



Water Quality of Private Wells in Texas

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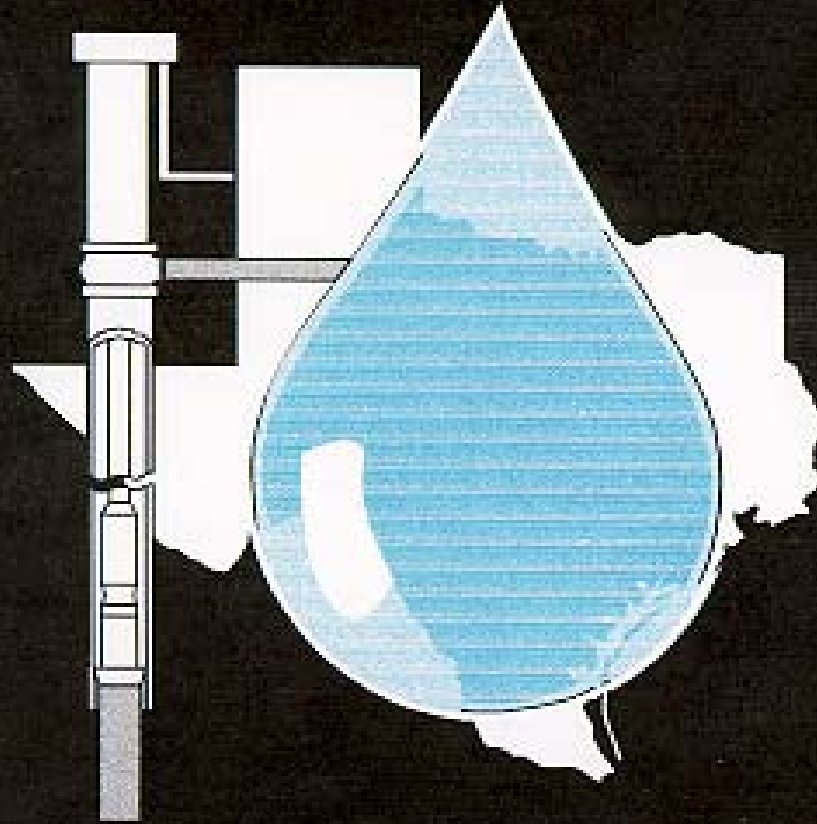
Dennis Hoffman

Exp. Station Research Scientist

Target Audience



TEX ★ A ★ Syst



**Rural Well Water
Assessment**

Why Well Screening?

- 💧 Cost Effective and Easy
- 💧 TCFF/Agent Needs
- 💧 Information Exchange
- 💧 Protect Family & Public Health
- 💧 Livestock and Plant Protection
- 💧 TEX*A*Syst Education
- 💧 New Audience



Water Well Screening Program



Samples screened on-site

Water Screened For Fecal Coliform



Nitrate and TDS Screening



Arsenic and Lead Screening





Teachable Moments

Screening Results

💧 Reporting Dates – May 1999 to September 2003

💧 Bacteria

💧 # Samples – 4,551

💧 # Fecal Positives – 469, 10.3%

💧 Nitrate

💧 # Samples – 4,369

💧 Average NO₃ Conc. – 2.6 mg/L

💧 Range - >1 to < 30 mg/L

Screening Results

Salinity (TDS)

- # samples – 645
- Average Concentration – 1,426.3 mg/L
- Range - > 100 to > 12,000 mg/L

Lead

- # Samples – 331
- Average Pb Concentration – 2.9 $\mu\text{g/L}$
- Range - <2 to 18 $\mu\text{g/L}$

Arsenic

- # Samples – 91
- Average As Conc. – 2.0 $\mu\text{g/L}$
- Range - >2 to 2.5 $\mu\text{g/L}$

Other Wellhead Educational Issues

Our Mission:

*To inform the public of the risk brought about by abandoned wells,
and to promote the proper procedure when plugging abandoned wells.*



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Water Websites

- <http://waterhome.tamu.edu>
- <http://water.tamu.edu>
- <http://abandonedwell.tamu.edu>



God Bless You and Your Family



God Bless America