor. Matrix	Mottle / 2nd Mot	tle		Texture,				
(in.)	Color	Color	Abundance (Contrast	Structure, etc.				
	1 10YR 2/2				Silt Loam				
6-18 2	2 10YR 4/2	10YR 4/6	common	prominent	Silt Loam				
Hydric S	oils Indicators								
•	listosol		Г] Concretions					
	listic Epipedon		-	[] High Organic % in Surface Layer in Sandy Soils					
			-						
[] Sulfidic Odor			-	[] Organic Streaking in Sandy Soils					
[] Probable Aquatic Moist Regime			-	[] Listed on Local Hydric Soils List					
[] Reducing Conditions			-	[] Listed on National Hydric Soils List					
[X] G	Bleyed or Low-Chroma	Colors	[)	[] Other (explain in	n remarks)				
Remarks	3								
	file appears to be m	ixed and disturbed.							
1987 M	anual: Hydric Soil								

Other: NRCS Field Indicators of Hydric Soils: F3 Depleted Matrix **Wetland Determination**

[Yes] Hydrophytic Vegetation Present

[No] This Data Point is a Wetland

[Yes] Hydric Soils Present [No] Wetland Hydrology Present

Remarks

Sample Point is located on a steep slope.



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: 9

Project/Site: McGaw Park	Date: July 02, 2008
Applicant/Owner: T. Wall Properties	County: Dane
Investigator: Jeff Kraemer	State: WI
[Yes] Do normal circumstances exist on the site?	Community ID: Wetland
[No] Is the site significantly disturbed (Atypical Situation)?	Station ID: 4
[No] Is the area a potential problem area?	Plot ID: B

Investigator:	Jeff Kraemer			State: WI					
[Yes] Do normal circumstances exist on the site?					Community ID: Wetland				
[No] Is the sit	te significantly disturbe	ed (Atypical Situatio	n)?	Station ID: 4					
[No] Is the ar	ea a potential problen	n area?			Plot ID:	: B			
Vegetation	<u> </u>								
Dominant	Species		Com	mon Name / Cof		% Cover	Indicator		
Herbaceous									
X	Phalaris arundinac	ea	Gras	s,Reed Canary		100	FACW+		
<u>Tree</u>	A		D	Elden		00	E 4 (0) 4 /		
X % Species th	Acer negundo nat are OBL, FACW, o	r FAC (except FAC		Elder	NOTE: Species in	30 FACW- cies in capital letters denote non-native species.			
Remarks	iat are obe, i nov, o	11710 (except 1710). 100		NOTE: Openes in	capital letters deflote fle	iii iidiive species.		
	50% = 50 / 20% = 2	20) T. 20% (50%	- 15 /20% - 6	2)					
·		20) 1. 30% (50%	- 15/20% - 0))					
Hydrology	/		Primary Wet	and Hydrology Ind	dicators	Secondary Hydrology I	ndicators		
[] Record	ed Data (describe in r	emarks)	[] Inund	ated		[] Oxidized root ch	annels		
[]	Stream, Lake, or Tide	Gage	[X] Satura	ated in upper 12 ir	nches	[] Water-stained leaves			
[]	Aerial Photograph		[] Water	marks		[] Local soil survey data			
[]	Other (describe in rem	arks)	[] Drift li	nes		[X] FAC-Neutral test			
Field Obse	nyations:		[X] Sedin	nent deposits		[] Other (explain in	remarks)		
	th of Surface Water(in). None	[] Drainage patterns in wetlands						
•	th to Free Water in Pit	,							
•	th to Saturated Soils(i	` '							
БСР	in to Cataratea Cons(ii	ii.). Gariacc							
Remarks									
Soils			_						
Unit Name:			Taxonomy: Fluvaquentic Hapludolls						
Drainage Cla	ss: Somewhat Poorl	y Drained	[] Fi	eld Observations	match map				
•	r. Matrix	Mottle / 2nd Mot			Texture,				
(in.)	Color	Color	Abundance	Contrast	Structure, etc.				
0-16 1	10YR 3/1	10YR 4/6	common	prominent	Silty Clay Loa	m			
16-18 2	GLEY1 2.5/N				Silty Clay				
Hydric Soil	s Indicators								
[] Hist	osol			[] Concretions					
[] Hist	ic Epipedon		[] High Organic % in Surface Layer in Sandy Soils						
[] Sulf	idic Odor		[] Organic Streaking in Sandy Soils						
[] Prob	oable Aquatic Moist R	egime	[] Listed on Local Hydric Soils List						
[]Red	ucing Conditions			[] Listed on National Hydric Soils List					
[X] Gley	ed or Low-Chroma C	olors		[X] Other (explain in remarks)					
Remarks									
	ual: Hydric Soil								
	CS Field Indicators	of Hydric Soils: F	6 Redox Dar	k Surface.					
	lusions: No Match	7							

Wetland Determination

[Yes] Hydrophytic Vegetation Present

[Yes] Hydric Soils Present

[Yes] Wetland Hydrology Present

[Yes] This Data Point is a Wetland



Job Number: 008-0106-01

Town/Village/City: City of Fitchburg

Wetland Data Point: P1

Nout	IIIE V	velianu bele	iiiiiiauoii			Wottana Batt	4 1 Ollite: 1 1		
Project	/Site: I	McGaw Park				Date: July	02, 2008		
Applicant/Owner: T. Wall Properties						County: Da			
Investigator: Jeff Kraemer					State: WI				
[Yes] Do normal circumstances exist on the site?						Community	ID: Upl. Ag. Field		
[Yes] Is	s the sit	te significantly dist	turbed (Atypical Situa	tion)?		Station ID:			
[Yes] Is	s the ar	ea a potential pro	blem area?	•		Plot ID:			
Veget	ation								
Domin		Species		Com	mon Name / CofC		% Cover	Indicator	
Herbaceous				Common Nume / Colo			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
X		Zea mayes		Corr	ı		30	NI	
-		at are OBL, FACW	/, or FAC (except FAC	C-): 0	N	IOTE: Species in cap	ital letters denote no	n-native species.	
Rema									
		cultural Field.							
Hydro	logy			Primary Wetl	and Hydrology Indic	ators Se	condary Hydrology I	ndicators	
[X] R	ecorde	d Data (describe i	in remarks)	[] Inunda	ated		[] Oxidized root ch	annels	
	[] S	tream, Lake, or Ti	de Gage	[] Satura	ated in upper 12 inch	ies	[] Water-stained le	eaves	
	[X] A	erial Photograph		[] Water	marks		[] Local soil survey	y data	
	[]0	ther (describe in r	remarks)	[] Drift li	nes		[] FAC-Neutral tes	t	
Field	Ohoon	vations:		[] Sedim	ent deposits		[] Other (explain in	remarks)	
rieiu		vations:	r(in): NA	[] Draina	age patterns in wetla	nds			
		n of Surface Water n to Free Water in							
	•	n to Saturated Soi	,						
	Бери	i to Gaturated Gor	13(111.)10						
Rema	ırks								
Soils									
Unit Na	ame: R	Ringwood		Taxon	omy: Typic Argiud	olls			
Draina	ge Clas	ss: Well Drained		[] Fi	eld Observations ma	tch map			
Depth	_	Matrix	Mottle / 2nd Mo	• • • • • • • • • • • • • • • • • • • •					
(in.)		Color	Color	Abundance	Contrast	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 6			
14-18	4	10YR 3/2	10YR 5/2	common	prominent	Silty Clay Loam 4	0% of Matrix		
Hydr	ic Soils	Indicators							
[] Histo	sol			[] Concretions				
[] Histic Epipedon					[] High Organic % in Surface Layer in Sandy Soils				
[] Sulfidic Odor					[] Organic Streaking in Sandy Soils				
[] Probable Aquatic Moist Regime					[] Listed on Local Hydric Soils List				
[] Reducing Conditions				[] Listed on National Hydric Soils List					
[] Gleye	ed or Low-Chroma	a Colors		[] Other (explain in	remarks)			
Rema		ıal: Non-Hyric							
			ors of Hydric Soils:	No Match					
		etermination							
		hytic Vegetation F			[No] This Data Poin	t is a Wetland			
[INO]		, ao vogetation r	1000111		[110] This Data i Oili	t io a vvolidila			

[No] Hydric Soils Present

[No] Wetland Hydrology Present

APPENDIX B SITE PHOTOGRAPHS



W-3; Facing NW.



W-3; Facing SW.



 $\begin{array}{c} \mbox{Un-named triburary to Swan Creek which flows through W-1.} \\ \mbox{Near P3; Facing NE.} \end{array}$



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.



 $\begin{array}{c} \mbox{Un-named triburary to Swan Creek which flows through W-1.} \\ \mbox{Near P10; Facing SE.} \end{array}$



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.