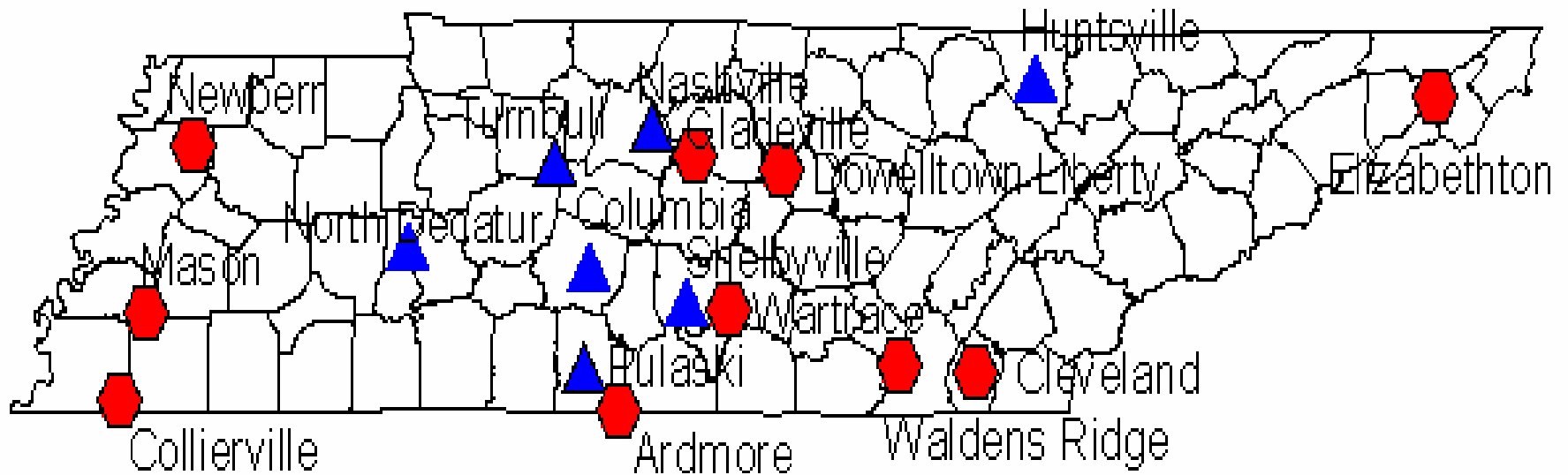


Walden's Ridge U. D.







Cleveland U. D.

Golf course pesticide mixing area upgradient

Of water supply spring

Proposed Department of Transportation road widening

Project threatening spring

Cleveland Area



Golf course

Pesticide mixing

Spring box

200 yd



Elizabethton's Big Spring



Proposed Site for Drip Disposal Field; Elizabethton, TN



Challenges

Struggling with the full spectrum of water systems

Conscientious/Overachievers.....Asleep at the Wheel

**Getting them out of their offices and water plants
To ACTUALLY look at what is going on upstream**

Keeping Them Aware of the Requirements

In the Face of More Pressing Needs

Disinfection Byproduct Rule

Long Term 2 Surface Water Treatment Rule

(“Cryptosporidium Rule”)

Getting the water systems the information they need

From state databases (NPDES)



Challenges

- 1) **Participate in Operator Certification Training**
- 2) **Mailout reminders to individual water systems**
- 3) **Require photographs in the vicinity of the intake**
- 4) **Encourage the use of GIS and partnerships
With city engineers, planning offices, etc. –
supplying Databases/GIS files**
- 5) **Development of Guidance Document &
Specific Workshops**
- 6) **Partnership with TVA & TAUD**
- 7) **Watersheds affecting Water Supplies Law**



2006 Amendment Tennessee Water Quality Control Act

69-3-107 New Section

{The Commissioner of TDEC will}

**Perform a thorough and ongoing study
of and prepare recommendations**

For the

Protection of watersheds and the

Control of sources of pollution

In order to assure the future

Quality of potable drinking water supplies

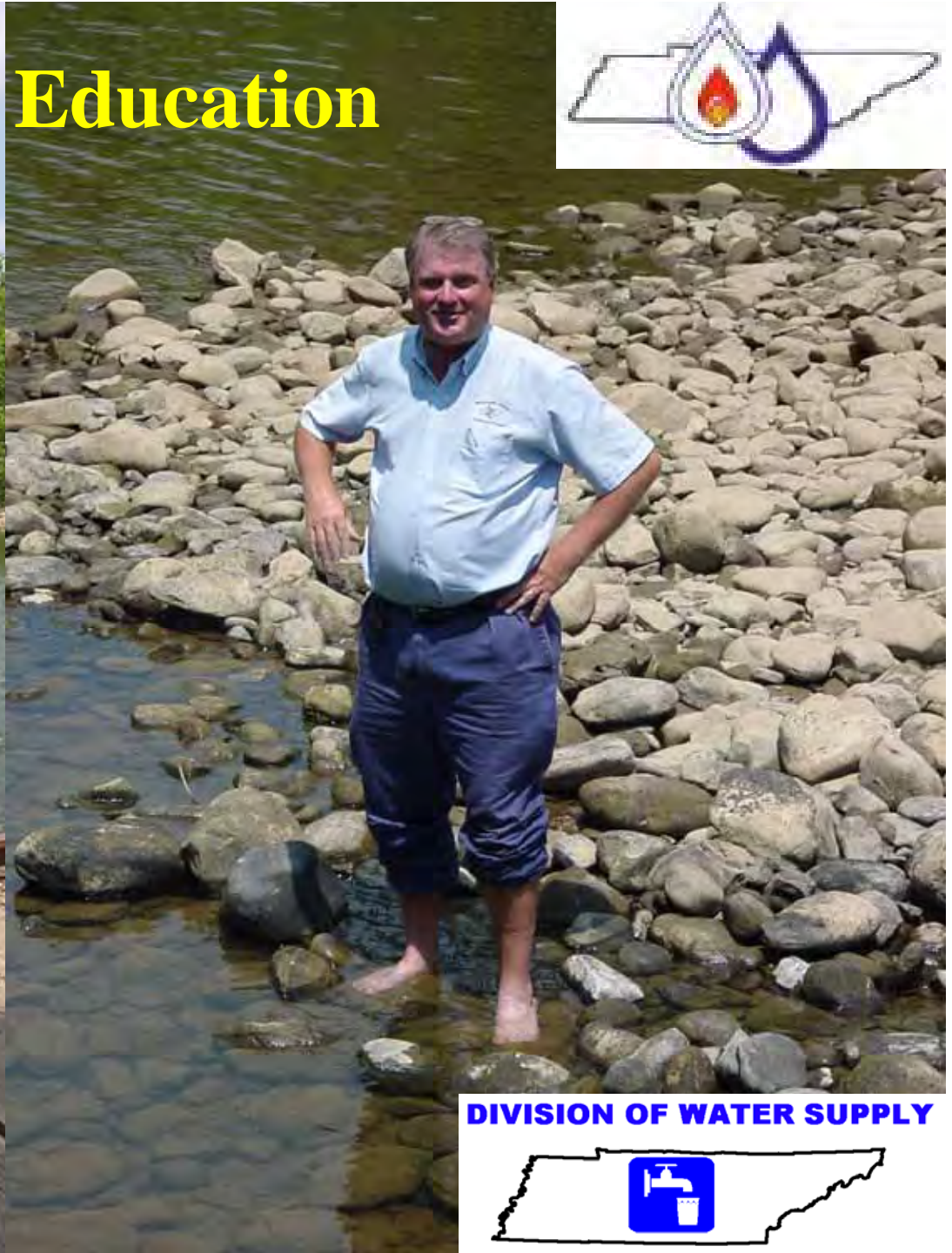
throughout the state.



2006 Amendment Tennessee Water Quality Control Act

**...Initial findings and recommendations shall
Be presented to the governor and the general
Assembly no later than February 1, 2007,
And annually thereafter.**

Public Education



DIVISION OF WATER SUPPLY



Source Water protection is the ongoing process on protecting our public water sources from contamination. This DVD contains the following three video programs dealing with Source Water protection:



"Protecting the Source"

Grades 3 - 5 : 30 minutes

A student using video conference technology finds out what it takes to keep our water sources safe from contamination.



"Source Water Protection in Tennessee"

Grades 6 - 12 : 13 minutes

A concise exploration of our water sources and what Tennesseans are doing to keep them safe.
*Also in Spanish



"True Source Water Stories"

Industry : 23 minutes

Several interviews with people across Tennessee who deal with Source Water protection on a daily basis.

[www.state.tn.us/
environment/
videos/#water](http://www.state.tn.us/environment/videos/#water)

para el 4to grado de escuela elemental o grados superiores.

- [Gotas de agua en océanos de arena: Los recursos de agua subterránea del Oeste de Tennessee](#) (10.7 MB)
- [Gotas de agua en océanos de arena: Los recursos de agua subterránea del Oeste de Tennessee](#) (44.2 MB)

Hollow Ground: Land of Caverns, Sinkholes and Springs

Owing to the abundant karst (limestone areas characterized by caves, sinkholes and springs) in Middle and East Tennessee, it is critical for the general public to be made aware of the unique concerns of karst and the delicate balance that must be maintained if karst areas are to be protected from pollution. This video provides an elementary overview of the geologic conditions and environmental consequences of living in karst areas. Video intended for 4th grade and above.

- [Hollow Ground: Land of Caverns, Sinkholes and Springs](#) (12.6 MB)
- [Hollow Ground: Land of Caverns, Sinkholes and Springs](#) (53.3 MB)



TDEC: East Tennessee Environmental Conference - Microsoft Internet Explorer

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Address <http://www.state.tn.us/environment/videos/> Go Links >>

Water Videos

Drops of Water in Oceans of Sand: Ground Water Resources of West TN

The sand aquifers of West Tennessee are valuable, high quality resources that are vulnerable to contamination. The public recognition of the threat to waters once thought to be immune from contamination is a crucial step in protecting water supply sources. This video provides a elementary overview of the sand aquifer settings of West Tennessee and their vulnerability to contamination. Video intended for 4th grade and above.

- [Drops of Water in Oceans of Sand: Ground Water Resources of West TN](#) (9.9 MB)
- [Drops of Water in Oceans of Sand: Ground Water Resources of West TN](#) (40.6 MB)

Gotas de agua en océanos de arena: Los recursos de agua subterránea del Oeste de Tennessee

Los mantos acuíferos del Oeste de Tennessee son un recurso valioso y de alta calidad vulnerables a la contaminación. Un punto crucial en la protección de estas fuentes de agua, que se creían inmunes a la contaminación, es que el público reconozca la amenaza a la que están expuestas. Este video nos ofrece una visión general, del estado de los mantos acuíferos del área oeste de Tennessee y su vulnerabilidad a la contaminación. Este video es apropiado para el 4o. grado de escuela elemental o grados superiores.

- [Gotas de agua en océanos de arena: Los recursos de agua subterránea del Oeste de Tennessee](#) (10.7 MB)
- [Gotas de agua en océanos de arena: Los recursos de agua subterránea del Oeste de Tennessee](#) (44.2 MB)

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Where Do We Go From Here?

The State of Tennessee has a contract with the Tennessee Valley Authority to help look at the future of Source Water Protection in Tennessee.



Strategies for Successful Source Water Protection

1) State and water supplier to make source water protection a high priority and create policies and programs and encourage local efforts.

- operation policies for supplier
- resource allocation
- training
- testing



Strategies for Successful Source Water Protection

2) Distribute information to decision makers and local establishments that are in the Source Water Protection Area.

- communication
- maps
- overlays
- physical canvassing



Strategies for Successful Source Water Protection

- 3) Provide capacity-building grants to local groups to help lead watershed and source water protection
 - Water systems in Tennessee produce high quality drinking water. They know how to find funding for plant operation and expansion but they do not have the where with all to find money for areas outside the production or distribution of drinking water



Strategies for Successful Source Water Protection

- 4) The State should partner with other state offices that have implementation funding or regulatory tools to advance source water protection goals and watershed protection.
- Local planning
 - USDA Natural Resources Conservation Service
 - TN DOA Non-point Program
 - TDEC UST
 - TDEC Solid Waste Management
 - TDEC Ground Water Protection
 - TDWC Water Pollution Control



Questions

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