

# EPA GEOSPATIAL WEB MAPS AND DATASETS RELATED TO WATER RESOURCES

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**Abstract.** The US Environmental Protection Agency has many web mapping applications and GIS datasets related to water resources. One new one is the **How's My Waterway** web map and app (<http://watersgeo.epa.gov/mywaterway/>), which lets users quickly get information on their smart phone about waterbodies near them. The **MyWATERS** website (<http://www.epa.gov/waters/enviromapper/>) is another method of identifying the water quality status of a waterbody, as well as serving as a portal for downloading water quality monitoring data from the EPA STORET database. Many of the datasets that populate those maps come from the EPA **Watershed Assessment, Tracking and Environmental Results (WATERS)** portal (<http://www.epa.gov/waters/index.html>), which features a variety of datasets including impaired waters, permitted dischargers, monitoring stations and more, most of which are collected by state environmental agencies.

EPA has also been involved in the development of the recently-released version 2 of the **National Hydrography Dataset Plus (NHD Plus)** (<http://www.horizon-systems.com/nhdplus/>). NHDPlus is a GIS dataset that integrates the National Hydrography Dataset, National Elevation Dataset (NED) and Watershed Boundary Datasets (WBD). It features catchment areas (about 0.8 square mile on average) that have been delineated based on the NED and synched with the WBD. Various flow and landscape information attributes are provided in related attribute tables for detailed analysis.

Other new or recently updated water-related EPA data or web mapping resources include:

- **The Nitrogen and Phosphorus Data Access Tool** is data access tool to help states develop strategies to address nitrogen and phosphorus pollution. It allows users to see the extent and magnitude of nitrogen and phosphorus pollution in our Nation's waters, water quality problems that may be related to the pollution, and potential sources of the pollution. ([http://water.epa.gov/scitech/swguidance/standards/criteria/nutrients/npdat\\_index.cfm](http://water.epa.gov/scitech/swguidance/standards/criteria/nutrients/npdat_index.cfm))
- **Water Quality Portal** is a cooperative service sponsored by the EPA, the US Geological Survey (USGS), and the National Water Quality Monitoring Council to provide one access point for water quality data from the USGS National Water Information System (NWIS) and the EPA Storage and RETrieval (STORET) databases. (<http://www.waterqualitydata.us/>)
- **Clean Water Act Trends and Annual Non-compliance Report** is an interactive site that provides basic information about Clean Water Act direct dischargers, such as: number of permits issued, how frequently sampling data is reviewed to determine if violations occurred, frequency of violations, frequency of formal enforcement actions. (<http://www.epa-echo.gov/echo/ancr/us/>)
- **BASINS** (Better Assessment Science Integrating point and Non-Point Sources) is an environmental analysis system that integrates an open source GIS platform, national watershed data and environmental assessment and modeling tools into one package. (<http://water.epa.gov/scitech/datait/models/basins/index.cfm>)
- **National Estuary Program Mapper** is a tool for analyzing various datasets in the National Estuary Program areas of the US. Although there are no NEPs on the GA coast, there are many others in the Southeast. (<http://gispub2.epa.gov/NEPMap/index.html>)