

# GRRIP I Watershed Analysis for Rochester, MA.

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

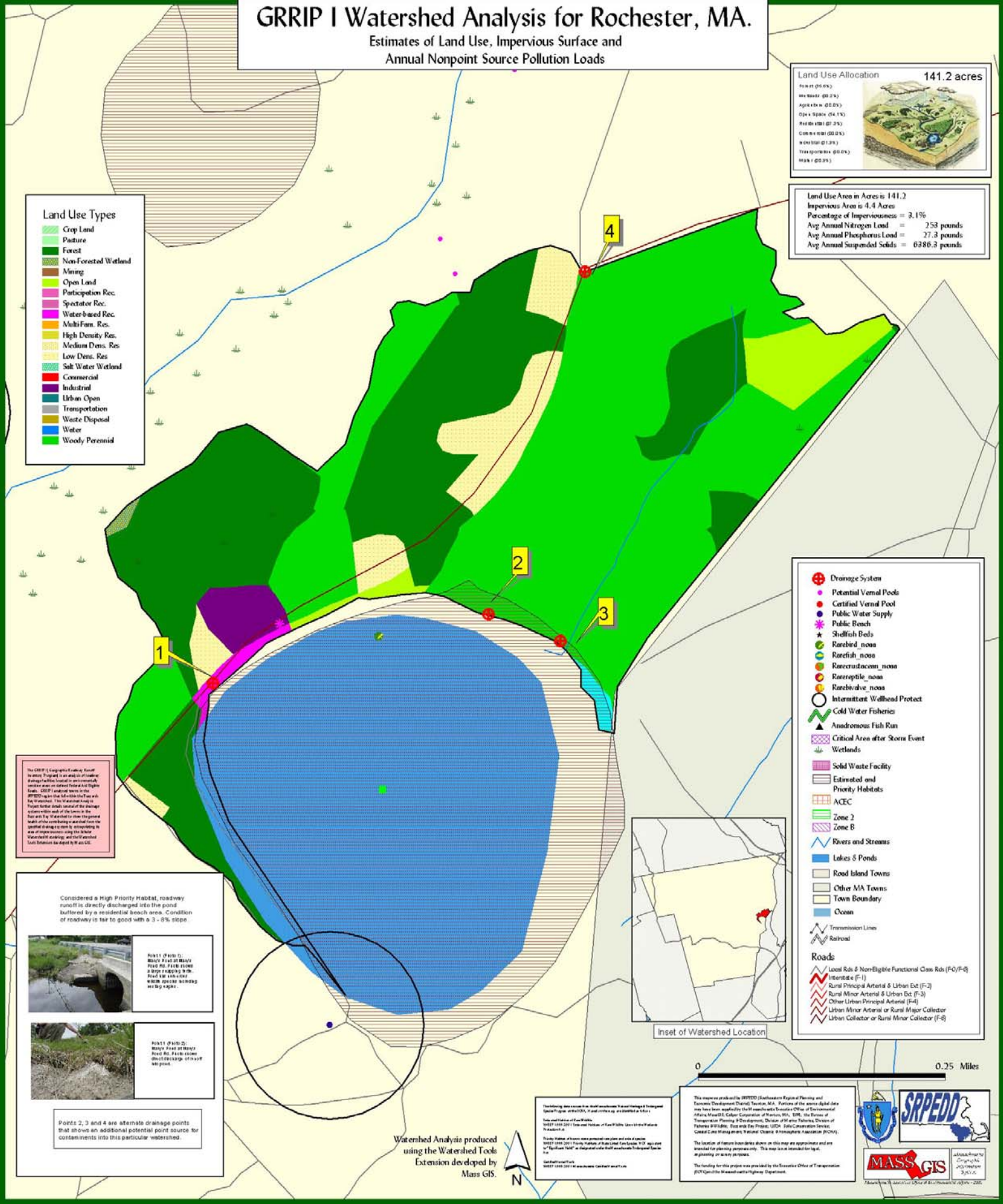
**Land Use Allocation** **141.2 acres**

Woods (60.2%)
Open Land (24.1%)
Multi-Fam. Res. (11.2%)
High Density Res. (3.1%)
Medium Density Res. (2.3%)
Low Density Res. (1.8%)
Other (1.2%)
Water (0.8%)
Wetlands (0.5%)

Land Use Area in Acres is 141.2  
 Impervious Area is 4.4 Acres  
 Percentage of Imperviousness = 3.1%  
 Avg Annual Nitrogen Load = 253 pounds  
 Avg Annual Phosphorus Load = 27.3 pounds  
 Avg Annual Suspended Solids = 6386.3 pounds

**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



**Drainage System**

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

**Roads**

- Local Rd & Non-Eligible Functional Class Rd (F0/F4)
- 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)

The GRRIP I Geographic Analysis Report is being prepared in accordance with the drainage analysis protocol established in the GRRIP I analysis report. GRRIP I analysis report is the final report of the GRRIP I analysis. This report is being prepared in accordance with the drainage analysis protocol established in the GRRIP I analysis report. This report is being prepared in accordance with the drainage analysis protocol established in the GRRIP I analysis report.

Considered a High Priority Habitat, roadway runoff is directly discharged into the pond buffered by a residential beach area. Condition of roadway is fair to good with a 3 - 8% slope.



Point 1 (Photo 1): Runoff from 20' wide road into pond. Runoff is directly discharged into the pond buffered by a residential beach area. Condition of roadway is fair to good with a 3 - 8% slope.



Point 2 (Photo 2): Runoff from 20' wide road into pond. Runoff is directly discharged into the pond buffered by a residential beach area. Condition of roadway is fair to good with a 3 - 8% slope.

Points 2, 3 and 4 are alternate drainage points that show an additional potential point source for contaminants into this particular watershed.



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

Technical data source: MassGIS, Massachusetts Geographic Information System. Data provided by MassGIS, Massachusetts Geographic Information System. Data provided by MassGIS, Massachusetts Geographic Information System. Data provided by MassGIS, Massachusetts Geographic Information System.

This map was produced by SRPEDD (Southwestern Regional Planning and Economic Development District, Torrington, MA). Portions of the aerial digital data were provided by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Capital Corporation of Boston, MA, ERI, the Bureau of Transportation Planning & Development, Division of Mass Planning, Division of Planning & Development, State of Massachusetts, USGS, USGS Conservation Service, Central Mass Management District, Connecticut Association of Planning & Zoning.