

Park & Open Space Proposal

North McGaw Park Neighborhood

**Fitchburg Parks, Recreation
& Forestry Department**

Ed Bartell
Dana Dentice

June 19, 2008

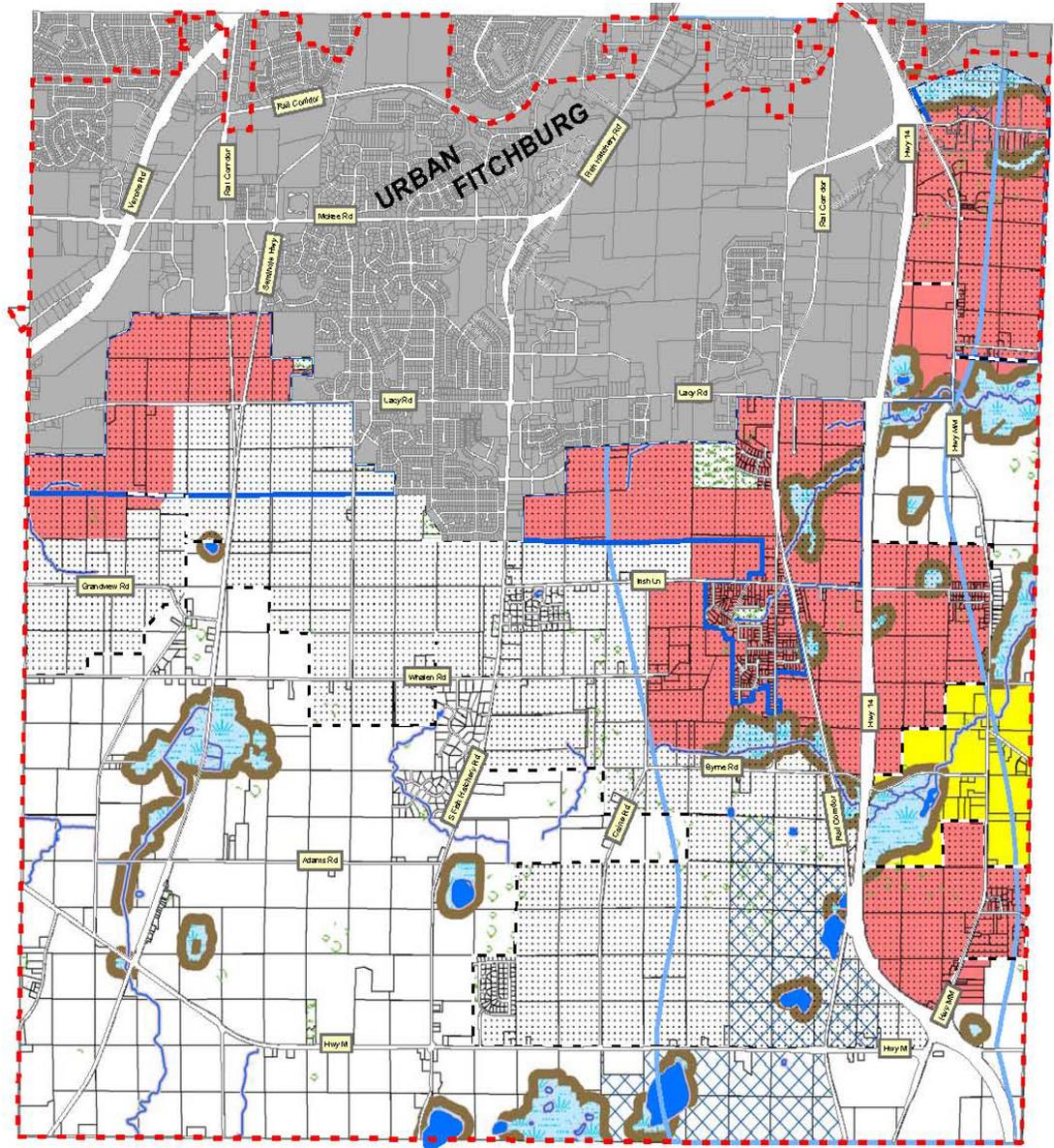
Overview

- Goals
- Initial Concept
- Intro to the Planning Model
- Methodology
- Benefits
- Implementation
- Community Response

Goals

1. To identify and bring awareness to Fitchburg's valuable resources
2. To identify lands to be considered for protection and future parkland
3. To give citizens an opportunity to weigh-in on the decision of what future parkland and open space should/could be
4. To guide responsible urban growth and planning

Future Urban Development



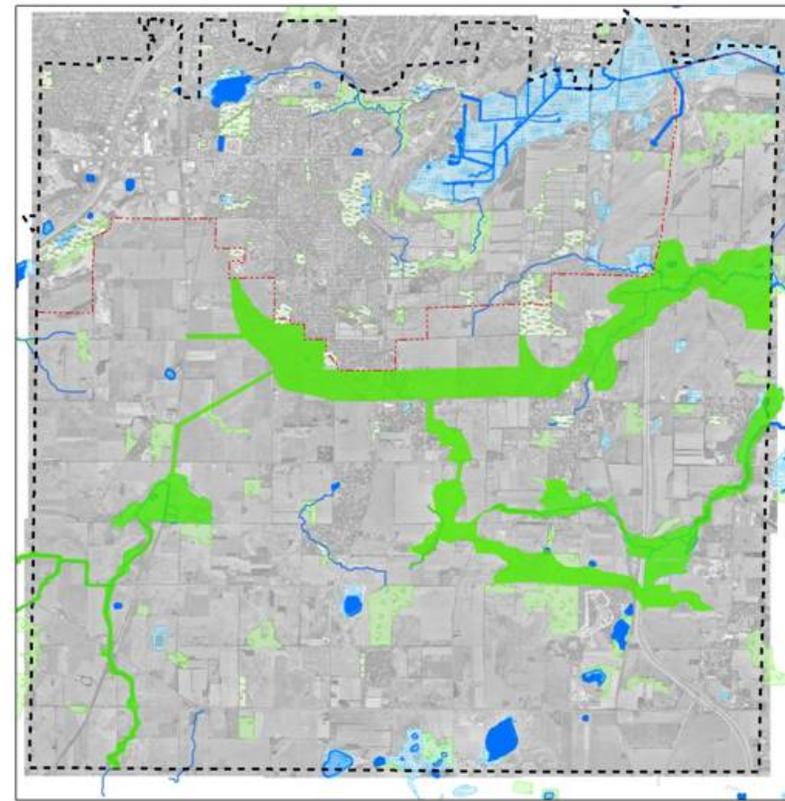
Urban Growth Boundary 3,378 acres	Wetlands	Streams	Institutions	Present FUDA Neighborhoods
Special Study Area 348 acres	Wetland Buffer - 300'	Open Water	Woods	1 Mile to Rail Corridor
	Parks	Water Buffer - 75'	Possible Sewer Interceptor	City Boundary

Prepared: September 18, 2007
 Source Data: Dane County LIO & City of Fitchburg
 0 1250 2500 5000 Feet



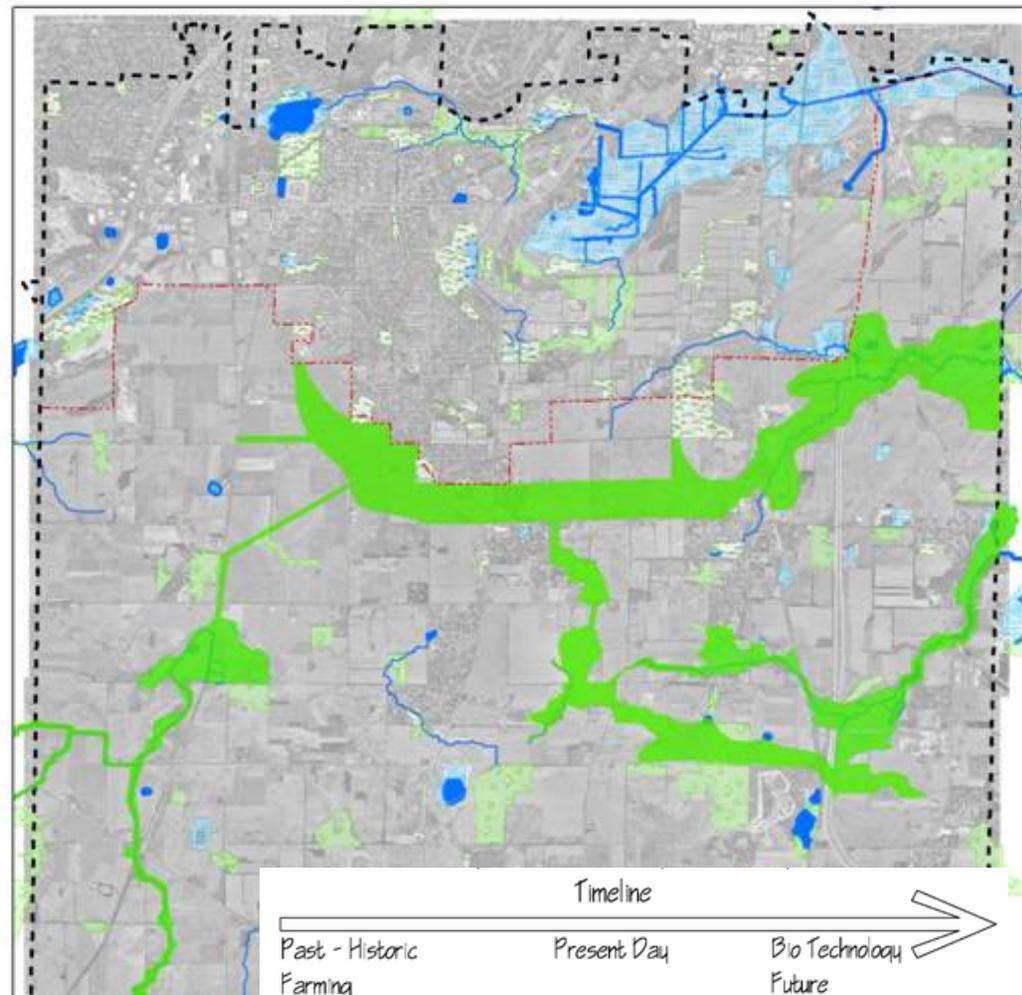
Initial Concept

- Developed by:
 - Tom Hovel (City Planner)
 - Jim Christoph (former Parks Director)
- Goals for the concept were to plan for...
 - a greenbelt at the southern boundary of the current urban service area
 - a buffer between current and future development
 - a system of linked parks and open space to protect and enhance the natural areas of Fitchburg for future generations while providing more recreational facilities



Themes

- History of Agriculture in Fitchburg
- Park & Open Space Corridors
 - Diverse recreational opportunities



Planning Model

- Original proposal considered the importance of significant geologic, environmental, and historical attributes
- More research regarding those and other characteristics led to....

...a **Resource-based Planning Model**

Purpose of the Model

- To identify all **natural** (environmental) and **cultural** resources within Fitchburg
- To determine the most sensitive areas needing protection

Analysis Criteria

Environmental Resources

- **Vegetation**
 - Forest
 - Heritage oaks
 - Potential specimens
 - Potential oak savanna remnants
- **Steep Topography**
- **Wetlands**
- **Hydric Soils**
- **Water Resources**
 - Streams, channels
 - Springs
- **Public lands**
 - City, County, State, Federal
- **Dane County Environmental Corridors**
- **Natural Infiltration (groundwater recharge)**
- **Productive soils**
- **DNR's Natural Heritage Inventory**

Analysis Criteria

Cultural/Historical Resources

- **Indian Archaeology**
 - Trails
 - Mounds
 - Camps
- **Historic Buildings/Sites**
 - National Register of Historic Places
 - Historic schoolhouses
 - Fitchburg landmarks
 - WI Arch. & History Inventory
- **Historic Lead Mines/Quarries**
- **Recreational Trails**
- **Railroad Corridors**
- **Existing Schools**
- **Building Footprints**
- **Rights of Way**
- **Scenic Resource Inventory**

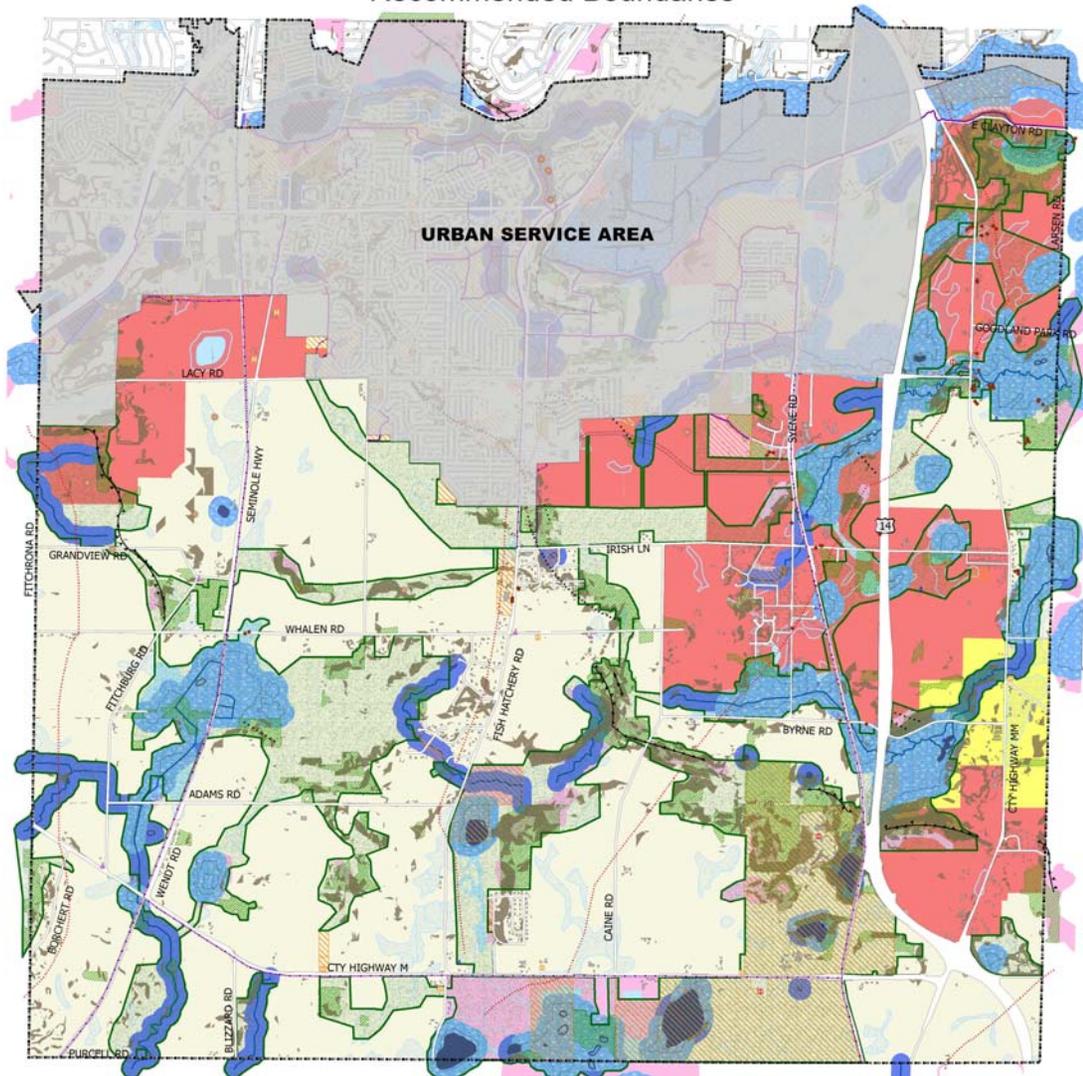
Development of the Proposal

- Developed with resource-based planning model
 - Overlay of all resources
 - Identification of areas outside of the urban service area that should be protected from development
 - ↳ Ultimately, the formation of environmental and cultural resource corridors
- Future Objectives
 - Integration of Proposal into the City's Park & Open Space Plan (requires approval by Common Council)
 - Phasing of Proposal into the Comprehensive Plan as areas are implemented

Conceptual Park & Open Space Proposal

Recommended Boundaries

Amended 5/1/08



Criteria

- Moraine Edge Park (initial concept)
- Water features, wetlands, and buffers
- Woodlands
- Public lands
- Dane County environmental corridors
- Areas with multiple resources
- Linkages to provide wildlife corridors
- Single resources adjacent to areas listed above
- Exclusion of most private structures

Environmental Resources

Dane County Env. Corridor	Wetland w/ 300-ft Buffer	Possible Hydric Inclusion	Hydric Soils	Open Water	300-ft Water Buffer	Streams/Water
Public Land	Forest	+12% Slopes	Small Moraine	Medium Moraine	Spring	Heritage Oak Tree

Cultural/Historical Resources

Indian Trail	Historic Schoolhouse	Current School	Historic Lead Mine	Historic Stone Quarry	Historic Building/Site	National Register of Historic Places
Mound Group	Indian Camp	Building Footprint	Scenic Resource			

Proposed Park & Open Space

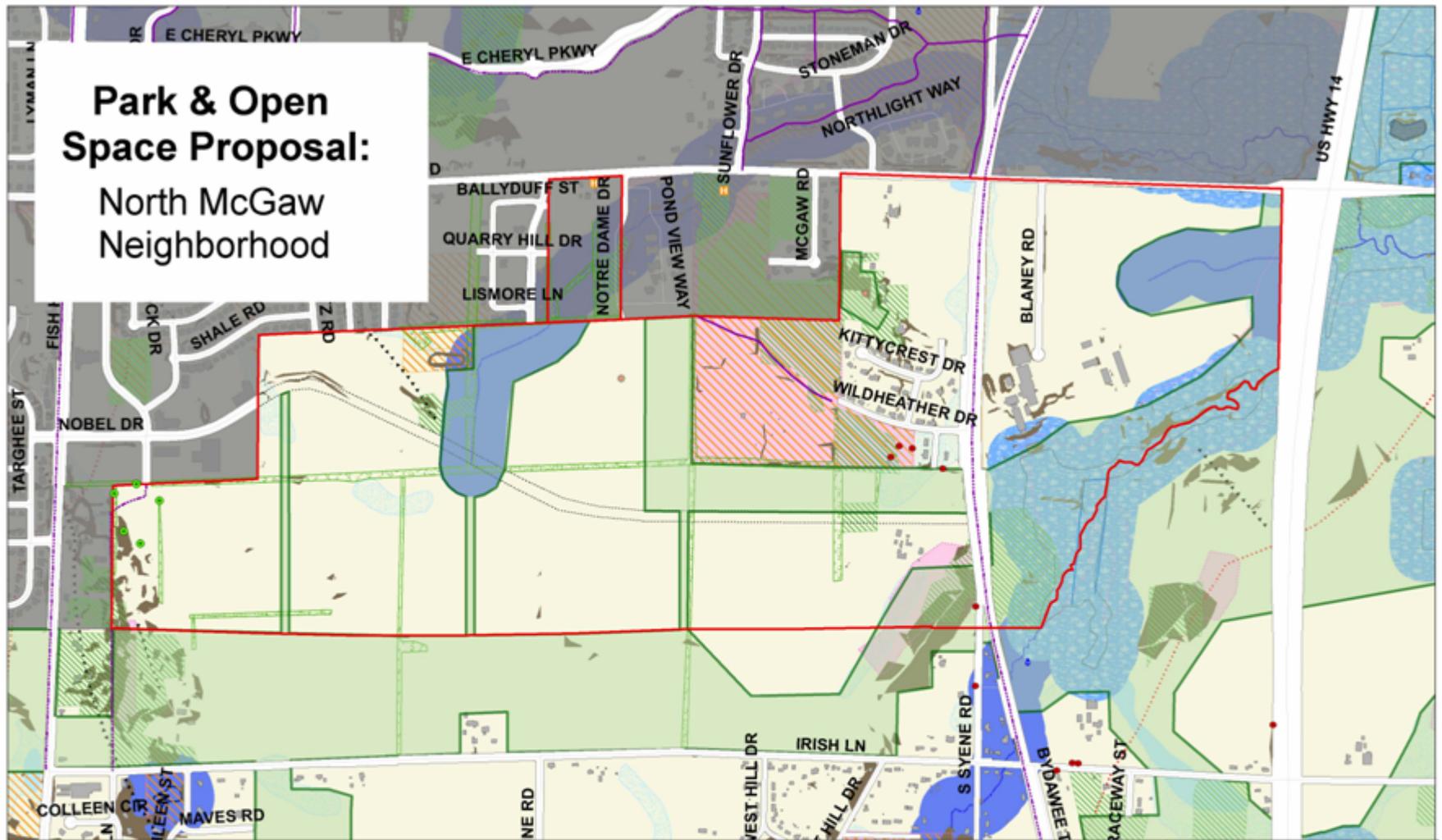
Proposed Park & Open Space	Urban Growth Boundary (50yr)	Study Area	Right of Way	City Limits	Existing Recreational Trail	Proposed Rec. Trail	Proposed Road
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Data Sources:
 Scott, 1978; Allison, 2001; Fitchburg Parks Dept., 2007, 2008; Dane County LIO, 2004, 2005; WDNR, 1996, 2004; Dane County & NRCS, 2005; Macholl (W Wildlife Federation), 2007; Valmer, 1973; Brown & W.W. Hixon & Co., 1924 (W Historical Society); Fitchburg Landmarks Preservation Commission, 1999; Fitchburg Bicentennial Committee, 1978; Madison MPO, 2008; DCRPC, 2006; Kinney, 1993; Fitchburg Planning Dept., 2004, 2007; CARPC, 2006, 2008; Natural Resources Consulting, 2007; Wisconsin Geological & Natural History Survey, 1997; Dane County CAPD, 2006; Fitchburg Public Works, 2007; Fitchburg Citizens, 2008.

Fitchburg Parks, Recreation & Forestry Department
 May 2008

Park & Open Space Proposal: North McGaw Neighborhood



Environmental Resources

- Env. Corridor (Dane County)
- +12% Slopes
- Wetland w/ 300-ft Buffer
- Hydric Soils
- Possible Hydric Inclusion
- Open Water
- 300-ft Water Buffer
- Water/Stream
- Public Land
- Forest
- Tree Line
- Small Moraine
- Medium Moraine
- Spring
- Heritage Oak Tree
- Potential Specimen Tree

Cultural Resources

- Indian Trail
- Indian Mounds
- Indian Camp
- Building Footprint
- Scenic Resource
- Historic Schoolhouse
- Current School
- Historic Lead Mine
- Historic Stone Quarry
- Historic Building/Site
- National Register of Historic Places
- Proposed Park & Open Space
- North McGaw Neighborhood
- Urban Fitchburg
- City Limits
- Right of Way
- Potential Road
- Existing Rec. Trail
- Proposed Rec. Trail

Feet
 0 375 750 1,500

Data Sources:
 Scott, 1976. Alison, 2001. Fitchburg Parks Dept., 2007, 2008. Dane County LJO, 2004, 2005. WDNR, 1986, 2004. Dane County & NRCS, 2005. Warner, 1873. Brown & W.W. Hixon & Co., 1924 (WI Historical Society). Fitchburg Landmarks Preservation Commission, 1999. Madison MPO, 2006. DCRPC, 2006. Fitchburg Planning Dept., 2004, 2007. CARPC, 2006, 2008. Natural Resources Consulting, 2007. Dane County CAPD, 2006. Fitchburg Public Works, 2007. Fitchburg Citizens, 2008.

Fitchburg Parks, Recreation & Forestry Department
 May 22, 2008

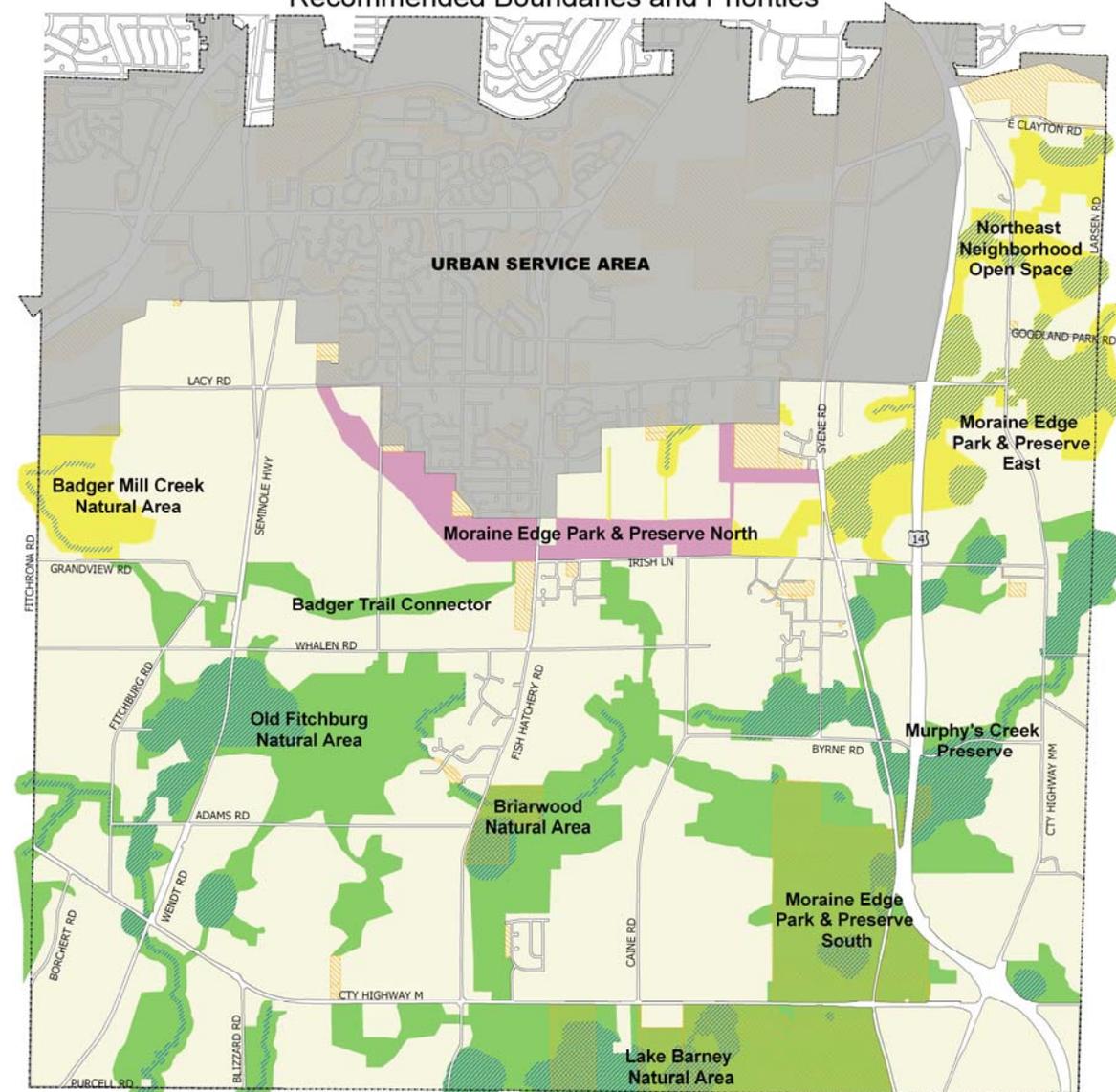
Conceptual Park & Open Space Proposal

Recommended Boundaries and Priorities

Amended 5/1/08

Priority Levels

- Priority 1
- Priority 2
- Priority 3



Legend

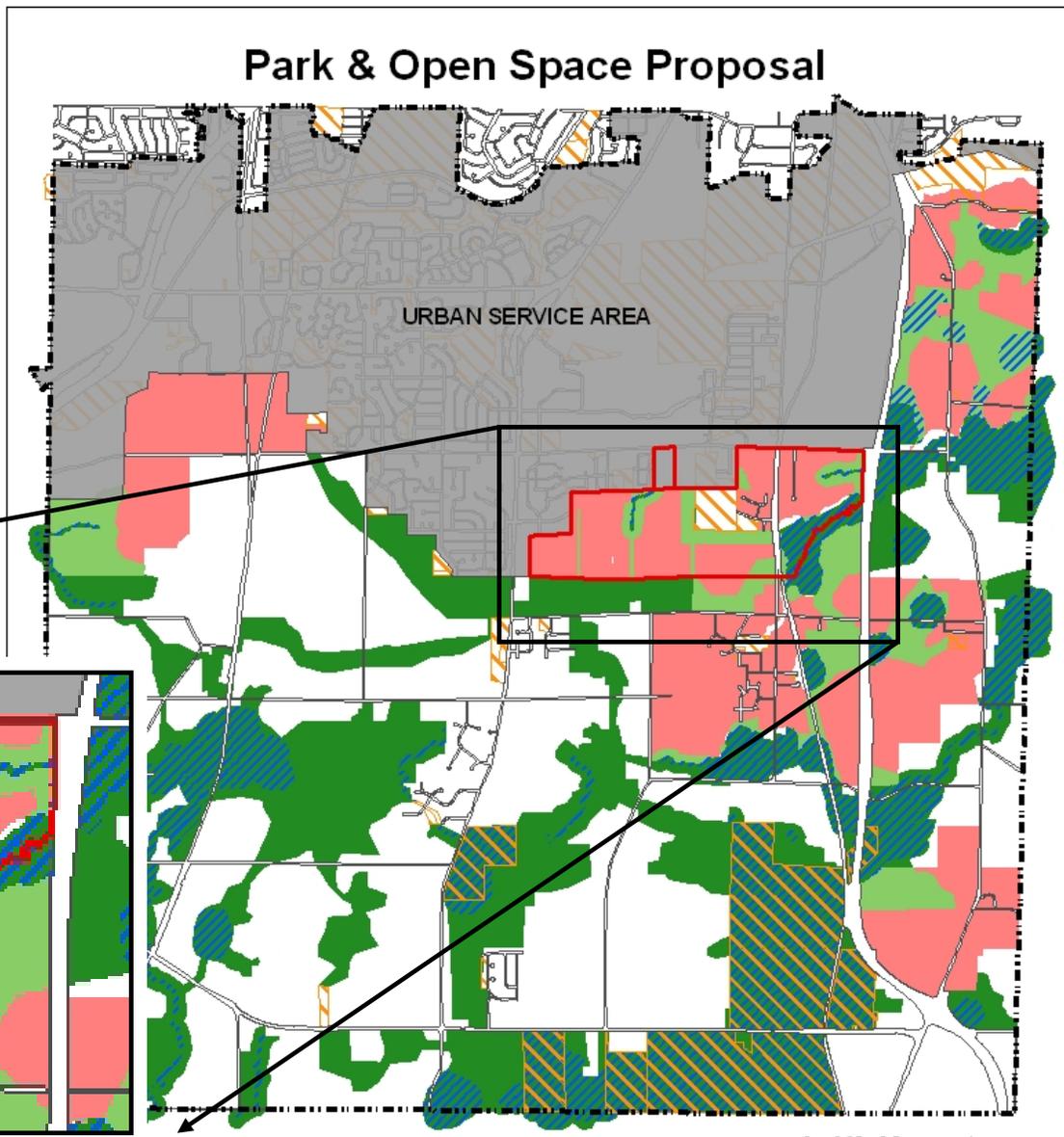
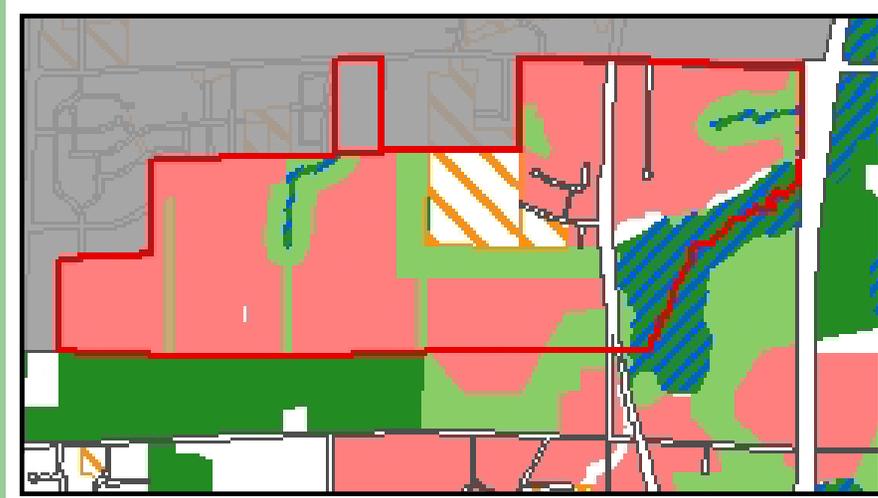
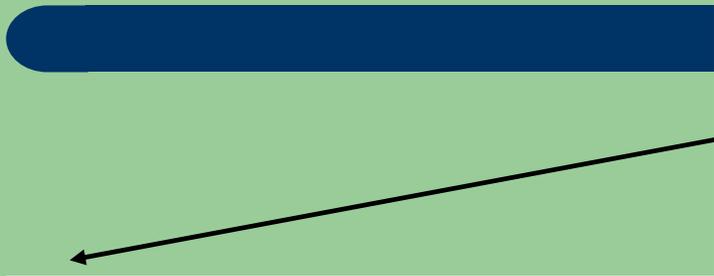
- | | |
|----------------|---------------------------------------|
| Priority Level | Public Land |
| 1 | Protected Water, Wetland, and Buffers |
| 2 | City Limits |
| 3 | Right of Way |

0 1,250 2,500 5,000 Feet



Breakdown of Land

Developable vs. Undeveloped
Public and Protected Lands



- City Limits
- Right of Way
- ▨ Protected Land
- ▨ Public Land
- Proposed Park & Open Space (Urban Growth Area)
- Proposed Park & Open Space (Undevelopable)
- Urban Growth Boundary

0 0.25 0.5 1 Miles



City of Fitchburg Parks,
Recreation & Forestry Department

June 5, 2008

Benefits

- Preservation and enhancement of natural resources
 - Wildlife corridors
 - Water resources
 - Sensitive environmental areas
 - Productive soils
- Showcase of Fitchburg's historical and cultural features
- Preservation of Fitchburg's rural character
- Diverse recreational opportunities

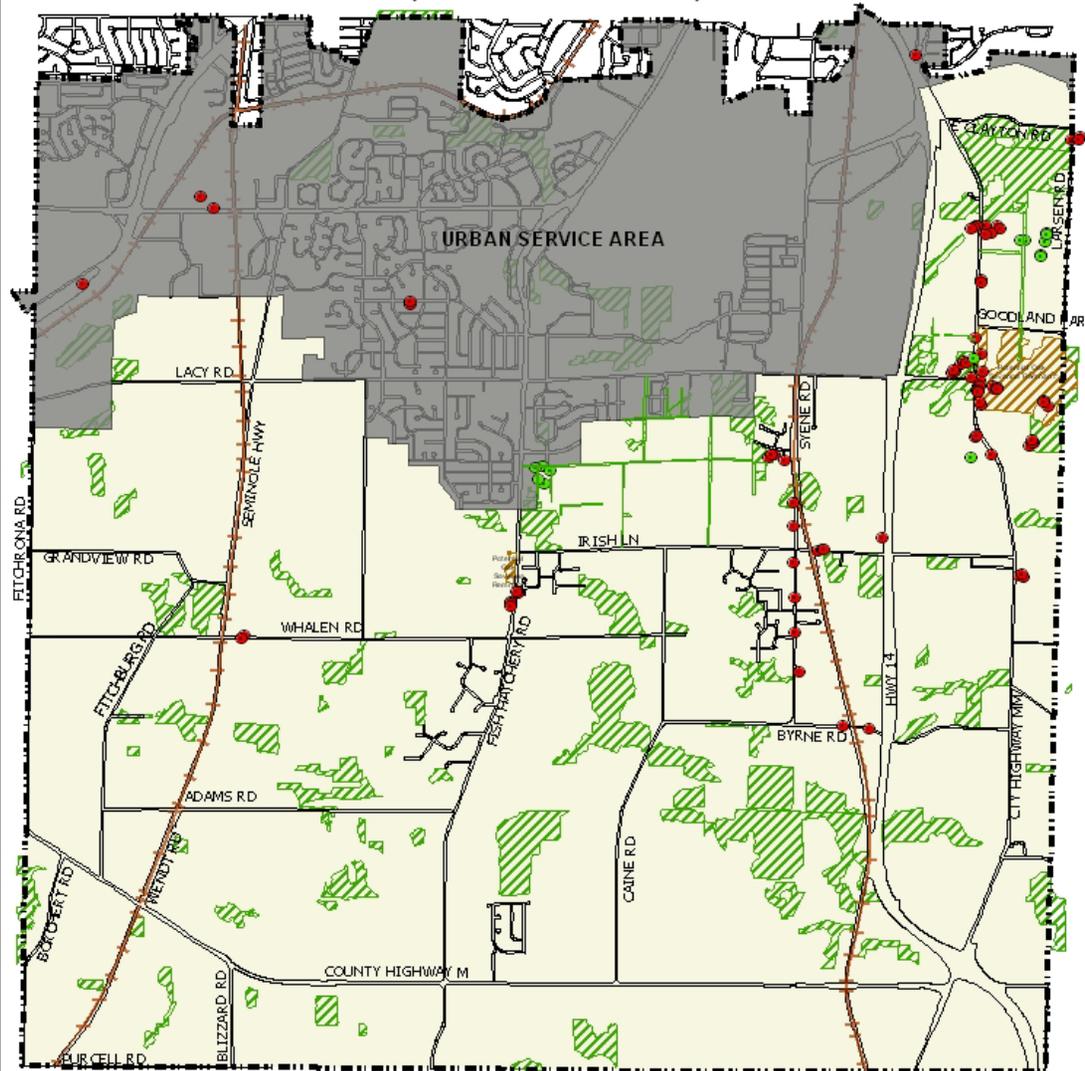
Implementation

	Agree	Neutral	Disagree
● Acquisition			
– Purchase of land	100%		
– Landowner donation	100		
– Park dedication	100		
– Purchase or transfer of development rights	62.5	37.5%	
– Conservation easements	75	25	
● Funding			
– County, State, Federal Grants	100		
– Recreational user fee	50	12.5	37.5%
– City funds			
● Property tax increase	37.5	50	12.5
● Park dedication \$ buys land	75		25
● Park dedication \$ buys easements	75	25	

Questions or Comments?

See Parks & Forestry website for more details and maps

Vegetation (Forest Resources)



Legend

- Heritage Oak Tree (+200 years)
- Potential Specimen Trees
- Vegetation Corridor (Tree Line)
- Forest
- Potential Oak Savanna Remnant
- City Limits
- Railroad Corridor
- Right of Way

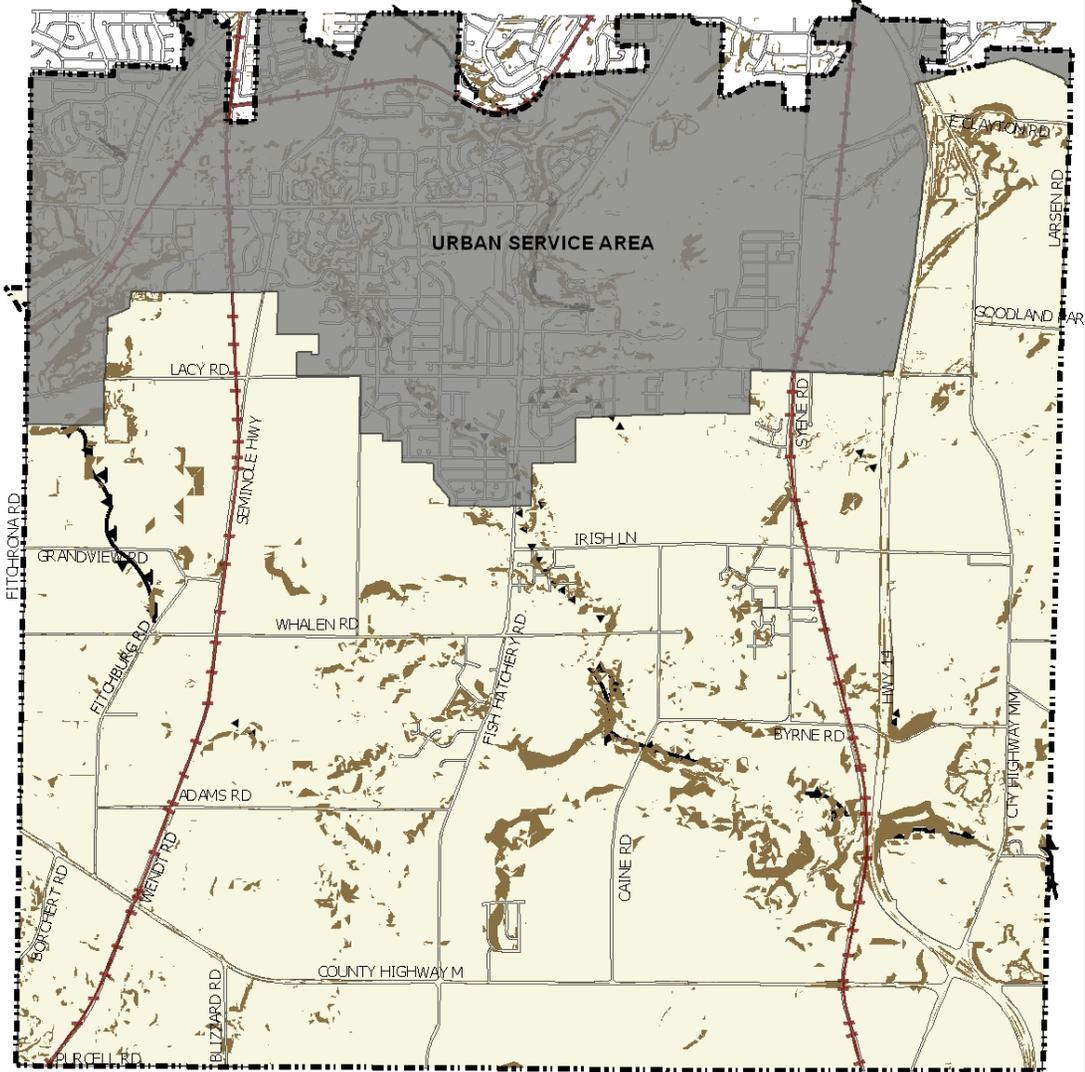


* Further study needed on potential remnants.

Data Sources:
 Capital Area Regional Planning Commission, Feb. 2008
 (data derived from 1990 aerial photography).
 Fitchburg Parks Department, 2008.
 Scott, 1976; Alison, 2001.

Map prepared by Fitchburg Parks Department,
 Aug. 2008.

Steep Topography



Legend

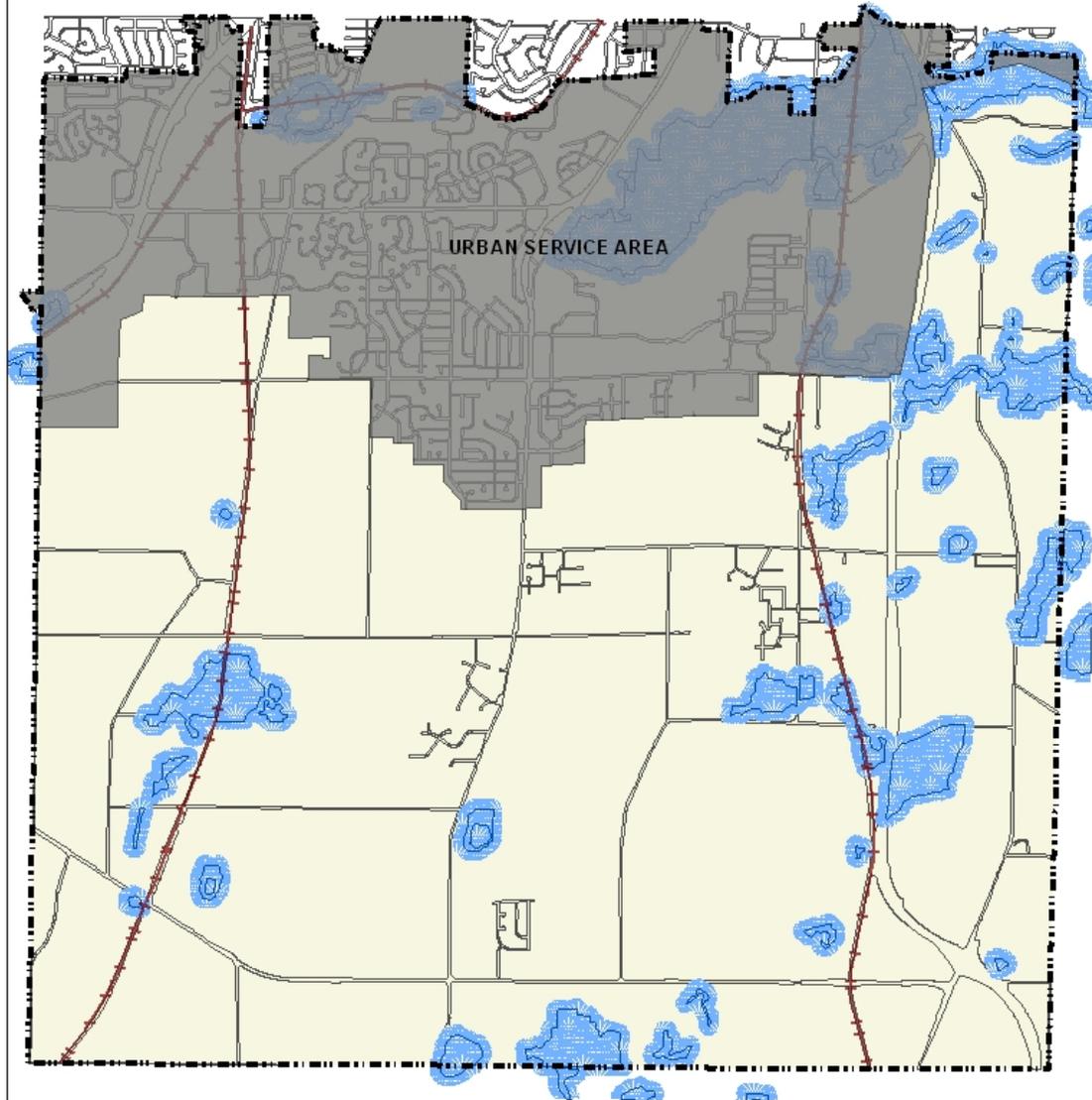
- Slopes 12% and Greater
- Small Moraine
- Medium Moraines
- City Limits
- Railroad Corridor
- Right of Way



Data Sources:
 City of Fitchburg Parks Dept., 2007;
 Dane County LIO, 2005;
 Wisconsin Geological & Natural History Survey, 1987.

Map prepared by Fitchburg Parks Department,
 February 2008

Wetlands



Legend

-  Wetland with 300-ft Buffer
-  City Limits
-  Railroad Corridor
-  Right of Way

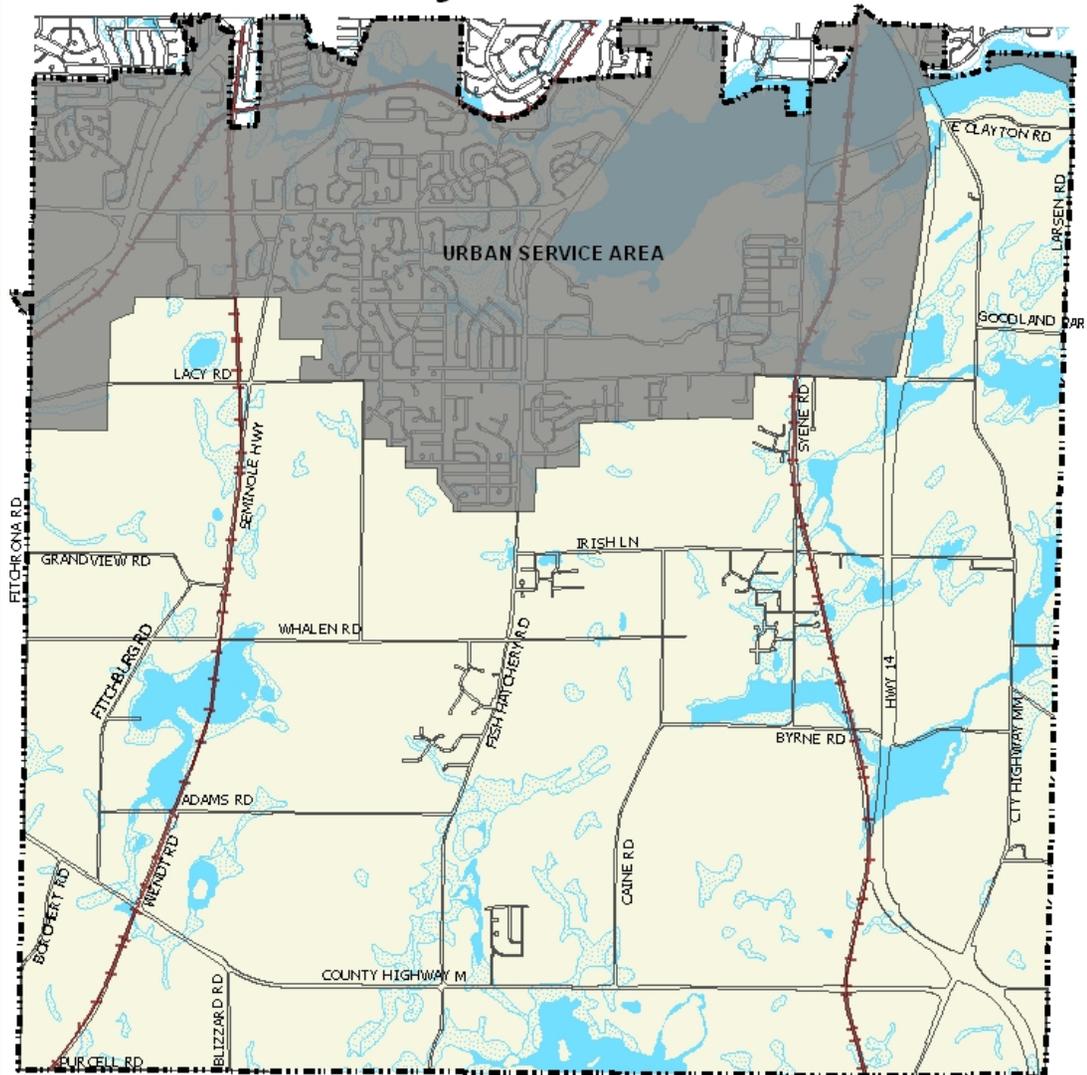
0 1,250 2,500 5,000
Feet



Data Sources:
Capital Area Regional Planning Commission, 2008
(Derived from 1995 W/DNR dataset).
Natural Resources Consulting, 2007.

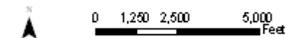
Map prepared by Fitchburg Parks Department,
June 2008

Hydric Soils



Legend

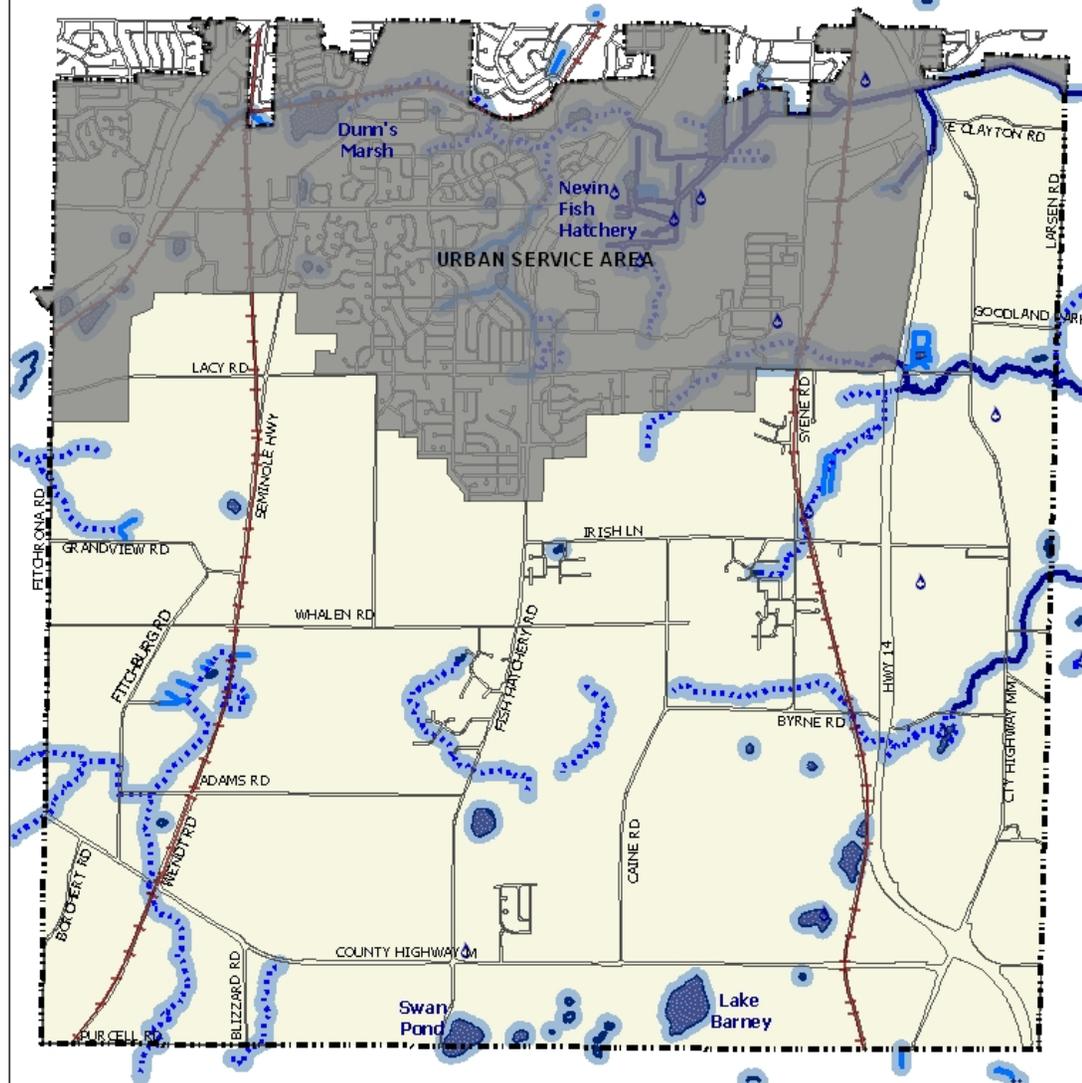
-  Hydric Soil
-  Possible Hydric Inclusion
-  Right of Way
-  City Limits
-  Railroad Corridor



Data Sources:
Dane County, 2005.
United States Dept. of Agriculture,
Natural Resources Conservation Service,
2005-2006.

Map prepared by Fitchburg Parks Department,
May 2008

Water Resources



Legend

- | | | |
|---|--|---|
|  Open Water |  Channel |  Right of Way |
|  300-Foot Buffer |  Intermittent Water |  City Limits |
|  Spring |  Perennial Stream |  Railroad Corridor |

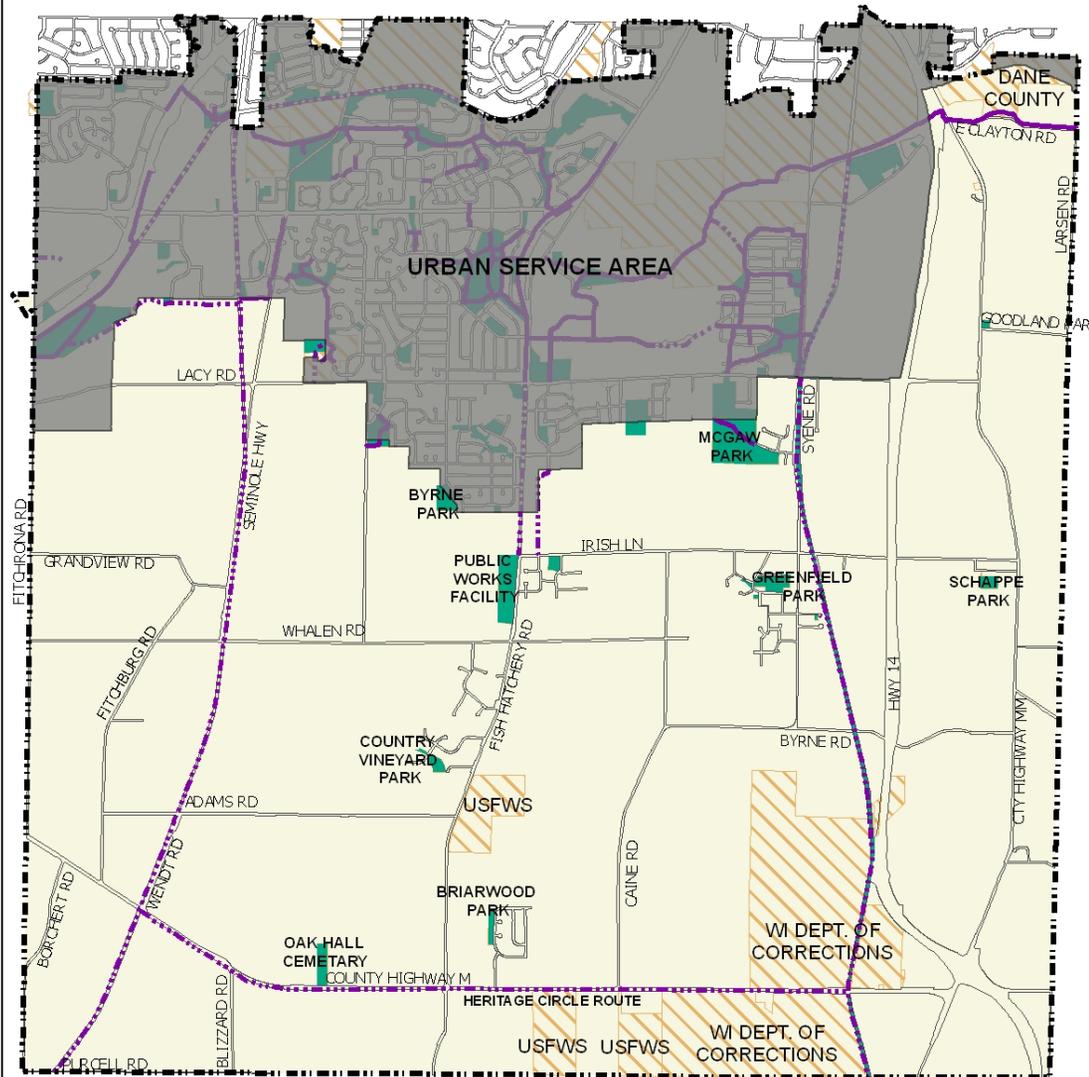
0 1,250 2,500 5,000 Feet



Data Sources:
 Capital Area Regional Planning Commission,
 February 2008 (Dataset based on 1990 aerial
 photography interpreted by Dane County RPC),
 Macholl (Wildlife Federation), 2007.

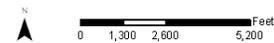
Map prepared by Fitchburg Parks Department,
 June 2008

Public Lands



Legend

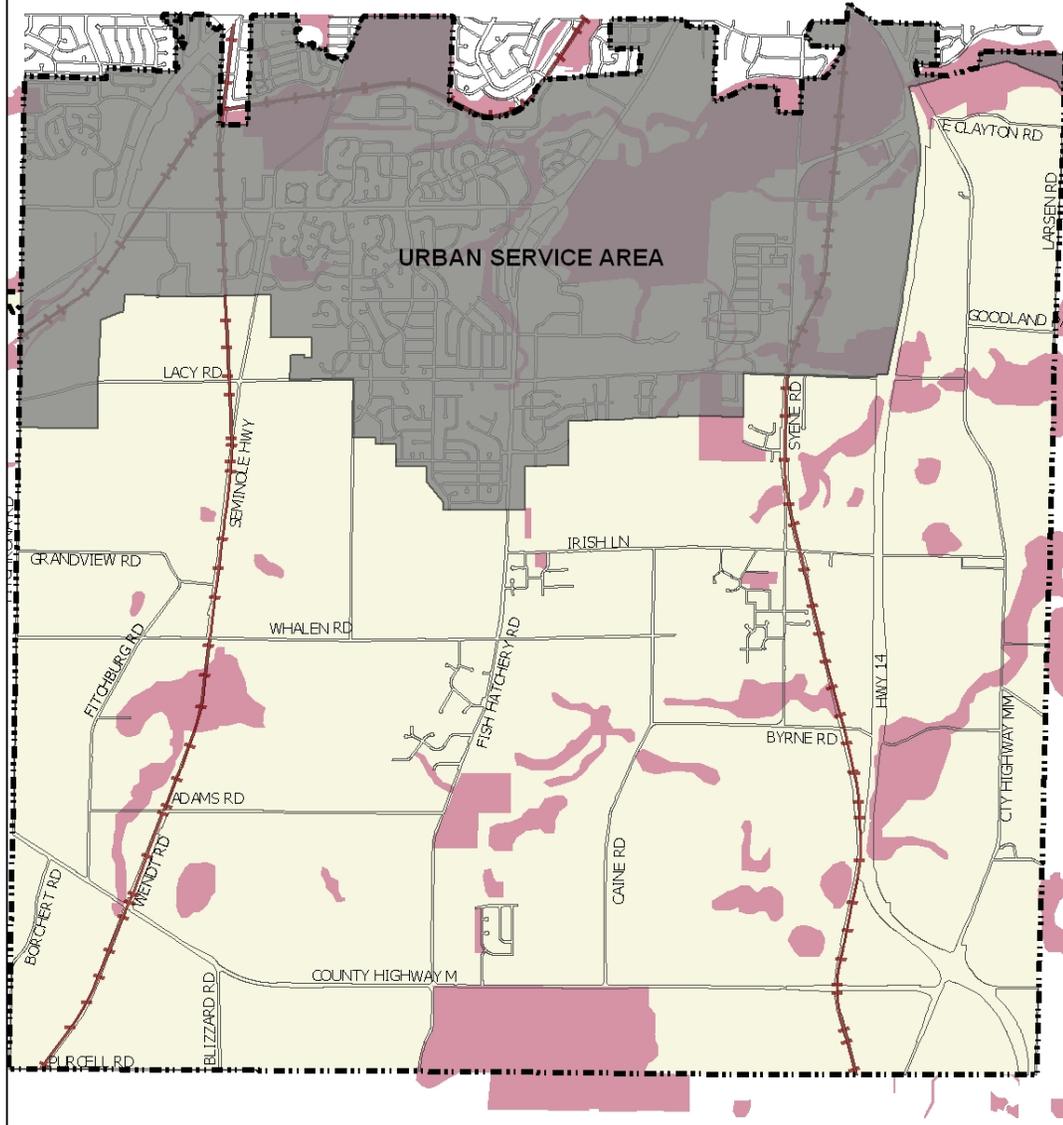
- City of Fitchburg Property
- Other Public Land
- Existing Recreational Trail
- Proposed Recreational Trail
- City Limits
- Right of Way



Data Sources:
 Dane County Land Information Office, 2004;
 Madison Metropolitan Planning Organization,
 Jan. 2006; City of Fitchburg, 2007.

Map prepared by Fitchburg Parks Department,
 February 2008.

Dane County Environmental Corridors



Legend

- Environmental Corridor
- City Limits
- Railroad Corridor
- Right of Way

Dane County Environmental Corridors are defined as "continuous systems of open space in urban and urbanizing areas, that include environmentally sensitive lands and natural resources requiring protection from disturbance and development, and lands needed for open space and recreational use."

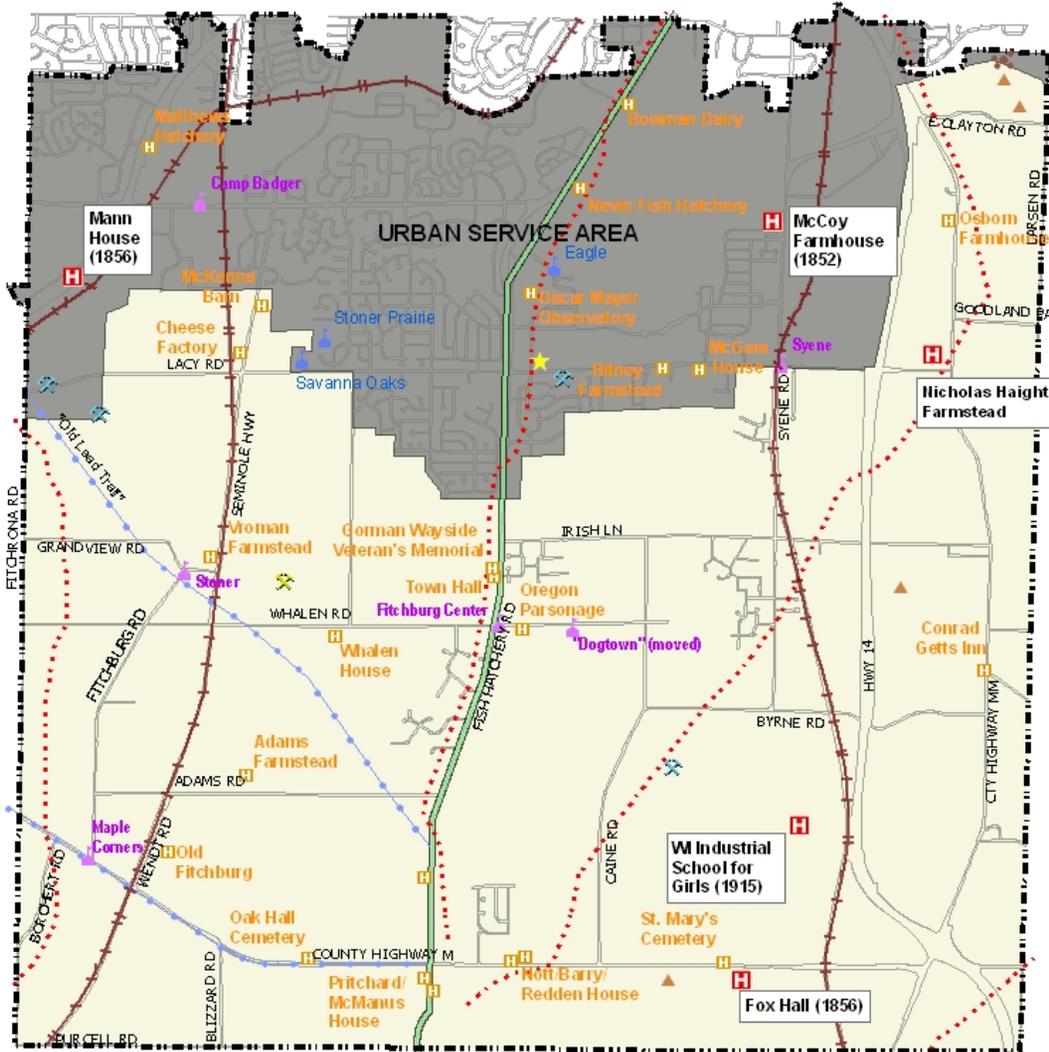


0 1,250 2,500 5,000 Feet

Data Sources:
Dane County Regional Planning Commission,
July 2006 and June 1997.

Map prepared by Fitchburg Parks Department,
February 2008

Cultural/Historical Resources



Legend

- City Hall
- Historic Lead Mine
- Historic Stone Quarry
- Existing School
- Historic School Building*
- Historic Building/Site*
- National Register of Historic Places*
- Historic Lead Trail
- Territorial Road
- Indian Trail
- Indian Camp
- Mound Group
- City Limits
- Railroad Corridor
- Right of Way

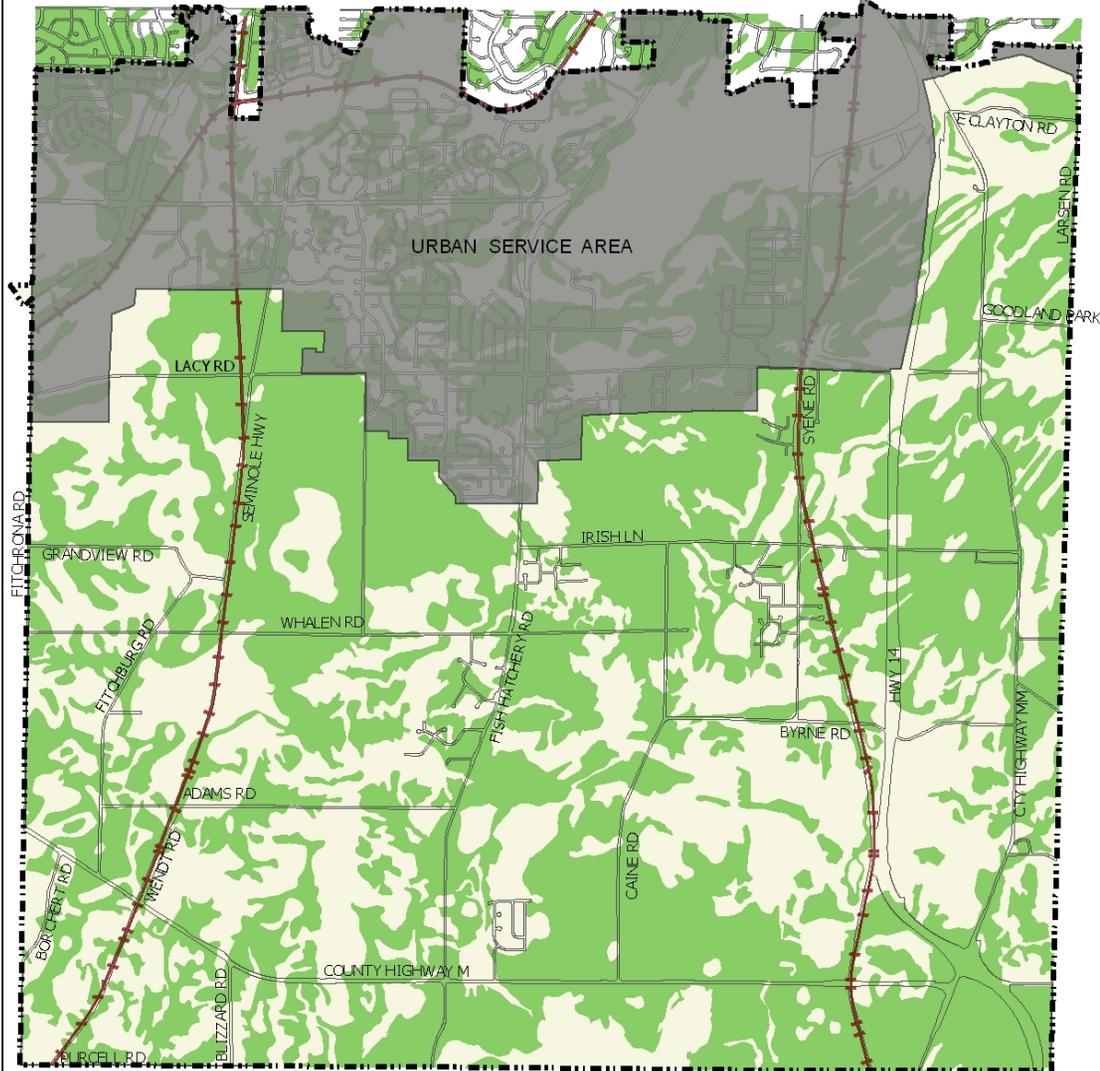


* includes designated landmarks, potential historic sites, and the Wisconsin Architecture & History Inventory.

Data Sources:
 Fitchburg Landmarks Preservation Commission, 1999;
 Kinney, 1993; Warner, 1873; Fitchburg Planning Dept.,
 Feb. 2004; Brown and W.W. Hixon & Co., 1924;
 Fitchburg Bicentennial Committee, 1976; Dane County
 Regional Planning Commission, Wisconsin Architecture
 & History Inventory.

Map prepared by Fitchburg Parks Department,
 May 2008

Other Considerations: Productive Soils



Legend

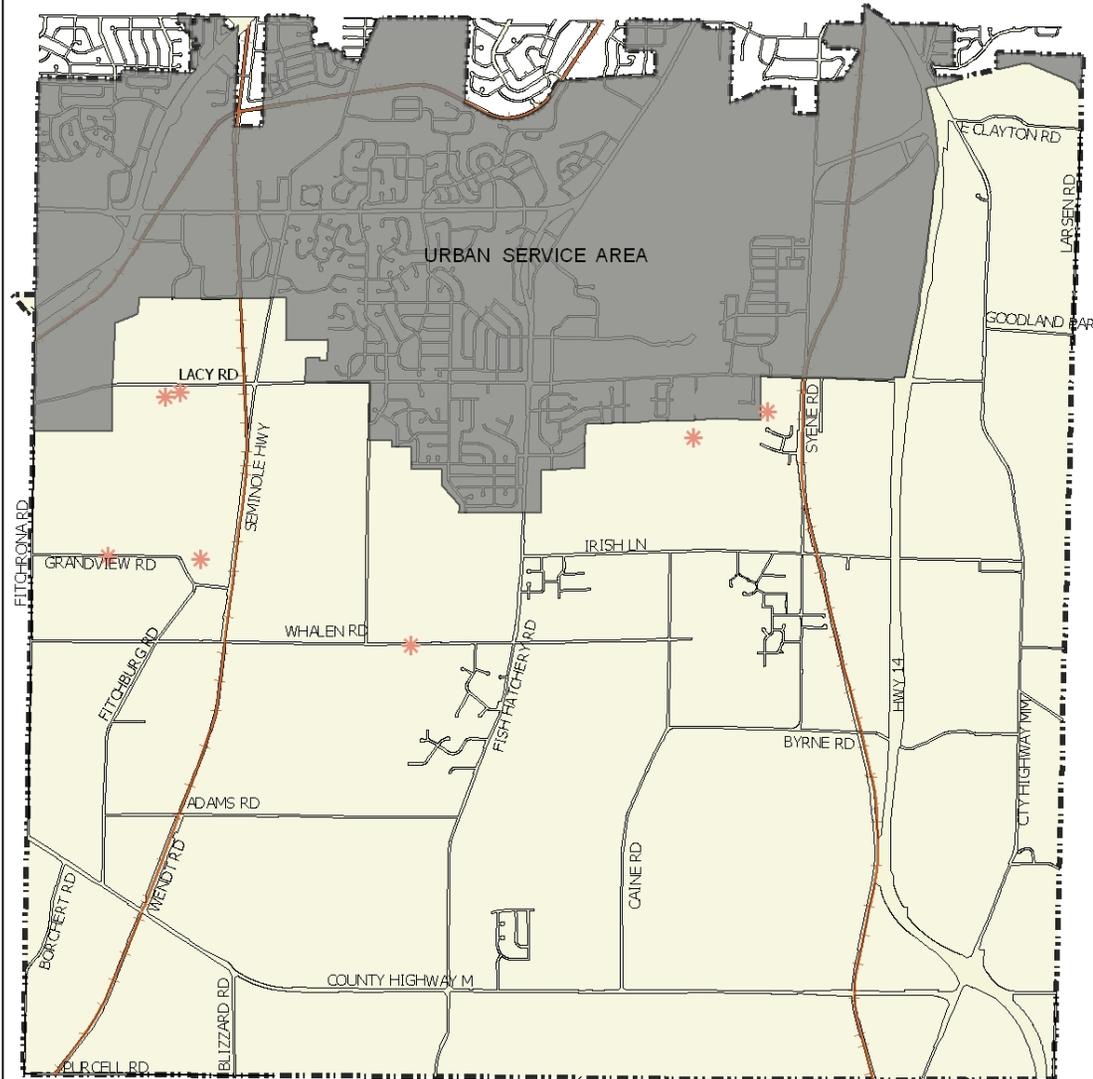
-  Soil Classes 1 & 2
-  City Limits
-  Railroad Corridor
-  Right of Way



Data Source:
Capital Area Regional Planning
Commission, 2006.

Map prepared by Fitchburg Parks Dept.
February 2008

Scenic Resources



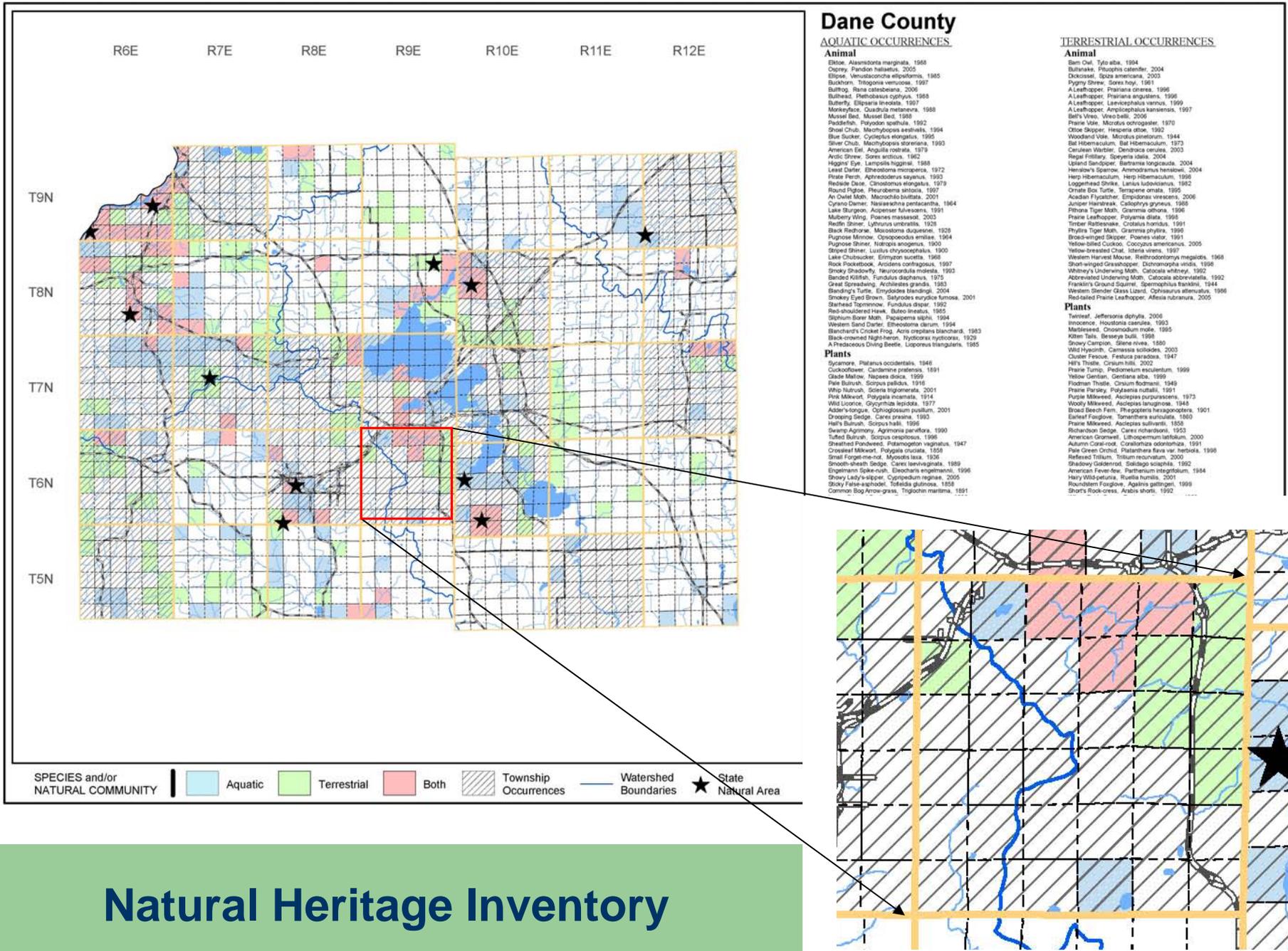
Legend

- * Scenic Resource
- +— Railroad Corridor
- Urban Service Area
- - - - - City Limits
- Right of Way



Data Source:
Residents of Fitchburg, 2007.

Map prepared by Fitchburg Parks Department
February 2008.



Dane County

AQUATIC OCCURRENCES

Animal

- Elkote, *Alasmidonta marginata*, 1958
- Ophey, *Pandion haliaetus*, 2005
- Elroy, *Venustaconcha elroyana*, 1985
- Burkham, *Tritogona venusta*, 1997
- Burhof, *Rana siskiwitana*, 2004
- Bullhead, *Plethobasus cyphus*, 1968
- Butterfly, *Eliassia trevella*, 1997
- Monkeyface, *Caudofoveata metensis*, 1988
- Muskel Bed, *Muskel Bed*, 1988
- Pastelfish, *Polydora spiculata*, 1992
- Shoal Chub, *Macrhybopsis aestivialis*, 1994
- Blue Sucker, *Cyprinostomus xanthurus*, 1995
- Silver Chub, *Macrhybopsis storeriana*, 1993
- American Eel, *Anguilla rostrata*, 1979
- Arctic Shrew, *Sorex arcticus*, 1962
- Higgins' Eye, *Lampisilis higginsii*, 1958
- Lead Carler, *Etheostoma missouriense*, 1972
- Rose Froth, *Aphredoderus sayanus*, 1993
- Resalee Dace, *Cinostomus xanthurus*, 1979
- Round Dogie, *Neurobera setulosa*, 1993
- An Owllet Moth, *Macronchloa bivittata*, 2001
- Cyrano Darter, *Naxosaxina petasanthina*, 1964
- Lake Sturgeon, *Acipenser fulvescens*, 1991
- Mulberry Wing, *Poanes massasoit*, 2003
- Reefie Shiner, *Lepomis umbrelata*, 1928
- Black Redhorse, *Moxostoma valenciennesi*, 1928
- Rugose Minnow, *Coleocoecilia eritrea*, 1964
- Purple Shiner, *Notropis anogenus*, 1993
- Striped Shiner, *Luxilus chrysocephalus*, 1900
- Lake Chubscucker, *Erimyzon succinea*, 1995
- Rock Pikeperch, *Avidens confragosa*, 1997
- Smoky Shadiner, *Neurocrassus moesta*, 1993
- Banded Killifish, *Fundulus diaphanus*, 1975
- Great Spreadinghead, *Archistes grandis*, 1983
- Banding's Turtle, *Emydoidea blandingii*, 2004
- Smoky Eyed Brown, *Saltatoris surpiscus fumosa*, 2001
- Starhead Topminnow, *Fundulus diplotis*, 1992
- Red-shouldered Hawk, *Buteo lineatus*, 1985
- Siphon Borer Moth, *Pagopema alphi*, 1994
- Western Sand Darter, *Etheostoma oorum*, 1994
- Blanchard's Crayfish, *Actia crepitans blanchardi*, 1983
- Black-crowned Night-heron, *Nycticorax nycticorax*, 1929
- A Pedaceous Diving Beetle, *Loporeus triangulatus*, 1985

Plants

- Sycamore, *Patanus occidentalis*, 1949
- Cuckooflower, *Cardamine pratensis*, 1891
- Glade Mallow, *Najasa dioica*, 1999
- Pink Bulrush, *Scirpus pallida*, 1916
- Whip-Nutrush, *Scirpus tiligomerata*, 2001
- Pink Milkweed, *Polypogon monspeliensis*, 1914
- Wet Luronion, *Oxyrhyza leptocoma*, 1977
- Asler's Tongue, *Ophioglossum pulchrum*, 2001
- Drinking Gledge, *Carex prensata*, 1993
- Hall's Bulrush, *Scirpus hallii*, 1996
- Swamp Agropyron, *Agropyron carolinense*, 1990
- Tufted Bulrush, *Scirpus eriopodus*, 1996
- Sheathed Pondweed, *Potamogeton vaginatus*, 1947
- Crisped Milkweed, *Polypogon crinitus*, 1958
- Small Forget-me-not, *Myosotis laxa*, 1936
- Smooth-sheath Sedge, *Carex lasiocarpa*, 1989
- Erigeron Spike-club, *Erigeron engelmannii*, 1996
- Showy Lady's-slipper, *Cypripedium reginae*, 2005
- Showy Yellow-archangel, *Toxicaria glutinosa*, 1928
- Common Bog Arrow-grass, *Tilgochia maritima*, 1991

TERRESTRIAL OCCURRENCES

Animal

- Barn Owl, *Tyto alba*, 1994
- Belted Kingfisher, *Ceryle alcyon*, 2004
- Ducks, *Spiza americana*, 2003
- Pigmy Shrew, *Sorex hoyi*, 1991
- A Leafhopper, *Praxiana grama*, 1996
- A Leafhopper, *Praxiana angustata*, 1996
- A Leafhopper, *Lanicephalus varius*, 1999
- A Leafhopper, *Amphiopterus kanawhaensis*, 1997
- Belt's Vireo, *Vireo bellii*, 2006
- Prarie Vireo, *Mniotilta schroederii*, 1970
- Ottee Skipper, *Heperia ottee*, 1992
- Woodland Vireo, *Micropus penicillatus*, 1944
- Belted Kingfisher, *Ceryle alcyon*, 1973
- Carolinian Warbler, *Dendroica cerulea*, 2003
- Regal Tattler, *Spizella idaho*, 2004
- Upland Sandpiper, *Bartramia longicauda*, 2004
- Hennip's Sparrow, *Ammodramus hennessi*, 2004
- Harp Heronnetter, *Harp Heronnetter*, 1999
- Loghead Shrike, *Lanius ludovicianus*, 1962
- Ornate Box Turtle, *Terrapene ornata*, 1995
- Acadian Flycatcher, *Empidonax virensens*, 2006
- Juniper Hawk, *Catophrys gymneus*, 1988
- Florida Tiger Moth, *Grammia ochrea*, 1966
- Prairie Leafhopper, *Polyamia dilata*, 1996
- Phyllis Tiger Moth, *Grammia phyllis*, 1996
- Black-winged Skimmer, *Poanes victor*, 1991
- Yellow-bellied Cuckoo, *Coccyzus americanus*, 2005
- Yellow-breasted Chat, *Icteria virens*, 1997
- Western Harvest Mouse, *Reithrodontomys*, 1995
- Short-winged Grasshopper, *Dichotoma viridis*, 1996
- Whitely's Underwing Moth, *Catocala whitelyi*, 1992
- Abbreviated Underwing Moth, *Catocala abbreviata*, 1992
- Franklin's Ground Squirrel, *Spermophilus franklini*, 1944
- Western Slender Grass Lizard, *Crotaphaga almerensis*, 1996
- Red-tailed Prairie Leafhopper, *Alexis rubranera*, 2005

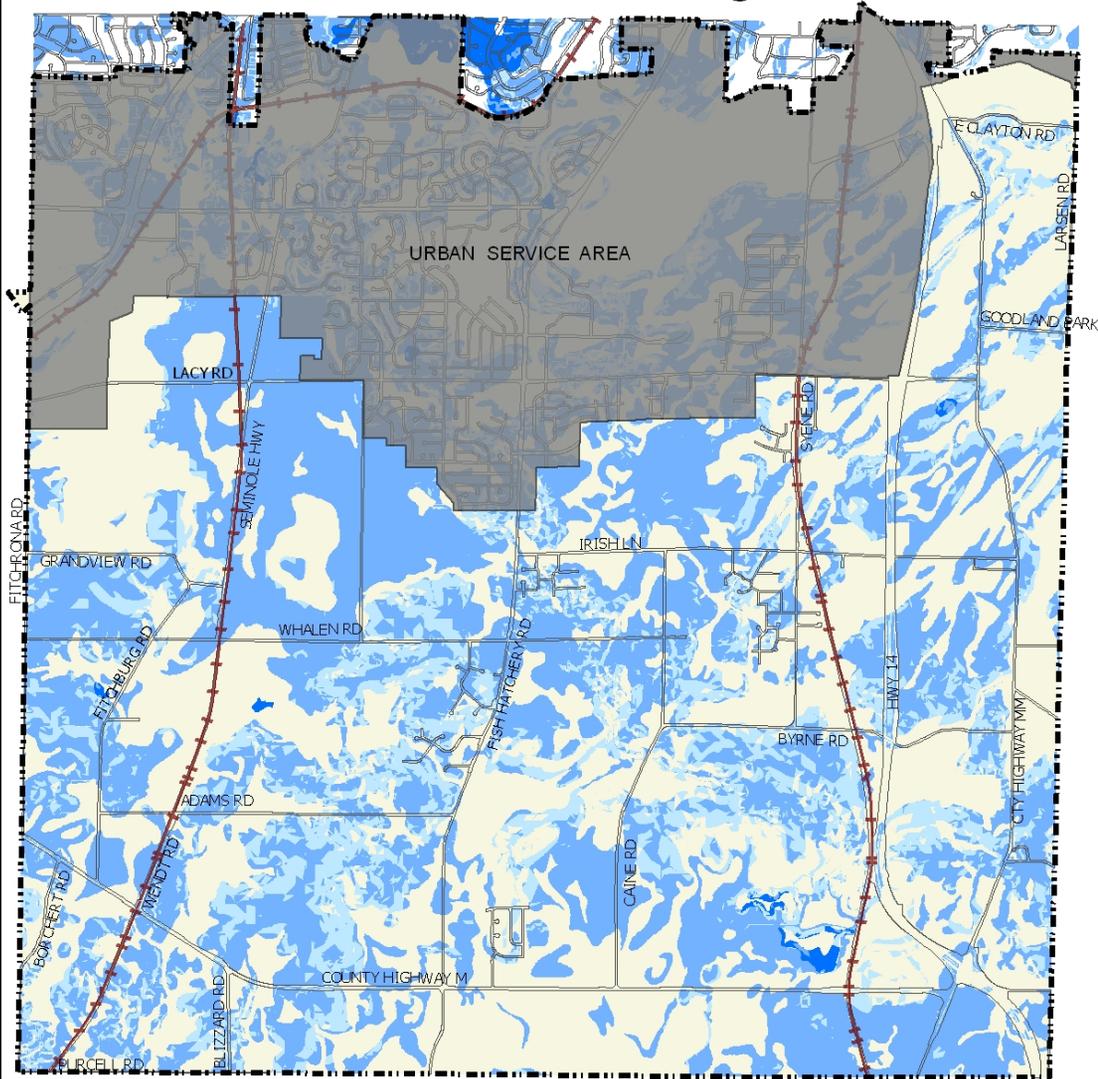
Plants

- Tennessee, *Jeffersonia diphylla*, 2006
- Innocence, *Houstonia canadensis*, 1993
- Midwestern, *Onosmodium rotundifolium*, 1995
- Klein's Tale, *Besleria baltica*, 1999
- Snowy Camellion, *Silene nivea*, 1980
- Wild Hyacinth, *Camassia scilloides*, 2003
- Cluster Fescue, *Festuca paradoxa*, 1947
- Hill's Thristle, *Cirsium hillii*, 2002
- Prairie Turnip, *Pedicularis exaltatum*, 1999
- Yellow Gentian, *Gentiana alba*, 1999
- Fishbone Thistle, *Cirsium discolor*, 1949
- Prairie Parsley, *Polypogon nuttallii*, 1991
- Purple Milkweed, *Asclepias purpurascens*, 1973
- Woody Milkweed, *Asclepias lanuginosa*, 1949
- Broad Beach Fern, *Phegopteris hexagonoptera*, 1991
- Earliest Fragwort, *Tomaria auriculata*, 1960
- Prairie Milkweed, *Asclepias sulcata*, 1958
- Richardson Sedge, *Carex richardsonii*, 1953
- American Gromwell, *Lithospermum latifolium*, 2000
- Autumn Coral-root, *Corallorhiza odoratissima*, 1991
- Pink Green Orchid, *Habenaria flava var. herbicola*, 1999
- Reflexed Triticum, *Triticum recurvatum*, 2000
- Shadblow Glandwort, *Solidago scapularis*, 1962
- American Fever-leaf, *Parthenium integrifolium*, 1984
- Hairy Wild-petunia, *Ruellia humilis*, 1991
- Roundstem Fossilwort, *Agalinis pattingeri*, 1999
- Short's Rock-rose, *Arabis shortii*, 1992

SPECIES and/or NATURAL COMMUNITY | Aquatic | Terrestrial | Both | Township Occurrences | Watershed Boundaries | State Natural Area

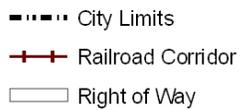
Natural Heritage Inventory

Groundwater Recharge



Legend

Infiltration Rating (0-10)



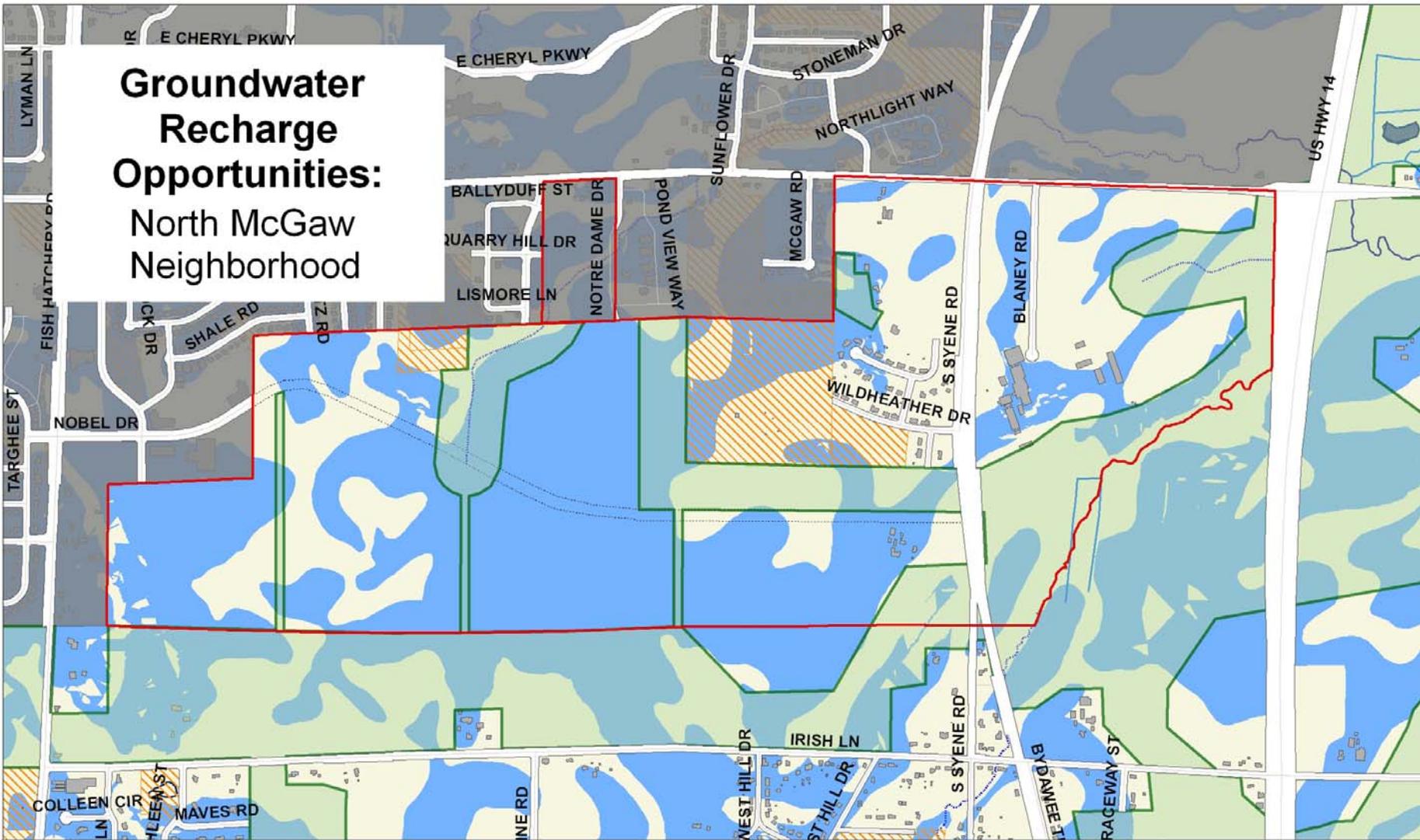
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Data Source:
Capital Area Regional Planning
Commission, 2006.

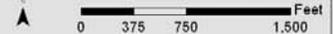
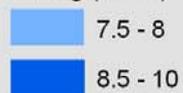
Map prepared by Fitchburg Parks Dept.

Groundwater Recharge Opportunities: North McGaw Neighborhood



Legend

Top Natural Infiltration Opportunities Rating (0 - 10)



Data Sources:
 Scott, 1976. Alison, 2001. Fitchburg Parks Dept., 2007, 2008. Dane County LIO, 2004, 2005. WDNR, 1986, 2004. Dane County & NRCS, 2005. Wamer, 1873. Brown & W.W. Hixon & Co., 1924 (WI Historical Society). Fitchburg Landmarks Preservation Commission, 1999. Madison MPO, 2006. DCRPC, 2006. Fitchburg Planning Dept., 2004, 2007. CARPC, 2006, 2008. Natural Resources Consulting, 2007. Dane County CAPD, 2006. Fitchburg Public Works, 2007. Fitchburg Citizens, 2008.