

## Explanation Of Technical Terms

- MCL** **Maximum Contaminant Level**  
The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG (Maximum Contaminant Level Goal) as feasible, using the best available treatment technology.
- THM** **Trihalomethanes**  
Trihalomethanes are a byproduct of drinking water formed during chlorination.
- HAA** **Haloacetic Acids**  
Haloacetic Acids are a byproduct of drinking water formed during chlorination.
- AL** **Action Level**  
The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Mg/L** **Milligrams per Liter or ppm (Parts Per Million)**  
This corresponds to one minute in two years or a single penny in \$10,000.
- ppb** **Parts Per billion**  
This corresponds to one minute in 2,000 years or a single penny in \$10,000,000.
- ND** **Not Detected**  
The constituent is not detected or is below detection limits.



**Board of Directors , 1971**  
From left to right. Front row, L. N. Evans, B. L. Letlow, Cemp Garrison, Grady Tripp. Second row, Wayne Durham, T. E. Childress, Willie Latham, Earl Harper, Judge Porter

### Message from the Manager

After completing several large capital projects last year, 2010 was a year of "testing and readiness." The water system improvements provided enhanced water pressure and fire flows for all of our customers. Anytime that you make significant changes of this nature to the system, several operational tests must be conducted to ensure that the system performs as designed. I am proud to say that our system has been upgraded and our customers can now enjoy improved service levels that were not possible in the past. I am also pleased to report that water quality continues to be excellent system-wide and this report confirms that for the year 2010. This report basically says that your drinking water is of excellent quality!

As we celebrate our 40th year of operations in 2011, I want to thank each of you for growing with us. As we make improvements to our water system and seek better ways to serve you, we understand that we cannot make these strides without you, the customer. We are very fortunate to have excellent quality drinking water and we take our job serious as your provider. The winter rains have filled our raw water reservoirs this year as we move into the spring and summer months. This is the best position that we can be in for this time of year. Even during times of ample supply, I encourage each of you to continue to be good stewards of this quality resource and use water wisely. Have a great summer!

Thank you,  
Dyke Spencer/General Manager

## Board of Directors

**Norman S. Garrison** – Chairman  
**Phil Landreth** – Vice Chairman  
**Terressa Batson** – Secretary

John M. Kunst, Freddie Zink, Sam G. Lusk,  
Ernest Evans, Seth Landrum, Suzanne R. Childs,  
Jimmy D. Williams

Dyke Spencer – General Manager  
Gordon Brush – Director of Finance & Administration  
Chris Rasco – Superintendent  
Janice Perry – Customer Service Manager

*\*Board meetings are scheduled on  
the third Thursday of each month at 6:00 pm.*

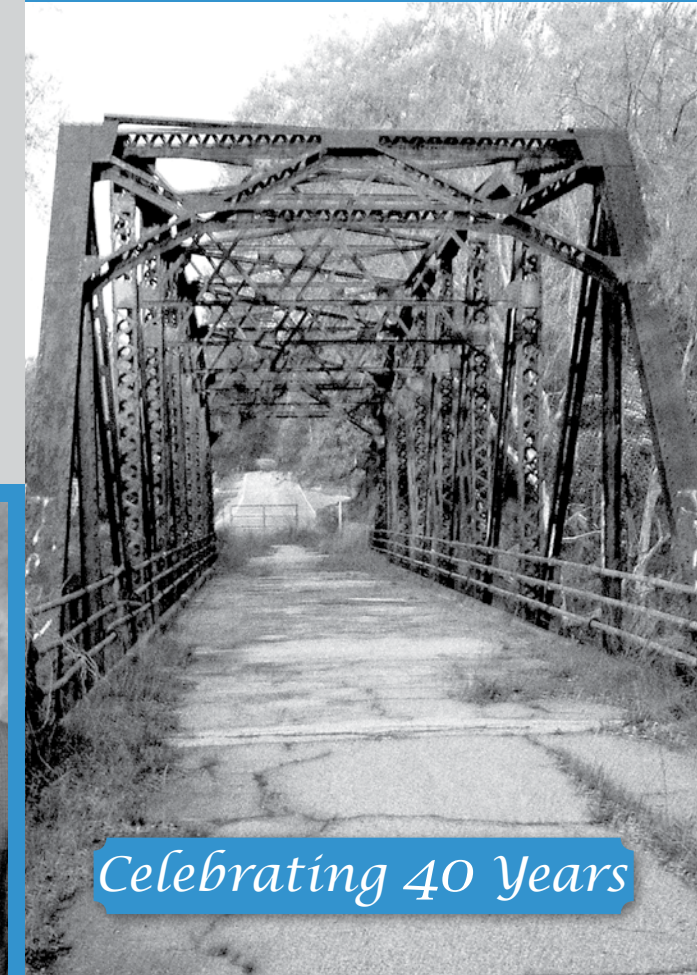
**For more information, call 864-269-5440**



Tracy Wyatt, left, and Chris Rasco, right, are shown accepting the Kelly A. Hunsucker Award for PWD. This award was presented at the South Carolina Environmental Conference held at Myrtle Beach, SC, March 12-15th. The award is given annually to the utility that has made significant contributions in cross connection control operations.

POWDERSVILLE WATER DISTRICT  
1719 Circle Road, Powdersville, SC 29642  
864-269-5440 • System SC0420002

# Annual Drinking Water Quality Report for 2010



*Celebrating 40 Years*

**POWDERSVILLE  
WATER DISTRICT**  
*Quality on Tap*  
**1971-2011**  
*Celebrating 40 Years of Excellence, Innovation & Service*

1719 Circle Road, Powdersville, SC 29642  
864-269-5440 • System SC0420002



Justin Clemones, Compliance Specialist for Powdersville Water District, performs hydrant flow test while Jacob Pearson, from Powdersville Fire Department observes.

## Powdersville Water District Meets All Standards

Powdersville Water District (PWD) is very pleased to provide you with the 2010 Annual Drinking Water Quality Report. Keeping you, our customer, informed about water quality and the services that we deliver to you every day is of great importance to us. PWD's primary goal is, and always will be, to provide you with a safe and dependable supply of drinking water. The Environmental Protection Agency (EPA) and the South Carolina Department of Health & Environmental Control (SCDHEC) have established strict standards for drinking water. These standards are in place to protect consumers from bacteria and water-borne illnesses. PWD is pleased to report that our drinking water is safe and meets all of the federal and state standards. We collect hundreds of bacteriological samples each year throughout the system to ensure your drinking water is safe. The samples are analyzed by a private lab that is certified by SCDHEC. In addition, PWD continually conducts a System Flushing Program to ensure adequate chlorine residual is maintained throughout the system so that proper disinfection of your drinking water always occurs. The enclosed reports are further indication that PWD is meeting the requirements of the law and the bottom line is that you have safe, high-quality drinking water.

## Where Does Your Water Come From?

Your drinking water originates from three separate suppliers: Anderson Regional Joint Water System (ARJWS), Easley Combined Utilities and the Greenville Water System. PWD purchases water from these suppliers by means of several connections throughout the system. Each supplier provides filtered surface water to PWD that is treated to SCDHEC Drinking Water Standards. ARJWS supplies PWD with treated water from Lake Hartwell. Easley supplies their treated water from Saluda Lake. Treated water from Lake Keowee is the third source that is provided by Greenville's state-of-the-art filtration plant. Each of these water supplies are similar in character and when treated, blend very well together in the Powdersville Water District's system. We are very fortunate in the Powdersville Community to have several pristine sources of surface water to draw from to provide an adequate water supply for our growing population during normal weather conditions, as well as during drought situations.

## How Is Your Water Treated?

As described earlier, PWD is a distributor of drinking water that is purchased from three licensed suppliers. Each of the filtration facilities that provide water to PWD use similar processes that involve coagulation, sedimentation, filtration, and disinfection. Coagulation is a process by which a chemical, such as alum, is added to help small particles settle out from the source water. The pH is adjusted with very small amounts of sodium hydroxide, or caustic soda, filtration occurs, polyphosphates are added for corrosion control, chlorine and ammonia are added for disinfection, and fluoride is provided to prevent tooth decay. We are fortunate that each of our suppliers has modern facilities that continually provide our community with quality drinking water. In

addition, each of our suppliers has a Source Water Assessment on file at SCDHEC. This document summarizes an in-depth survey that was recently performed on the watershed for each of our suppliers. Part of the report outlines an inventory of the potential contaminant sources (PCS) that are located in each watershed. Each PCS is then assigned a level of severity based upon its potential to contaminate the source water. The assessment provides a good planning tool for future growth and is designed to inform public officials and the general public of how our daily living practices may impact our sources of drinking water. In addition, the report outlines measures of protection for each watershed. If you would like to review these documents, they are available online at [www.scdhec.gov/water/html/srcwetr.html](http://www.scdhec.gov/water/html/srcwetr.html).

## Powdersville Water District (SC0420002) Regulated Detections

Constituent (unit of measure)	Action Level	90th%
Lead (ppb)	15	0
Copper (ppm)	1.3	0.1
Sites Exceeding Action Level	Typical Source of Constituent	Year Sampled
1	Corrosion of household plumbing	2010
0	Corrosion of household plumbing	2010

## Anderson Regional Joint Water System (SC0420011)\*

Parameter	MCL	Sample Average	Violation
THM	80 ppb	63 ppb	No
HAA	60 ppb	37 ppb	No

\* Should you need further information specifically about this report, please contact David Melton at 864-226-9676.

## Easley Combined Utilities (SC 3910002)\*\*

Parameter	MCL	Sample Average	Violation
THM	80 ppb	38 ppb	No
HAA	60 ppb	48 ppb	No

\*\* Should you need further information specifically about this report, please contact Tate Davis at 864-246-5817.

## Greenville Water System (SC 2310001) Adkins Plant\*\*\*

Parameter	MCL	Sample Average	Violation
THM	80 ppb	11.6 ppb	No
HAA	60 ppb	10.5 ppb	No

\*\*\* Should you need further information specifically about this report, please contact K.C. Price at 864-241-7833.

## Things you should know...

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. As source water travels over the land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances. All drinking water, including bottled drinking water, may be expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline at 800-426-4791. Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water run-off, and septic systems.
- **Radioactive contaminants**, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health. Some people may be more vulnerable to small amounts of contaminants than the general population. Immuno-compromised persons, such as cancer patients undergoing chemotherapy, organ transplant patients, persons with HIV/AIDS or other immune system disorders, some elderly people, and infants, can be particularly at risk from infections. Individuals with these conditions should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791). As previously stated, PWD, as well as our three suppliers, routinely sample for numerous contaminants in your drinking water according to federal and state regulation. As part of the EPA's requirements, each of our suppliers is required to submit their Annual Water Quality Report to PWD. The information included in this report is dedicated to

compiling and summarizing PWD's system and also includes the water quality data from each of our source water providers for the period of January 1, 2010 to December 31, 2010. The information is somewhat technical and it is important that you, the customer, understand that these records confirm that Powdersville Water District's drinking water meets all applicable standards and it is safe for your consumption. **There were no recorded violations and none of the results exceeded the Maximum Contaminate Level (MCL) during the year 2010.**

It is important to note that PWD serves a few customers in the vicinity of the Hunts Memorial Church that receive water purchased from the Dacusville-Cedar Rock Water System. Located at the northern end of the service area, these customers receive basically the same treated surface water that originates from Greenville Water. Customers in this area should only direct their attention to the water quality tables that pertain to this supplier. As previously stated, your drinking water meets all applicable standards, and it is safe for your consumption.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

Powdersville Water District is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your drinking water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

## Want to Know More?

If you would like more information about your quality drinking water source, simply call Chris Rasco at the Powdersville Water District office at **864-269-5440**.

We will be happy to talk with you.

For other information about Powdersville Water District, visit our web site at [www.powdersvillewaterdistrict.com](http://www.powdersvillewaterdistrict.com).