

GRRIP I Watershed Analysis for Marion, MA.

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

Watershed 1

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 657.2 acres

- Forest (65.4%)
- Water (22.2%)
- Agriculture (20.2%)
- Open Space (16.1%)
- Residential (14.4%)
- Commercial (10.1%)
- Waste (10.2%)
- Transportation (10.2%)
- Woods (10.2%)



Land Use Area in Acres is 657.2
 Impervious Area is 16.5 Acres
 Percentage of Imperviousness = 2.5%
 Avg Annual Nitrogen Load = 2047.2 pounds
 Avg Annual Phosphorus Load = 208.7 pounds
 Avg Annual Suspended Solids = 4868.2 pounds

- Drainage System
- Potential Vernal Pools
- Certified Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rare/bird_noon
- Rare/fish_noon
- Rare/crocodon_noon
- Rare/reptile_noon
- Rare/birdive_noon
- Intermittent Wetland Protect
- Cold Water Fisheries
- Anadromous Fish Run
- Critical Area after Storm Event
- Wetlands
- Solid Waste Facility
- Estimated and Priority Habitats
- ACIC
- 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 (F-0/F-6)
- Interstate (I-1)
- Rural Principal Arterial & Urban Ed (F-2)
- Rural Minor Arterial & Urban Ed (F-3)
- Other Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-6)

This drainage point shows rip-rapped swale drainage with direct discharge in the Sippican River. The condition of the roadway is fair to good with evidence of some crumbling on the pavement edge. The land area surrounding this section of roadway is a forested riverbank resource with a dense understory in a large area of Open Space that has minimal residential development.



Point 1 (Point 1):
 Road 102 at the
 Sippican River near
 Route 81 Turn Off.



Point 2 (Point 2):
 Road 102 at the
 Sippican River near
 Route 81 Turn Off.

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 for 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 categorizing the areas of imperviousness using the Scholar Watershed Methodology and the Watershed Tools Extension developed by Mass GIS.

Map prepared by
 SRPEDD
 88 Broadway, Taunton, MA
 Sept 2003

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



This map was produced by SRPEDD (Southwestern Regional Planning and Economic Development District), Taunton, MA. Portions of the aerial digital data were been modified by MassGIS, the State Office of Environmental Affairs, MassGIS, Capital Corporation of Boston, MA, SRP, the Forces of Transportation Planning & Development, Division of Mass Planning, Division of Planning & Policy, SRPEDD, the Project, USFH, SRP, Conservation Services, Capital Land Management, National Oceanic & Atmospheric Administration (NOAA).

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

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Inset of Watershed Location

