

Compass Plaza Well TCE Site

Public Meeting

May 25, 2010



Missouri
Department of
Natural Resources



Groups Involved

- Missouri Department of Natural Resources (DNR)
- Missouri Department of Health and Senior Services (DHSS)
- City of Rogersville
- Greene County Resource Management Department/Environmental Section
- Environmental Protection Agency (EPA)
- Agency for Toxic Substance and Disease Registry (ATSDR)

TCE

- Also known as:
 - Trichloroethene
- Colorless or blue
- Sharp, sweet odor in concentrated form
 - like chloroform
- Sinks in Water
- The Maximum Contaminant Level (MCL) for TCE is 5.0 micrograms per liter (ug/L), also known as parts per billion (ppb) in drinking water

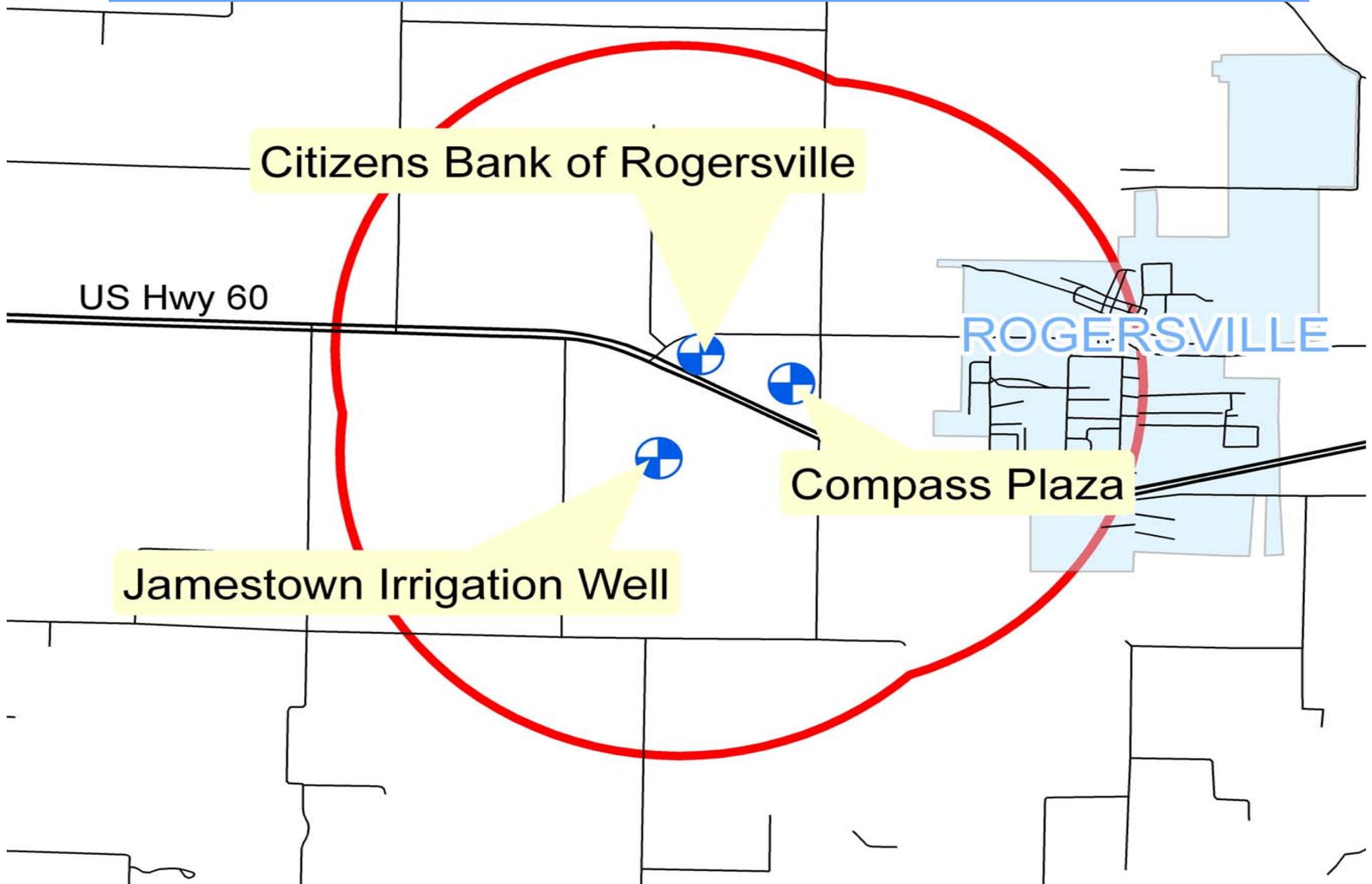
TCE

- Uses:
 - clean (degrease) fabricated metal parts
 - Production of some textiles
 - Found in many common household products (i.e. spot removers, adhesives, paint removers)
 - TCE not commonly used in industry due to environmental problems it can cause

History

- DNR's Public Drinking Water Branch notified the Hazardous Waste Program (HWP) in March 2010 of the TCE detections of three wells in the Rogersville area
- HWP was requested to conduct investigation into TCE contamination

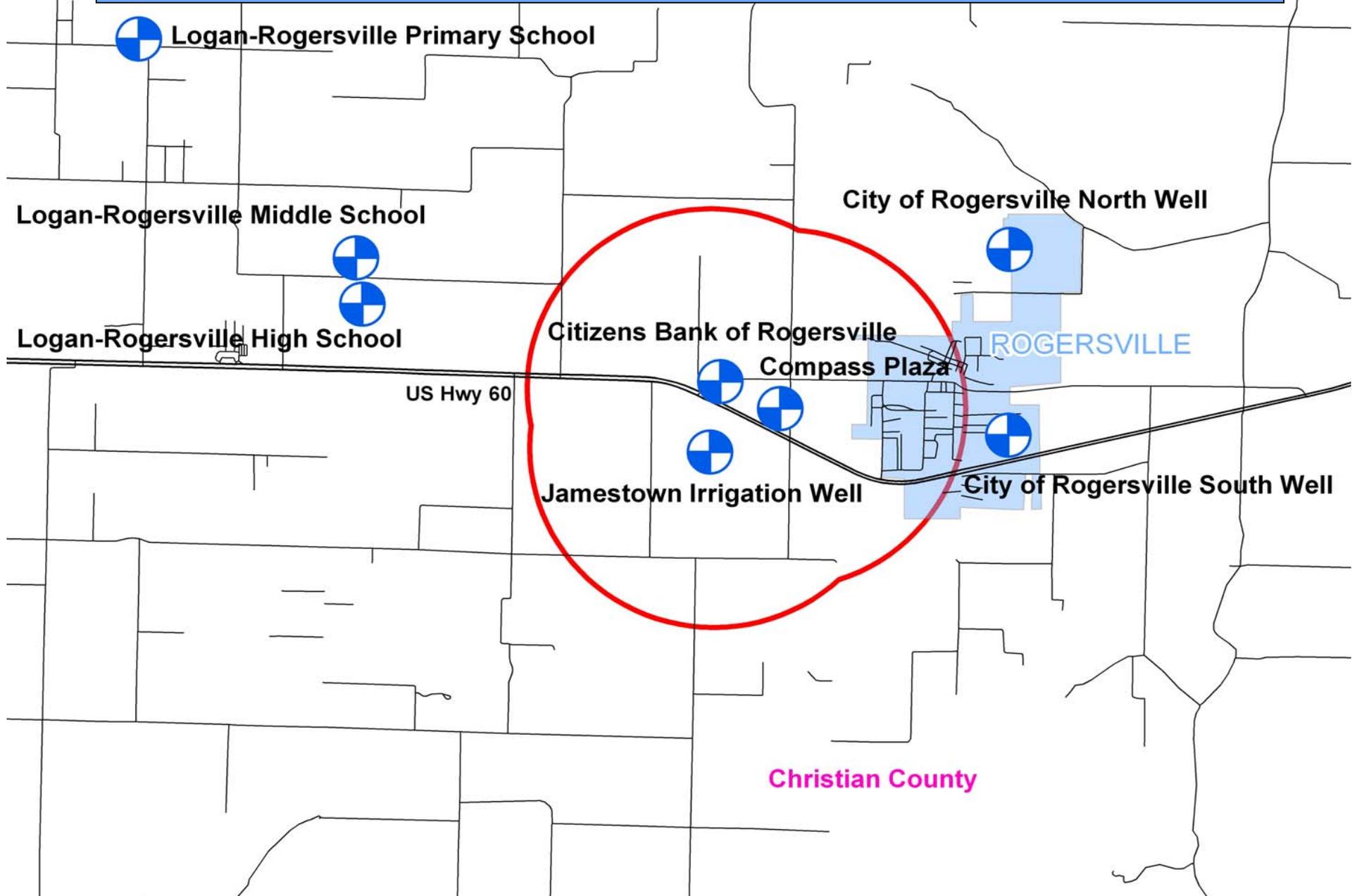
Location of 3 Initial Contaminated Wells



Public Wells Tested

- The Logan-Rogersville Primary, Middle and High Schools and Rogersville's two municipal water wells have not shown TCE contamination in any past or present sampling

Location of Public Wells Tested



Public well monthly TCE sampling

Seven wells tested on monthly basis:

Rogersville Well #1(North well)

Rogersville Well #4 (South well)

Logan Rogersville Primary School

Logan Rogersville Middle School

Logan Rogersville High School

Compass Plaza

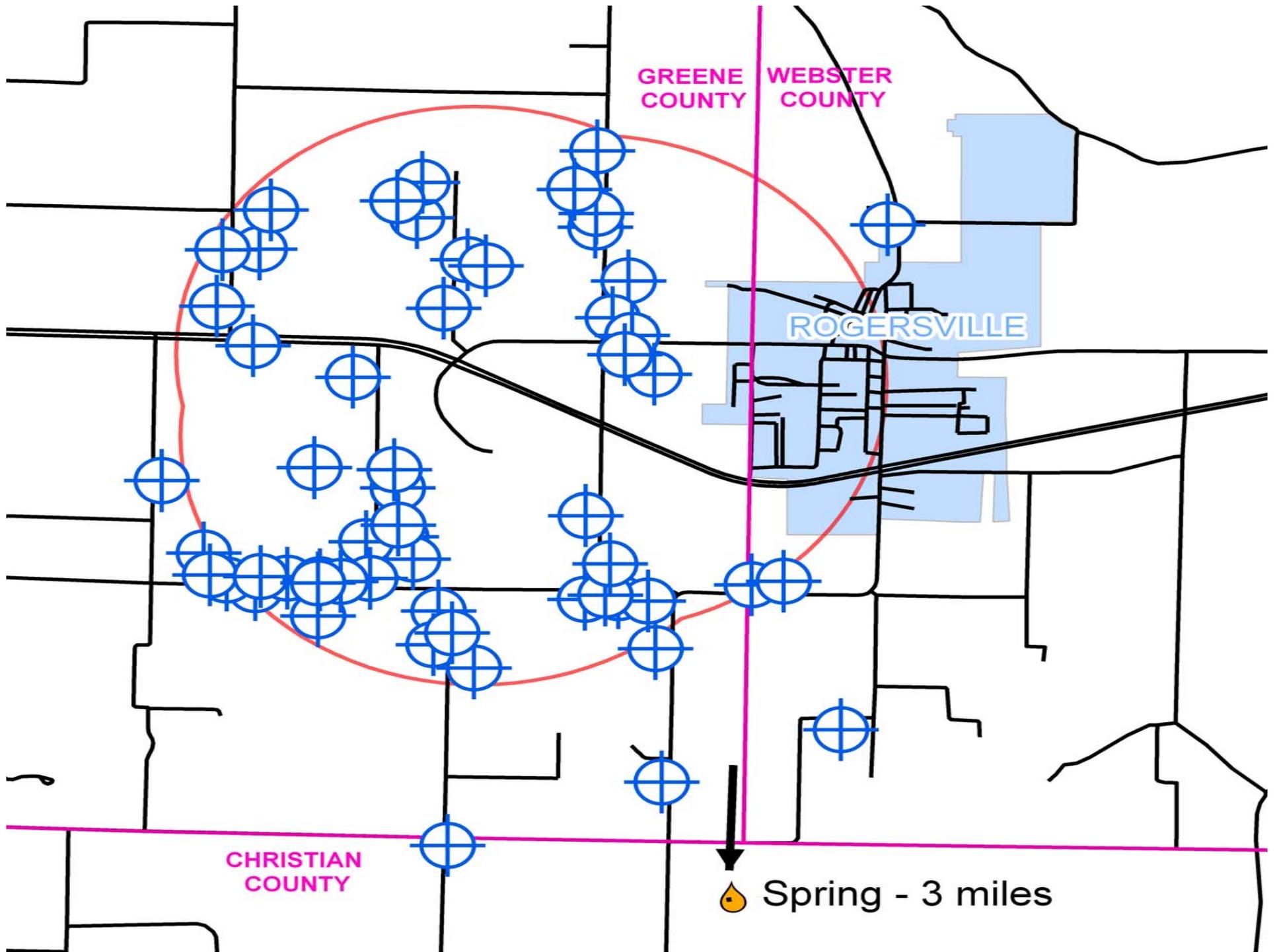
Citizens Bank of Rogersville

History (cont'd)

- HWP immediately started identifying and sampling private drinking water wells, concentrating on wells within in a 1-mile radius of the three contaminated wells

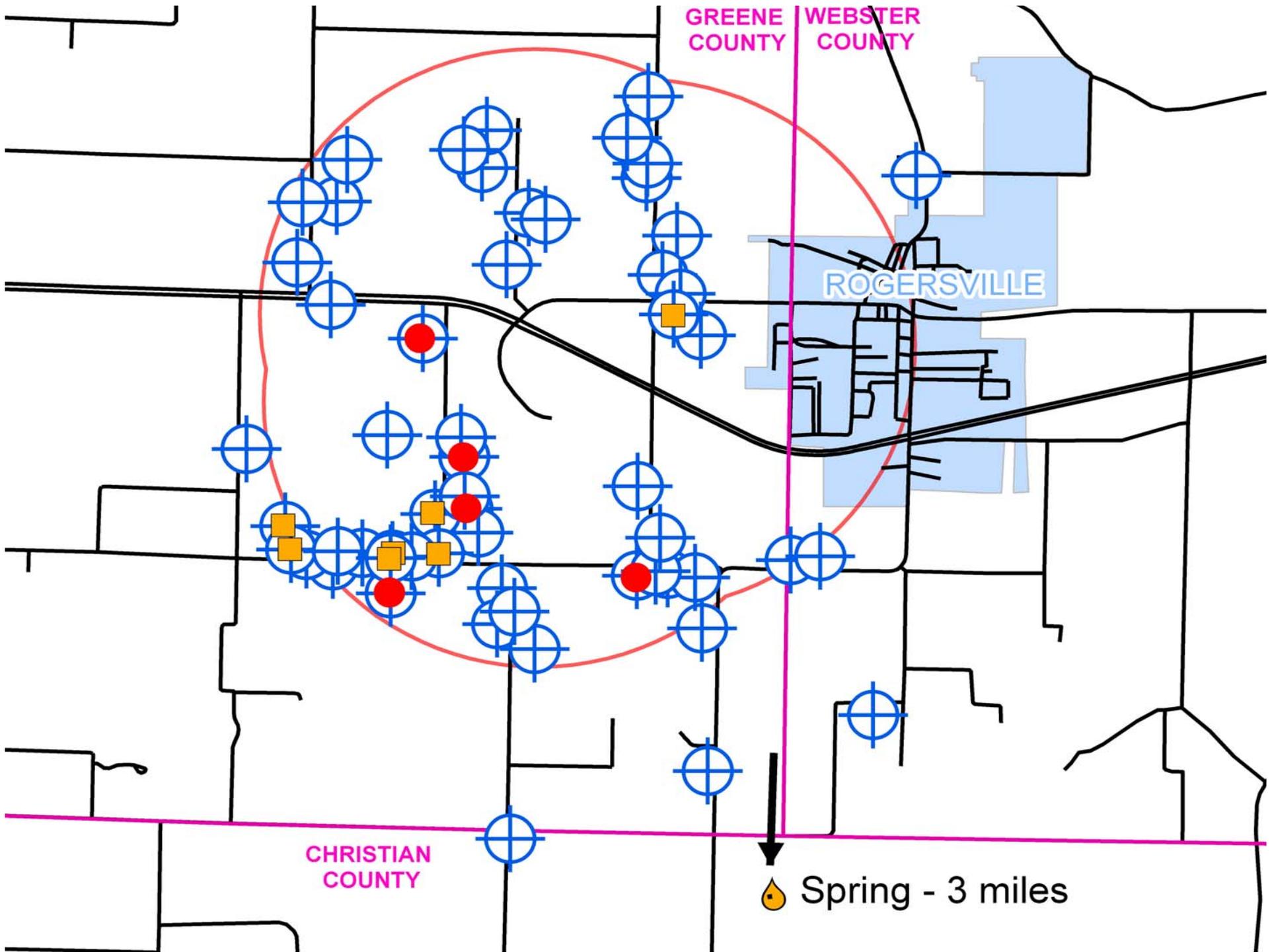
Sampling Conducted

- 63 wells and 1 spring were sampled for TCE between Mar 30-Apr 27, 2010



Sample Results

- TCE detected in 12 well samples and one spring
- TCE detected above 5 ppb in 5 of 12 well samples



What We Have Done

- All owners whose wells were sampled, sent a letter informing them of their well result
- Owners of wells that had TCE greater than the MCL of 5.0 ppb, contacted by DHSS

Health Contact

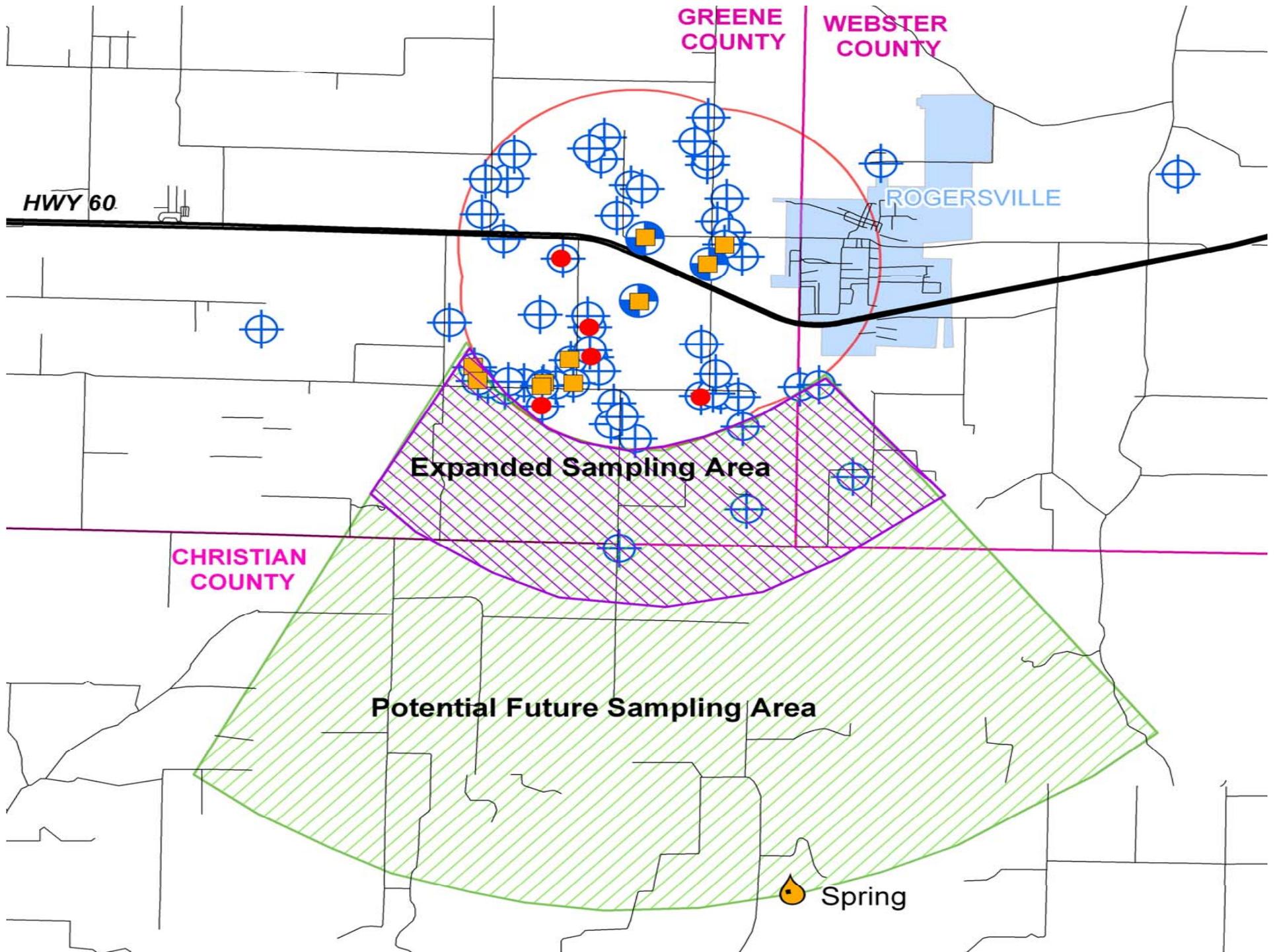
- DHSS staff : Jeff Wenzel at (573)751-6102
or Jeff.Wenzel@dhss.mo.gov

What We Have Done (cont'd)

- Coordinated with EPA to provide assistance to owners whose wells have TCE > 5.0 ppb

Next Steps

- Groundwater sampling of private wells & springs in the expanded area of concern
- Soil sampling at potential source areas



Well Sampling Requests

- If you live within the designated area of concern we would like to sample your well:
 - name, address, and telephone number
 - Additional helpful information:
 - Well installation date
 - Well depth
 - Casing depth

Next Steps (cont'd)

- Follow-up public meeting to present the results of the investigation
- Continue to update Rogersville website
<http://dnr.mo.gov/env/hwp/sfund/rogersville.htm>
- EPA conduct removal actions to assist owners whose wells have TCE > 5.0 ppb

Removal Process

- Assessment teams investigate sites to evaluate the potential exposure of people to hazardous substances
- When assessment teams determine an exposure or threat of an exposure exists, the site is referred for a removal action

Removal Process

- In the removal action, steps are taken to manage the risks associated with the exposure
- Actions to prevent exposure are initially considered based on how effectively and quickly they can be implemented with available resources
- More comprehensive long-term actions will also be considered after exposures have been initially reduced and more information about the site has been gathered

Removal Process

- Typically, whole house water treatment systems have been used to bring TCE exposures below the Maximum Contaminant Level (MCL) of 5 ppb
- Ongoing monitoring of the treatment systems will occur to ensure their effectiveness

Statutory Limitations

- The removal program is limited to actions less than 12 months in duration and under \$2,000,000 in cost
- Additionally, cleanups of groundwater sources cannot be performed under the removal program (currently, the source of the TCE in the groundwater has not been determined)
- Additional EPA programs are being evaluated while the initial investigation and protective actions are being implemented

Whole House Water Treatment System Example



Whole House Water Treatment System Example



Contact Information

- Pia Capell, MDNR
 - pia.capell@dnr.mo.gov
 - (573) 751-2115
 - P.O. Box 176, Jefferson City, MO 65102
- Doug Ferguson, US EPA
 - doug.ferguson@epamail.epa.gov
 - (913) 551-7221
 - U.S. EPA, Region VII
 - 901 North 5th Street
 - Kansas City, KS 66101

QUESTIONS?