MAP SHOWING LOCATION OF OBSERVATION WELLS IN RHODE ISLAND

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EXPLANATION

OBSERVATION - WELL DATA USES

Observation-well data can be used to investigate the following topics. Included observation wells do not necessarily provide all the information needed to investigate the following topics, but the data was collected in cooperation with other nearby investigators.

CONSTRUCTION:
- Locating and designing of septic systems
- Evaluating landfills and other disposal sites
- Developing land use plans to avoid groundwater and soil contamination
- Determining the need for downsizing (pumping) of construction sites
- Preventing exposure of underground storage tanks to air

WATER QUALITY:
- Monitoring induced infiltration of surface water due to pumping of groundwater
- Locating, monitoring, and cleaning up groundwater contamination sources
- Determining the aesthetic capacity of groundwater
- Monitoring water use

STATISTICAL HYDROLOGIC ANALYSIS:
- Estimating maximum groundwater levels in areas of proposed underground tank storage
- Calculating groundwater flow models
- Monitoring groundwater flow due to major changes
- Decreasing drawdown of long-term groundwater levels
- WATER SUPPLY:
- Monitoring for depletion of groundwater storage
- Determining public and private supply well supplies
- Augmenting surface-surface water supplies with public or private supplies
- Determining groundwater flow and infiltration losses
- Assessing the effects of evapotranspiration and seasonal infiltration on groundwater levels

The U.S. Geological Survey (USGS) operates a network of observation wells, including some operated in cooperation with the Rhode Island Water Resources Board and the Rhode Island Coastal Resources Board. The data collected from these observation wells is primarily used to study the groundwater resources of Rhode Island. The groundwater data is available for public use and can be obtained from the U.S. Geological Survey.

Reference:

SCALE 1:25,000

ATLANTIC

OCEAN