Private Well Drinking Water Forum October 23, 2018 Southbury Town Hall

Presented By:

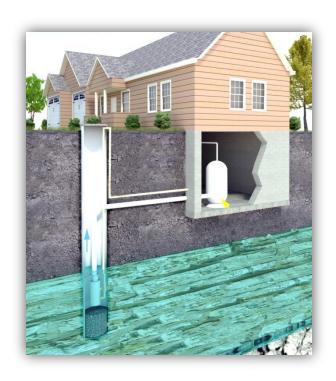
Pomperaug River Watershed Coalition

In Collaboration With:

Connecticut Department of Public Health Pomperaug District Department of Health

Sponsored by:

Southbury Community Trust Fund Connecticut Community Foundation



Private Well Drinking Water Forum

A Well Is A Deep Subject

- Welcoming Remarks / "Well Water 101"
 Len DeJong
 Pomperaug River Watershed Coalition
- Water Quality Issues and Testing
 Tiziana Shea
 CT DPH Environmental Health, Private Well Program
- Local Issues/PDDH as a Resource Neal Lustig
 Pomperaug Department of Health
- Follow-up Q&A/Closing Remarks
 Please Visit the Exhibition Tables

Well Water 101

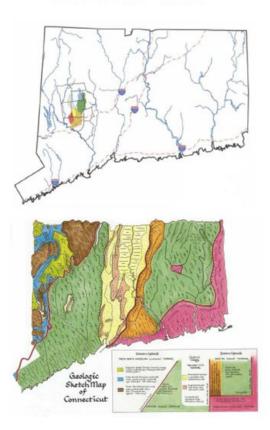
Len DeJong – Pomperaug River Watershed Coalition

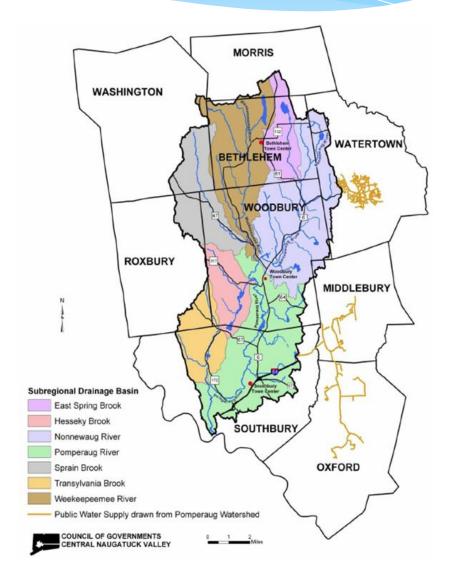
- What is a private well?
- Where does my water come from?
- How are private wells constructed?
- How much water is in my well?
- What are the types of pumps?
- How does my private well water system work?
- What are examples of treatment systems?
- What are five important ways to protect your private well water?



Pomperaug River Watershed

A 90-square mile watershed that drains to the Housatonic River Watershed in western Connecticut and that has geology mimicking the centrally located Connecticut River Watershed.





SCIENCE



Science is our first priority. We carry out studies that examine the river water, the



groundwater, and the landscape to better understand and steward the health of our watershed. We want to ensure that our rivers, streams, and aquifer will be a trusted drinking water source, a vital habitat for aquatic wildlife, and a vibrant recreational resource for generations.



For more information:

(203) 263-0076 www.pomperaug.org 39 Sherman Hill Rd, Woodbury, CT

THE POMPERAUG RIVER WATERSHED: A TREASURE IN OUR MIDST.

What is a watershed?

It is all the water in our rivers, streams, lakes, wetlands and underground aquifers. It is also the landscape that surrounds these waters.



A watershed is the land that stretches from water's edge to the tops of nearby hills. Rain that falls here is either absorbed into the ground, replenishing the aquifer, or flows downhill as runoff until it reaches a river, stream, lake, or wetland.



The Pomperaug River
Watershed is a 90-square mile
watershed that drains to the
Housatonic River Watershed in
western Connecticut and that
has geology mimicking the
Connecticut River Watershed.





EDUCATION



Education is an essential service to our community.

We teach school children about the way and wonder of the watershed. We also teach our neighbors how they can protect this precious resource we all share. We provide information to governments and businesses that make critical decisions about how communities use our water.



Your stewardship matters!

Learn more about the watershed. Become a Member. Make a donation. Volunteer to help. Like us on Facebook.

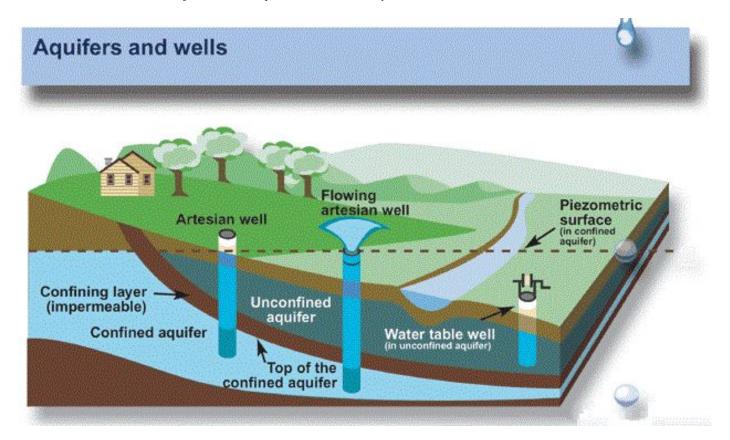
What Is A Private Well?

- Provides water to a single end user (residential home)
- Is not a public water supply (Heritage Village Water Company)
- Is not regulated by the EPA
- Is governed by local health regulations (placement of the well)
- Provides drinking water to an estimated 867,000 Connecticut residents



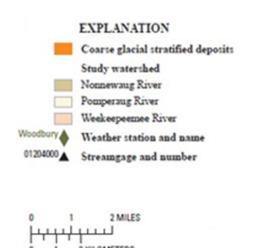
Where Does My Water Come From?

- Unconfined Aquifer (stratified drift)
- Confined Aquifer (bedrock)

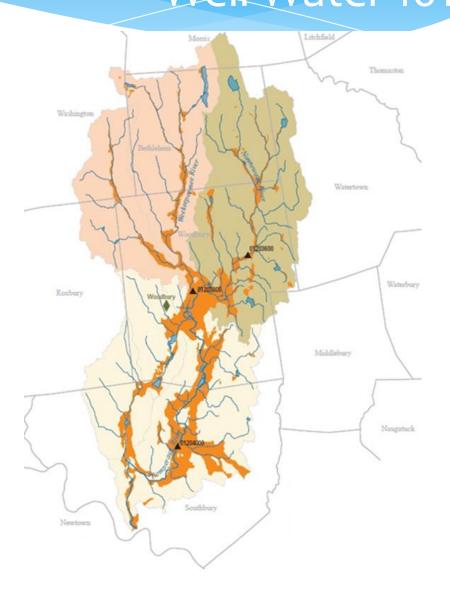


Unconfined (Stratified Drift) Aquifer

Pomperaug River Watershed

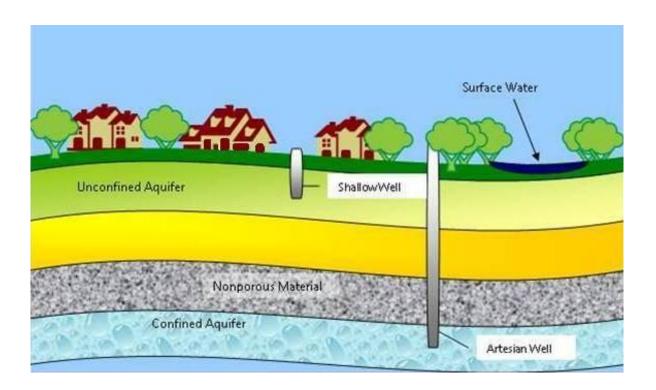


Base from U.S. Geological Survey, 1:24,000, 1969 to 1984 Connecticut State Plane projection

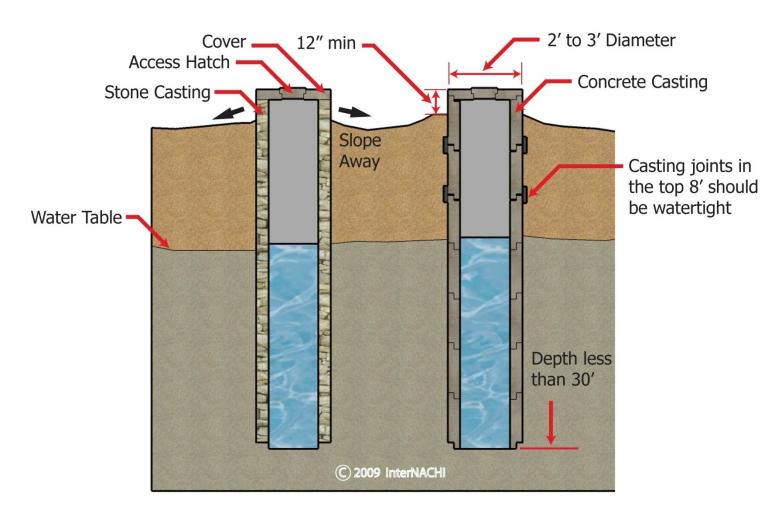


How Are Private Wells Constructed?

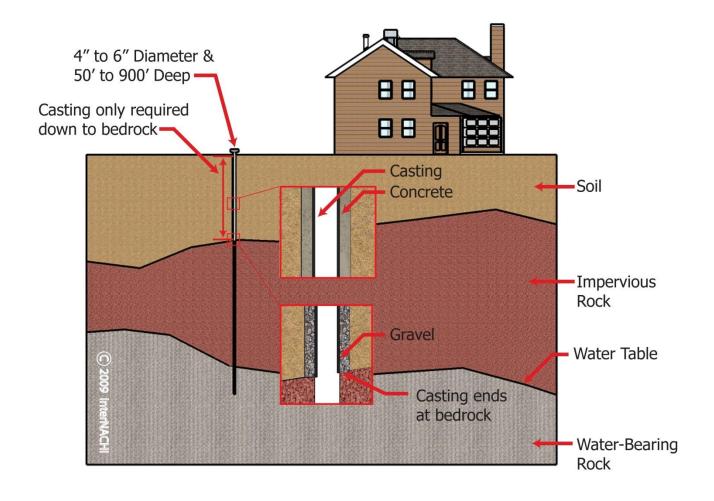
- Dug/Driven Wells Unconfined Aquifer
- Drilled Wells Confined Aquifer



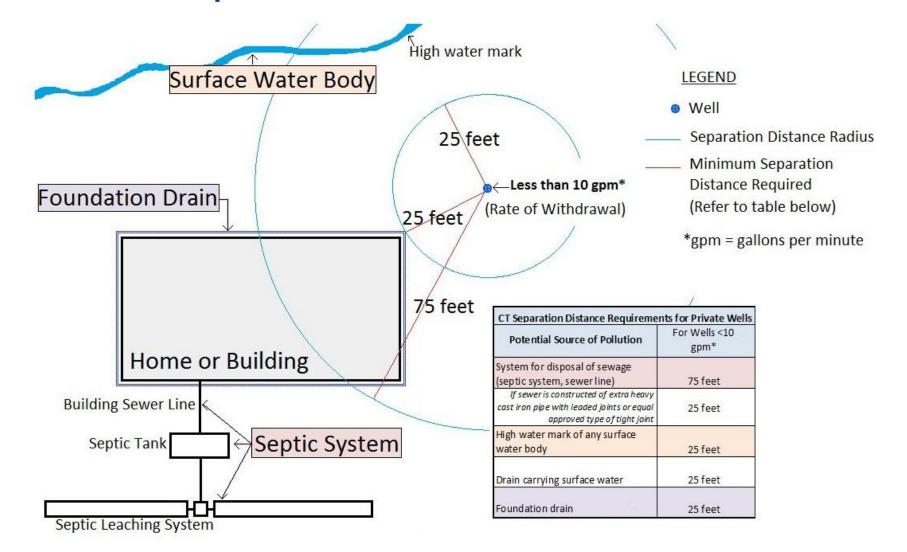
Dug Wells



Drilled Well

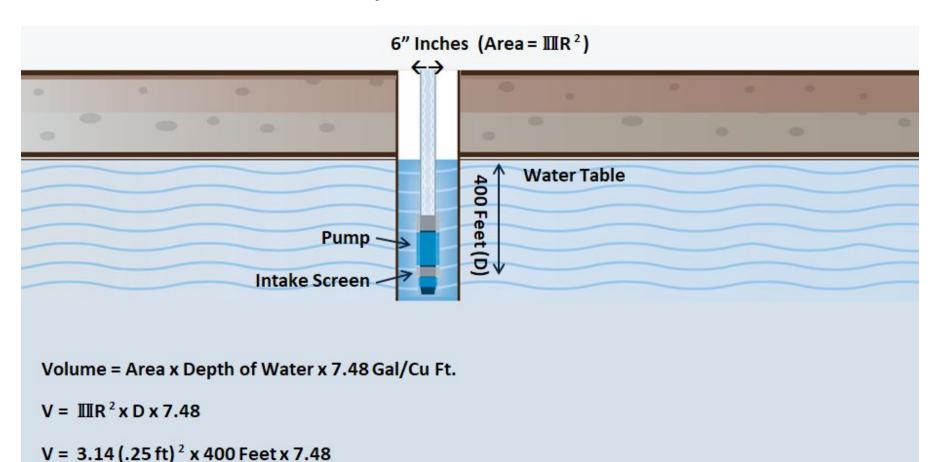


Private Well Separation Distances

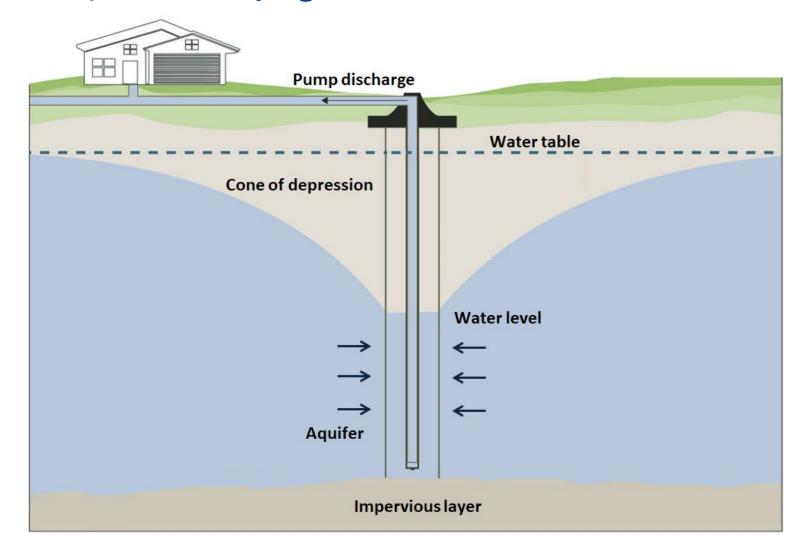


How Much Water Is In My Well?

V = 587 Gallons



Static/Dynamic Pumping Levels



What Are The Types Of Pumps?

- Centrifugal
- Jet Pumps
- Submersible







How Does My Private Well Water System Work?





What Are Examples Of Treatment Systems?





What Are The Five Important Ways to Protect Your Private Well Water?

- 1. Proper Location Follow All Health Codes
- Proper Construction Performed by a well driller or pump installer registered with the CT DCP
- 3. Keep Contaminants Away
- 4. Seal Abandoned Wells Follow RCSA Regulations
- 5. Test Your Private Well Water

