

GRRIP II Watershed Analysis for Lakeville/Freetown, MA

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

2003 Land Use Types

- Crop Land
- Pasture
- Forest
- Non-Forest 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

- Forest (61.2%)
- Wetland (61.6%)
- Agriculture (61.7%)
- Open Space (61.7%)
- Water Area (61.8%)
- Commercial (61.9%)
- Industrial (62.0%)
- Water (62.2%)

832 acres



Land Use Area in Acres is 832

Impervious Area is 46.4 Acres

Percentage of Imperviousness = 5.6%

Avg Annual Nitrogen Load = 3810 pounds

Avg Annual Phosphorus Load = 518.6 pounds

Avg Annual Suspended Solids = 130889.5 pounds

Long Pond

Little Quittacas Pond

This drainage point is located at the Freetown public boat landing area. The culvert/wall-style drainage system has substantial sediment buildup at the outflow pipe which deposits drainage into a separate wetlands area, flowing for several hundred feet before emptying into Long Pond.



Photo 1 (Photo 1): Sediment and debris at drainage outflow pipe from the Freetown Boat Ramp at Pt. 10.



Photo 2 (Photo 2): Drainage outflow pipe at the Freetown Boat Ramp at Pt. 10 into Long Pond.

- Drainage System
 - Potential Vernal Pools
 - Certified Vernal Pool
 - Public Water Supply
 - Public Beach
 - Shellfish Beds
 - Rarebird_noon
 - Rarefish_noon
 - Rarecrustacean_noon
 - Rareamphib_noon
 - Rareinvertebrate_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
 - Railroad
- ### Roads (Mass Hwy Functional Classes)
- Local Rd. & Non-Eligible Functional Class Rts (F-0/F-1)
 - Rural Principal Arterial & Urban End (F-2)
 - Rural Minor Arterial & Urban End (F-3)
 - Other Urban Principal Arterial (F-4)
 - Urban Major Arterial or Rural Major Collector (F-4)
 - Urban Collector or Rural Minor Collector (F-4)

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 Roadways. GRRIP II analyzed towns in the SRPEDD region for all within the Narragansett and Taunton River Watersheds. The Watershed Analysis Project further details several of the drainage systems within each of these 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 its area of imperviousness using the Scholar Watershed Metadata 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 prepared by SRPEDD (Southeastern Regional Planning and Economic Development District), Taunton, MA. Portions of the aerial digital data map have been supplied by the Massachusetts Executive Office of Environment and Heritage Affairs (MassDEA), Cape Cod Corporation of Taunton, MA, SRP, the Bureau of Transportation Planning & Development, Division of Motor Vehicle, Division of Fisheries & Wildlife, Statewide River Project, USGS, Joint Conservation Service, Coastal Law Management, National Oceanic & Atmospheric Administration (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.

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Inset of Watershed Location

0 1000 2000 Feet

