

# GRRIP I Watershed Analysis for Westport, MA

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

## Watershed 1

**Land Use Allocation** **472.4 acres**

Forest (62.5%)
Water (20.0%)
Open Land (14.3%)
Open Space (11.3%)
Residential (17.0%)
Commercial (20.0%)
Industrial (21.2%)
Other (20.0%)

Land Use Area in Acres is 472.4  
 Impervious Area is 22.2 Acres  
 Percentage of Imperviousness = 4.7%  
 Avg Annual Nitrogen Load = 2203.8 pounds  
 Avg Annual Phosphorus Load = 332.9 pounds  
 Avg Annual Suspended Solids = 91425.3 pounds



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

**Land Use Types**

- Grass 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

**Drainage System**

- Potential Vernal Pools
- Certified Vernal Pools
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird\_nons.shp
- Rarefish\_nons.shp
- Rarecrustacean.shp
- Rareinvertebrate.shp
- Rarebirdive\_nons.shp
- Intermittent Wetland Protect
- Cold Water Fisheries
- Anadromous Fish Run
- Critical Area after Storm Event
- Wetlands
- Solid Waste Facility
- Estimated and Priority Habitats
- ACCE
- Zone 2
- Zone B
- Rivers and Streams
- Lakes & Ponds
- Road Island Towns
- Other MA Towns
- Town Boundary
- Ocean
- Transmission Lines
- Railroad

**Roads**

- Local Rds & Non-Eligible Functional Class Rds (F0/F-6)
- Interstate (I-1)
- Rural Principal Arterial & Urban Ext (F-3)
- Rural Minor Arterial & Urban Ext (F-4)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-6)

These drainage points show direct discharge from the road into the Westport River. Catch basin with overflow piped directly to the walled river channel. In proximity to a boat ramp, recreation area, plus residential and commercial development.



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 fell within the Buzzards Bay Watershed. The 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 Methodology and the Watershed Tools Extension developed by Mass GIS.

The following data sources from MA state agencies were used in the development of this report:

**Department of Transportation (DOT)**  
 1999-2001 Estimated Number of Road Miles - Used in the Watershed Methodology

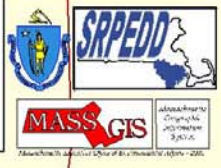
**MassGIS**  
 1999-2001 Countywide Vernal Pools and Wetlands  
 1999-2001 Countywide Vernal Pools and Wetlands  
 1999-2001 Countywide Vernal Pools and Wetlands

**Certified Vernal Pools**  
 1999-2001 Massachusetts Certified List of Pools

This report was produced by SRPEDD (Southwest Region of Planning and Economic Development District), Taunton, MA. Portions of the report data may have been supplied by the Massachusetts Executive Office of Environmental Affairs (MassDOT), Cape Cod Commission, and the Office of Transportation Planning & Development, Division of Motor Vehicle Services, Commonwealth of Massachusetts, Department of Transportation, and the Massachusetts Department of Environmental Protection (MassDEP).

The location of various 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 Executive Office of Transportation (DOT) through the Massachusetts Department of Transportation.



0 0.3 Miles