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 (64.4%)
Wetlands (17.0%)
Agriculture (1.2%)
Open Space (5.1%)
Residential (10.2%)
Commercial (5.2%)
Industrial (0.2%)
Transportation (0.6%)
Water (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_noaa
- Rarefish_noaa
- Rarecrustacean_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
- Rend Island Towns
- Other MA Towns
- Town Boundary
- Ocean
- Transmission Lines
- Railroad

Roads

- 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-6)

1 2 3 4

195

Point1: Main Gilderness Roadway & Grate Sta. Low point of roadway directs drainage to stream below (Gibney Rea Brook). Large amount of debris at inlet (siltig).

Point2: Main Gilderness Roadway & Grate Sta. System is a closed basin spill packet of Point 1. No baffle of filtration device apparent.

Point3: Marina Road Bridge Trail. Does grate attach to a drainage structure? located on a cross-rd at the head of Great Marsh River, outlet to Gibney Rea Brook.

Point4: At the end of Bonine Trail, overlooking Great Marsh River, flows downhill to the Gibney Rea Brook.

Inset of Watershed Location

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 Schueler Watershed Metodology and the Watershed Tools Extension developed by Mass GIS.

0 0.25 0.5 Miles

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

SRPEDD

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