

GRRIP II Watershed Analysis for Mansfield, MA.

Estimates of Land Use, Impervious Surface and Annual Nonpoint Source Pollution Loads

Watershed 2

2003 Land Use Types

- Crop Land
- Pasture
- Forest
- Non-Forested Wetland
- Mining
- Open Land
- Participation Rec.
- Spectator Rec.
- Water-based Rec.
- Multi-Fam. Res.
- High Density Res.
- Medium Dens. Res.
- Low Dens. Res.
- Salt Water Wetland
- Commercial
- Industrial
- Urban Open
- Transportation
- Waste Disposal
- Water
- Woody Perennial (Includes Cranberry Bogs and Nurseries)

Land Use Allocation

440.1 acres

- Forest (24.2%)
- Water (20.2%)
- Open Land (22.5%)
- High Density Res. (17.6%)
- Medium Density Res. (22.5%)
- Transportation (20.5%)
- Water (21.4%)



Land Use Area in Acres is 440.1

Impervious Area is 29.2 Acres

Percentage of Imperviousness = 6.6%

Avg Annual Nitrogen Load = 2603.7 pounds

Avg Annual Phosphorus Load = 452.1 pounds

Avg Annual Suspended Solids = 102517.8 pounds



Williams St. Bridge near Robinson Pond. Upgradient is a Priority Habitat area and a Zone II area for a municipal well.

1



Williams St. Bridge near Robinson Pond. Upgradient is a Priority Habitat area and a Zone II area for a municipal well.

2



Williams St. Bridge near Robinson Pond. Upgradient is a Priority Habitat area and a Zone II area for a municipal well.

3



Williams St. Bridge near Robinson Pond. Upgradient is a Priority Habitat area and a Zone II area for a municipal well.

4

Williams St. Bridge: this site is in terrible disrepair and although it is no longer functional as a transportation structure, it is an environmental threat as it exists. There are sections of pavement from the road surface and asphalt from swales in the receiving waters. Granite columnar bridge supports have toppled in the water. The dam and spillway are in disrepair and there is very dense aquatic vegetation behind the dam. This structure sits upgradient from very sensitive habitat and the Zone II of a municipal well. This should be a priority repair/replacement project.

The GRRIP II (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Single Roadways. The Watershed Analysis Project further details several of the drainage systems within each of the watersheds in the Narragansett and Taunton River Watersheds. This Watershed Analysis Project shows the general health of the contributing watershed from the specified drainage system by outpicturing an area of responsibility using the Scholar Watershed Methodology and the Watershed Tools Extension developed by Mass GIS.

Map prepared by
SRPEDD
88 Broadway, Taunton MA
August 2004

Watershed Analysis produced
using the Watershed Tools
Extension developed by
Mass GIS.

This map was produced by SRPEDD (Southeastern Regional Planning and Economic Development District), Taunton, MA. Portions of the source digital data may have been supplied by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Cable Corporation of Taunton, MA, SRP, the Bureau of Transportation Planning & Development, Division of Environmental Services, Division of Wildlife, Road and Bridge Program, USGS, Salt Conservation Service, Coastal Land Management, National Oceanic & Atmospheric Administration (NOAA).

The location of feature boundaries shown on this map are approximate and are provided for planning purposes only. This map is an informational tool, not a planning or survey project.

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- Drainage System
- Potential Vernal Pools
- Critical Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarefish_noon
- Rarefish_noon
- Rarecrustacean_noon
- Rareperible_noon
- Rareolive_noon
- Intermittent Wetland Protect
- Cold Water Fisheries
- Anadromous Fish Run
- Critical Area after Storm Event
- Wetlands
- Solid Waste Facility
- Estimated and Priority Habitats
- ACEC
- Zone 2
- Zone B
- Rivers and Streams
- Lakes & Ponds
- Road Island Towns
- Other MA Towns
- Town Boundary
- Ocean
- Transmission Lines
- Roadway
- Roads (Mass Hwy Functional Classes)
 - Local Rd & Non-Eligible Functional Class Rds (F-0/F-1)
 - Interstate (F-3)
 - Rural Principal Arterial & Urban Ext(F-2)
 - Rural Major Arterial & Urban Ext(F-2)
 - Other Urban Principal Arterial(F-4)
 - Urban Major Arterial or Rural Major Collector
 - Urban Collector or Rural Minor Collector (F-6)

50% (Western Portion) of the Sub-Watershed falls within a Zone 2 Protection Area



Inset of Watershed Location

