

Community saltwater intrusion study

Analyze homeowner-collected water samples for saltwater intrusion in their domestic wells.

Concern:

Homeowners, especially those on the extended peninsulas where the water table and aquifer lens is shallow, have expressed concern– or experienced – saltwater intruding into their wells. These include the Menantic and Silver Beach neighborhoods, (Ram Islands?)

Project:

Facilitate testing of the chloride levels in household water to gauge salt-water intrusion. Open to all homes and locations.

Contributors:

- SI Water Advisory Committee: Funding testing kits and sampling supplies
 - AquaPhoenix, or
 - Hach
 - Collection containers and labels
- SI School, Dan Williams, HS Science Dept. w/student(s)
 - Sample logging
 - Create standards
 - Tests
 - Chloride
 - Others @ HS option
 - Data logging
 - Area analysis
- Joe Finora, Town Engineer for analysis consultation

Process:

- Sample collection containers at distribution point(s).
- Homeowners collect a sample after a free running period (5 min?)
- Homeowner labels their container with tel. # and address or cross-street.
- Sample drop-off at ???
- HS lab work beginning Sept.

Products

- Map of chloride levels by area, similar to Center nitrate study.
- Shore-line to well distances if address detail allows.

Budget

- Lawn signs at traffic circles - \$50
- Container - \$0.50 (ELIH donation of sample collectors?)
- Tester - \$2.50 (30 tests @ \$45/cs + s/h)
- X Response ???
- = ???