

GRRIP I Watershed Analysis for Dartmouth,, 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 357.7 acres

- Forest (37.2%)
- Water (21.2%)
- Agriculture (21.2%)
- Open Space (24.4%)
- Residential (18.1%)
- Commercial (27.4%)
- Wetlands (20.6%)
- Transportation (22.2%)
- Waste (22.2%)



Land Use Area in Acres is 357.7
 Impervious Area is 22.3 Acres
 Percentage of Imperviousness = 9%

Avg Annual Nitrogen Load = 2215.1 pounds
 Avg Annual Phosphorus Load = 366.9 pounds
 Avg Annual Suspended Solids = 91217.7 pounds

- ### Drainage System
- Potential Vernal Pools
 - Certified Vernal Pool
 - Public Water Supply
 - Public Beach
 - Shellfish Beds
 - Rarebird_noon
 - Rarefish_noon
 - Rarecrustacean_noon
 - Rareinvertebrate_noon
 - Rareinvasive_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 Rte & Non-Eligible Functional Class Rte (F0-F6)
 - 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)



Inset of Watershed Location

This drainage system shows a pipe and paved swale drainage system. The River is channelized in an open coastal plain, tidal flats and marsh. Condition of storm drain is poor. Roadway condition is good.



POINT: Rainwater Run
 MA 01948 on Line 21
 at Opposite Bay.



POINT: Drainage Pipe at Opposite Bay

Point 2 is an alternate drainage point that shows an additional potential point source for contaminants into this particular watershed.

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 roads 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.

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

