

# GRRIP II Watershed Analysis for N. Attleborough, MA

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

## Watershed 2

Whiting Pond

### 2003 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 (Includes Cranberry Bogs and Nurseries)

### Land Use Allocation

148.9 acres

- Forest (60.2%)
- Wetlands (14.7%)
- Agriculture (20.0%)
- Open Land (4.1%)
- Open Space (22.9%)
- Water (1.1%)
- Waste Disposal (0.2%)
- Transportation (0.2%)
- Water (0.2%)



### Land Use Area in Acres is 148.9

Impervious Area is 64.7 Acres

- Percentage of Imperviousness = 43.5%
- Avg Annual Nitrogen Load = 1313.9 pounds
- Avg Annual Phosphorus Load = 232.6 pounds
- Avg Annual Suspended Solids = 68395.0 pounds

### Drainage System

- Potential Vernal Pools
- Certified Vernal Pools
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird\_nosa
- Rarefish\_nosa
- Rareinsect\_nosa
- Rareplant\_nosa
- Rarewildlife\_nosa
- 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
- Road Island Towns
- Other MA Towns
- Town Boundary
- Ocean
- Transmission Lines
- Railroad

### Roads (Mass Hwy Functional Classes)

- Local Rd & Non-Eligible Functional Class Rte (F-GIF-4)
- Interstate (F-1)
- Rural Principal Arterial & Urban Blvd (F-2)
- Rural Minor Arterial & Urban Blvd (F-3)
- Urban Principal Arterial (F-4)
- Urban Minor Arterial or Rural Major Collector
- Urban Collector or Rural Minor Collector (F-5)

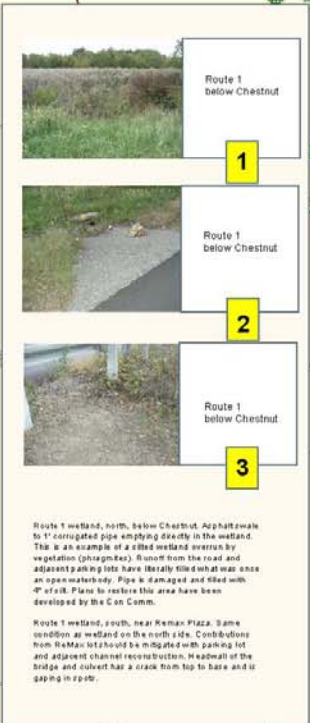
The GRRIP II Geographic Roadway Runoff Inventory Program is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP II analysis is based on the SRPEDD regional fall/winter management and Taunton River Watershed. The Watershed Analysis Project further details several of the drainage systems within each of the town's inventory and the Taunton River Watershed to show the general health of the contributing watershed from the roaded drainage system by outplotting its area of imperviousness using the Scholar Watershed/Modeling and the Watershed Tools Extension developed by MassGIS.

Map prepared by  
SRPEDD  
88 Broadway, Taunton MA  
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Watershed Analysis produced  
using the Watershed Tools  
Extension developed by  
MassGIS.

Watershed Analysis was conducted using the Watershed Tools Extension developed by MassGIS. The Watershed Tools Extension was developed by MassGIS. The Watershed Tools Extension was developed by MassGIS.

This report was produced by SRPEDD (Southeastern Regional Planning and Economic Development District), Taunton, MA. Portions of the aerial digital data were derived from the Massachusetts Department of Environmental Affairs (MADEA), Cooper Corporation of Taunton, MA. SRPEDD, the Bureau of Transportation Planning & Development, Division of Mass Public Works, Division of Planning & Development, Regional Office, 1000 State Street, Taunton, MA 01960. The location of features boundaries shown on this map are approximate and are provided for planning purposes only. This map is not intended for legal, engineering or survey purposes. The funding for this project was provided by the Federal Highway Administration (FHWA) under the Massachusetts Highway Department.



Route 1 wetland, north, below Chestnut. Asphalt road to 1" corrugated pipe emptying directly in the wetland. This is an example of a filled wetland overrun by vegetation (phragmites). Runoff from the road and adjacent parking lots have literally filled what was once an open wetland. Pipe is damaged and filled with 4" of silt. Plans to restore this area have been developed by the Co. Comm.

Route 1 wetland, south, near Kellan Plaza. Same condition as wetland on the north side. Contributions from Kellan lot to road by migrated curb parking lot and adjacent channel reconstruction. Headwall of the bridge and culvert has a crack from top to base and is gapping in parts.

