



Water Resources

HRPDC Retreat 2012

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Water Resources: Bay TMDL

- HRPDC will reach out to Chesapeake Bay Program staff & Committees so localities have the best technical information & tools available.
- Communicate the need for using local land use data and recalibrating the model as soon as possible.

HRPDC should increase its involvement in the Bay Program and effectively advocate for local government interests.

Type of Land Use*	Corrections (acres)
Agricultural	3,016 less
Forest	5,254 more
Urban	16,386 less

* Not complete list of land uses.

Water Resources: Bay TMDL

- Participate in the Bay Program's evaluation process to allow more types of BMPs to be credited in the Watershed model.
- Investigate methods to monitor water quality so the need for nutrient reductions can be measured and compared to modeled requirements.

Nontidal Water Quality Monitoring Network

Chesapeake Bay Watershed



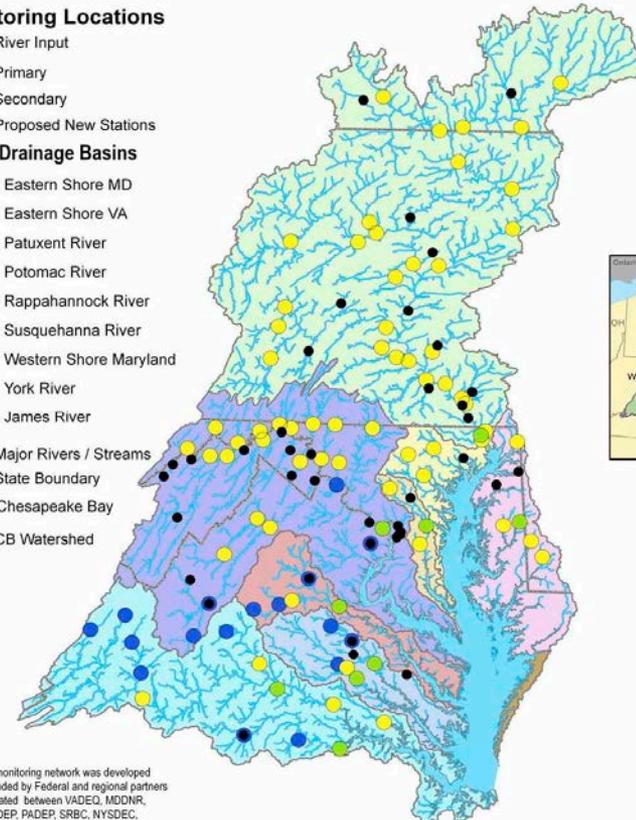
Monitoring Locations

- River Input
- Primary
- Secondary
- Proposed New Stations

Major Drainage Basins

- Eastern Shore MD
- Eastern Shore VA
- Patuxent River
- Potomac River
- Rappahannock River
- Susquehanna River
- Western Shore Maryland
- York River
- James River

- Major Rivers / Streams
- State Boundary
- Chesapeake Bay
- CB Watershed



Note: This monitoring network was developed in 2004, funded by Federal and regional partners and coordinated between VADEQ, MDDNR, USGS, WVDEP, PADEP, SRBC, NYSDEC, and DNREC. Monitoring is conducted using standardized protocols; frequency depends on monitoring site type.

Data Source: Chesapeake Bay Program.
For more information, visit www.chesapeakebay.net
Disclaimer: www.chesapeakebay.net/termsfuse.htm





Water Resources: Integrated Planning

- HRPDC will track EPA's proposed Integrated Planning process which allows localities to prioritize wastewater and stormwater improvements based on criteria selected by the locality.
 - Evaluate how this process has been implemented in other regions.
 - HRPDC could manage contracts for watershed plans which consider all water quality and quantity issues.



Bay
TMDL

Consent
Order



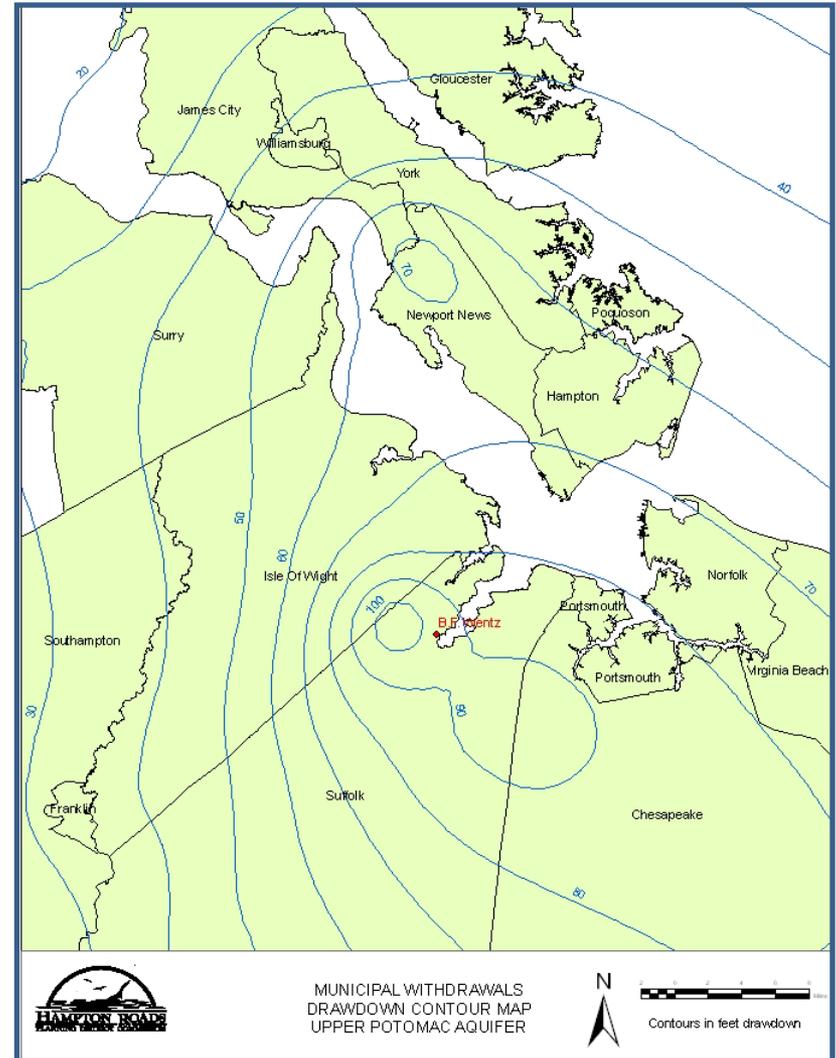
Beach
Closures

Reservoir
Water
Quality



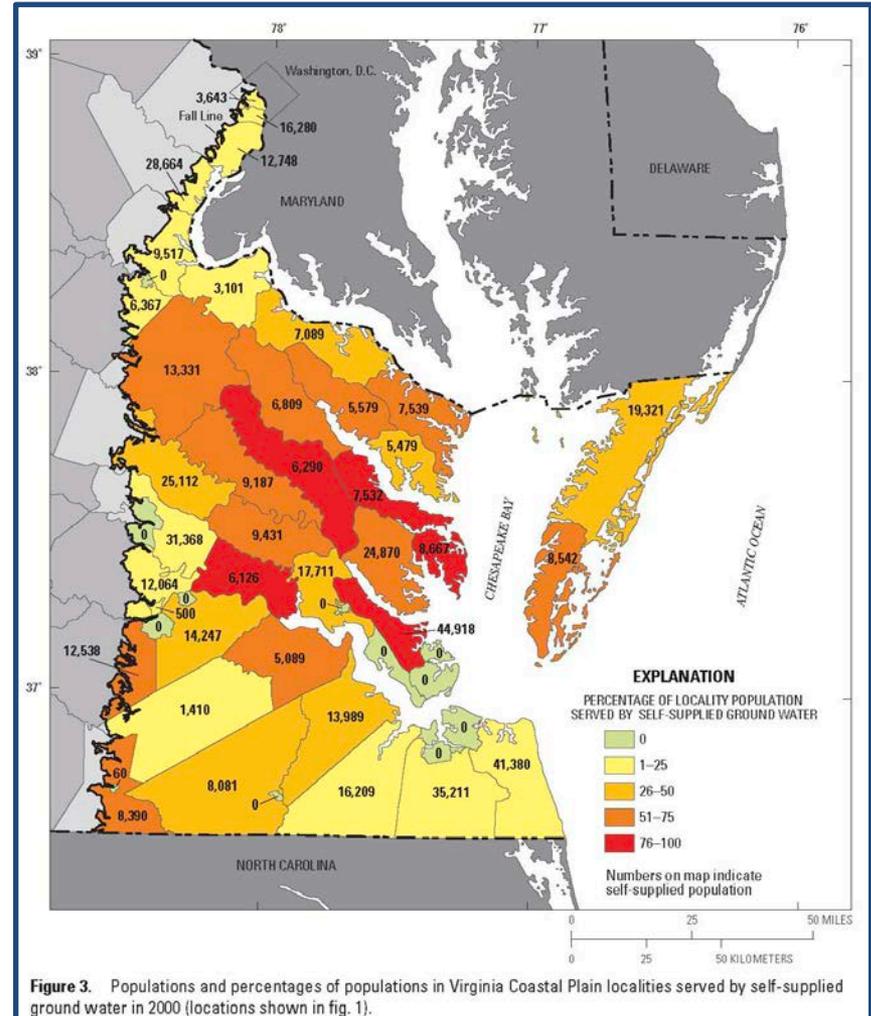
Water Resources: Groundwater

- HRPDC provides mitigation program required by localities' groundwater withdrawal permits.
- Allows citizens to recoup costs for fixing wells if municipal wells impacted them.



Water Resources: Groundwater

- Staff has capability to model proposed withdrawals to support permit applications and evaluate available withdrawals from different locations and aquifers.
- HRPDC can study the potential long-term availability of water for economic development and domestic use.



Source: Pope, J.P., McFarland, E.R., and Banks, R.B., 2008, Private domestic-well characteristics and the distribution of domestic withdrawals among aquifers in the Virginia Coastal Plain: U.S. Geological Survey Scientific Investigations Report 2007-5250, 47 p. (available online at <http://pubs.water.usgs.gov/sir2007-5250>)