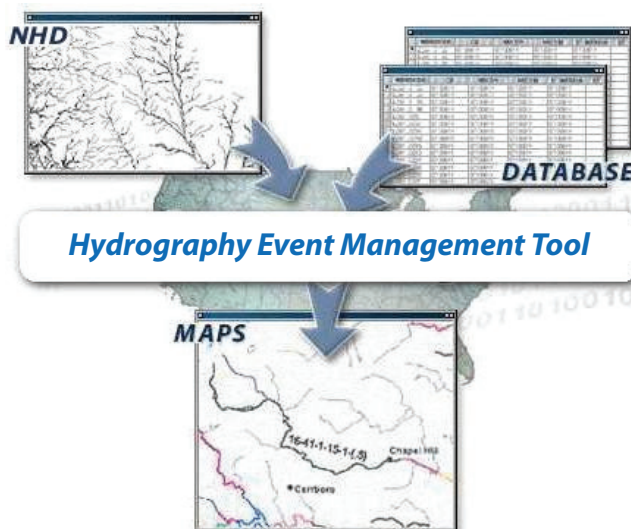




Hydrography Event Management (HEM) Tool

Background Information

The Hydrography Event Management (HEM) tool is a set of ArcGIS tools that can be used to create National Hydrography Dataset (NHD) events for both state and EPA programs. These events link water-related information, such as water quality assessments, to the underlying NHD surface water features. The HEM tool is implemented using the latest ArcGIS 9.x technology providing users with a stable, responsive platform to support their indexing needs. The HEM tool was developed by the Department of the Interior, Bureau of Land Management with support from EPA and the U.S. Geological Survey (USGS). Building on EPA's experience in working with NHD events, EPA is also developing a supplemental set of indexing functions for the HEM tool, which are available through the HEM EPA Add-On toolbar. The HEM tool and associated documentation are available for download from the USGS NHD Tools website: <http://nhd.usgs.gov/tools.html>

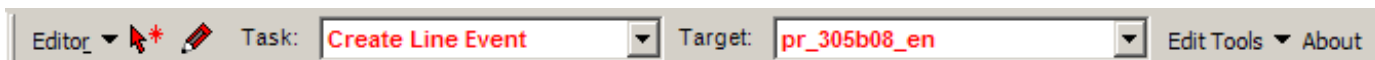


Key Features

- The HEM event structure is based on the NHD data model for event feature classes
- Event feature classes are now managed in geodatabases
- Users are no longer restricted to reach indexing at the 8-digit HUC level

Toolbars

Standard HEM Toolbar

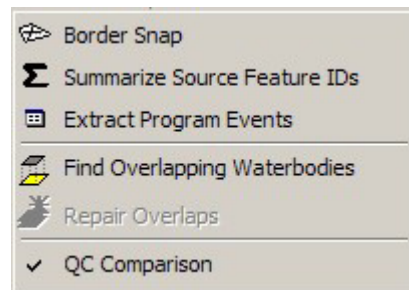


- Used to create, edit, and manage hydro events
- The Edit Tools dropdown includes the functions needed to create metadata, as well as additional edit tools that may be used while creating or editing events

EPA Add-On Toolbar



- Used to create, edit, and manage custom point, line, and area events
- The Edit Tools dropdown includes functionality that previous users of the PC-RIT enjoyed





Hydrography Event Management (HEM) Tool

National Hydrography Dataset

The HEM tool works with the NHDinGEO personal and file geodatabase formats. They operate on the NHDFlowline feature class (with a built network) when creating and modifying events.

- For more information about the National Hydrography Dataset, go to: <http://nhd.usgs.gov>
- NHDinGEO hydrography data is available online: <http://nhdgeo.usgs.gov/viewer.htm>

Planned HEM Enhancements

- Basic HEM Tool
 - Usability improvements to the candidate form
 - Ability to edit high-resolution NHD events that are managed as part of the NHD (e.g., stream gauges and dams)
- EPA Add-On Tools
 - Create off-NHD (custom) events
 - Extract events from different EPA water programs and previous cycle years
 - Find overlapping area events

Training and User Support

- User guide and tutorial will be available in 2010
- Training opportunities will also be announced in 2010
- Free user support and technical assistance for states and jurisdictions using the HEM tool for EPA programs. Contact us toll-free at 1-800-844-0638 or email us at owsupport@rti.org.



RTI is an independent, nonprofit research organization dedicated to providing technical services and conducting research that improves the human condition by turning knowledge into practice.

Contact: Amy Wesley-Snider
HEM Tool User Support, Training & Outreach
Water and Ecosystems Management Center
RTI International
(919) 316-3711
alwesley@rti.org
www.rti.org



Horizon Systems Corporation is the national expert for the National Hydrography Dataset (NHD and NHDPlus).

Contact: Cindy McKay
NHD and NHDPlus Support
Horizon Systems Corporation
(703) 471-0480
ldm@horizon-systems.com
www.horizon-systems.com



The Office of Water (OW) is responsible for implementing the Clean Water Act. Their activities are targeted to prevent pollution wherever possible and to reduce risk for people and ecosystems in the most cost-effective ways possible.

Contact: Tommy Dewald
NHD and NHDPlus Project Lead
US EPA Office of Water
(202) 566-1178
dewald.tommy@epa.gov
www.epa.gov/ow