

# GRRIP I Watershed Analysis for Wareham, MA.

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

## 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

### Land Use Allocation 690.7 acres

Forest (44.5%)
Water (27.5%)
Agriculture (17.2%)
Open Space (10.1%)
Residential (29.2%)
Commercial (14.2%)
Industrial (12.2%)
Transportation (10.2%)
Waste (1.5%)

Land Use Area in Acres is 690.7  
 Impervious Area is 68.7 Acres  
 Percentage of Imperviousness = 9.9%  
 Avg Annual Nitrogen Load = 3614.1 pounds  
 Avg Annual Phosphorus Load = 518.4 pounds  
 Avg Annual Suspended Solids = 132438.0 pounds

### Drainage System

- Potential Vernal Pools
- Certified Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird\_noon
- Rarebird\_noon
- Rarebird\_noon
- Rarebird\_noon
- Rarebird\_noon
- Intermittent Wetland Protection
- 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

- Local Rd & Non-Eligible Functional Class Rd (F0-F9)
- Interstate (F-1)
- Rural Principal Arterial & Urban Exp (F-2)
- Rural Minor Arterial & Urban Exp (F-3)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-6)

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



The GRRIP I (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP I analyzed towns in the SRPEDD region that fall within the Buzzards Bay Watershed. This Watershed Analysis Project further details several of the drainage systems within each of the towns in the Buzzards Bay Watershed to show the general health of the contributing watershed from the specified drainage system by extrapolating its area of imperviousness using the Scholar Watershed Knowledge and the Watershed Tools Extension developed by Mass GIS.

This map was produced by SRPEDD (Southwest Regional Planning and Economic Development District, Taunton, MA). Portions of the aerial digital data may have been modified by SRPEDD staff members. Sources: Office of Environmental Affairs, MassGIS, Colgate Corporation of Boston, MA, ESRI, the Bureau of Transportation Planning & Development, Division of Air and Traffic Control, Division of Planning & Information, Statewide Planning, USGS, GIS Collaboration Service, Central Mass Management District, Office of Atmospheric Sciences (NOAA).

The location of features shown on this map are approximate and are intended for planning purposes only. This map is not intended for navigation or survey purposes.

The funding for this project was provided by the Executive Office of Transportation (DOT) Office of Massachusetts Highway Department.

SRPEDD  
 1000 State Street  
 Taunton, MA 01960  
 Phone: 508-848-3000  
 Fax: 508-848-3001  
 Email: info@srpedd.com

SRPEDD  
 MASS GIS  
 Office of Atmospheric Sciences (NOAA)