GRRIP II Watershed Analysis for Freetown, MA

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

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)

Richmond Rd. near Forge Rd. and Forge Pond

1

Richmond Rd. near Forge Rd. and Forge Pond

2

Richmond Rd. (near Forge Rd. and Forge Pond); 8" metal pipe in stone headwall. Southeast side is collapsed and cluttered with fallen trees and logs in drainage way. Northwest side is in better shape but drainage way is also cluttered with limbs and debris.

Land Use Allocation

423.4 acres

Land Use Area in Acres is 423.4
Impervious Area is 14.4 Acres
Percentage of Imperviousness = 3.4%

Avg Annual Nitrogen Load	=	1715.1 pounds
Avg Annual Phosphorus Load	=	242.8 pounds
Avg Annual Suspended Solids	=	51707.4 pounds

- Drainage System
- Potential Vernal Pools
- Certified Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird_noaa
- Rarefish_noaa
- Rarecrustacenn_noaa
- Rarereptile_noaa
- Rarebivalve_noaa
- Intermittent Wellhead 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
- Railroad

Roads (Mass Hwy Functional Classes)

- Local Rds & Non Eligible Functional Class Rds (F-0/F-6)
- Interstate (F-1)
- Rural Principal Arterial & Urban Ext (F-2)
- Rural Minor Arterial & Urban Ext (F-3)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-5)

1&2

The GRRIP II(Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP II analyzed towns in the SRPEDD region that fall within the Narragansett and Taunton River Watersheds.
This Watershed Analysis Project further details several of the drainage systems within each of the towns in the Narragansett and the Taunton River Watersheds to show the general health of the contributing watershed from the specified drainage system by extrapolating the area of imperviousness using the Schuler 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.

Inset of Watershed Location

N

0 700 1400 Feet

This map is 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, Cahner Corporation of Newton, MA; ESRI; the Bureau of Transportation Planning & Development, Division of Marine Fisheries, Division of Fisheries & Wildlife, Statewide Bay Project; USDA Soils Conservation Service; Coastal Zone Management; National Oceanic & Atmospheric Association (NOAA).

The location of feature boundaries shown on this map are approximate and are intended for planning purposes only. This map is not intended for legal, engineering or survey purposes.

The funding for this project was provided by the Federal Highway Administration (FHWA) and the Massachusetts Highway Department.

SRPEDD

MASS GIS