

Stormwater planning and stream crossing assistance for municipalities

The increased frequency of large rainstorms has caused issues for landowners and municipalities in recent years, including several major flooding events in 2011. These floods have caused loss of life and resulted in property damage and unanticipated costs in annual budgets. In addition, new legislation that took effect in October 2011 (LD 1387) changes the requirements stream crossings and culvert installation. *The water resource professionals and environmental engineers at Sewall Company can help.*



Using our extensive GIS databases, Sewall offers cost-effective guidance for state and local governments, landowners, and developers who need assistance with a stream crossing or culvert replacement to meet the requirements for fish passage or to adequately handle stormwater runoff. This service can help you avoid penalties and fines for improper culvert installations under LD 1387.

Sewall can provide an assessment of stormflow, culvert sizing and installation requirements based on GIS site characteristics

for your location. We can provide you a combination of the following to meet your specific needs:

- watershed area upstream of your site;
- soil drainage type (influences rainfall retention);
- slope of watershed area (steeper slopes increase runoff);
- percent developed area of watershed (development increases runoff);
- percent agricultural area of watershed (may increase runoff);
- recent forest harvesting history (may increase runoff);
- habitat assessment relating to culvert replacement requirements under LD 1387 (2011);
- installation requirements for culverts including:
 - sizing and capacity
 - required depth of burial under LD 1387.

These services can be GIS-based with results provided by email or hardcopy. We are also available to visit your site for more detailed recommendations.



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