



2015 Annual

# Water Quality Report

Laurel Ridge  
PWS ID: PA 3540072



PENNSYLVANIA  
AMERICAN WATER

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.

(This report contains important information about your drinking water. Have someone translate it if needed.)

## A Message from the Pennsylvania American Water President



To Our Valued Customer:

On behalf of all Pennsylvania American Water employees, I am pleased to share some very good news about the quality of your drinking water. As you read through our Annual Water Quality Report based on testing results between January and December 2015, you will see that we continue to supply water that meets or surpasses all state and federal water quality standards. **Better yet, the price you pay for this high-quality water service remains about one penny per gallon.**

This is an exceptional value when you consider the science, expertise, equipment and technology that go into bringing water from the source and treating it, plus the miles and miles of pipe to deliver clean water to your tap. What's more, our plant operators, water quality experts, engineers and maintenance crews work around the clock to make sure that quality water is

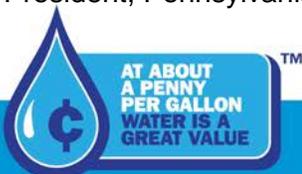
always there when you need it.

Delivering reliable, high-quality water service also requires significant investment to maintain and upgrade aging infrastructure. **In 2015 alone, we invested approximately \$270 million in system improvements across the commonwealth.**

Water is essential for public health, fire protection, economic development and our overall quality of life. This is a responsibility that Pennsylvania American Water employees take very seriously to ensure that quality water keeps flowing not only today but well into the future. Please take the time to review this report with its details about the source and quality of your drinking water. We hope you agree that your water service is worth every penny.

Sincerely,

Kathy L. Pape  
President, Pennsylvania American Water



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**WE CARE ABOUT WATER. IT'S WHAT WE DO.®**

## Our Mark of Excellence

Founded in 1886, American Water is the largest publicly traded U.S. water and wastewater utility company. With headquarters in Voorhees, N.J., the company employs approximately 6,400 dedicated professionals who provide drinking water, wastewater and other related services to an estimated 15 million people in more than 45 states and parts of Canada. More information can be found by visiting [www.amwater.com](http://www.amwater.com).

Pennsylvania American Water, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water utility in the state, providing high-quality and reliable water and/or wastewater services to approximately 2.2 million people

We are once again proud to present our annual water quality report. This edition covers all testing completed from January through December 2015. Over the years, we have dedicated ourselves to producing drinking water that meets or surpasses all state and federal drinking water standards. We continually strive to adopt new and better methods of delivering the best quality drinking water to you. As regulations and drinking water standards change, it is our commitment to you to incorporate these changes system-wide in an expeditious and cost-effective manner, while maintaining our objective of providing quality drinking water at an affordable price.

We are pleased to tell you that our compliance with all state and federal drinking water laws remains exemplary. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, and community education while continuing to serve the need of all our water users.

For more information about this report, or for any questions relating to your drinking water, please feel free to call our Customer Service Department at 800-565-7292.

## Source Water Information

Pennsylvania American Water (PAW) purchases all of the water used at the Laurel Ridge development from the Schuylkill County Municipal Authority (SCMA). All of the water comes from the Mt. Laurel Treatment Plant, which purifies surface water from the Mt. Laurel Reservoir and is distributed for residential use.

## Protecting Your Water Source

Pennsylvania American Water actively participates in the local Source Water Assessment Program being conducted under the leadership of the Pennsylvania Department of Environmental Protection (DEP).

## Other Water Quality Parameters of Interest

### Is there lead in your water?

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. Pennsylvania American Water 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 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:

[U.S. Environmental Protection Agency Web Page on Lead](#)

### Does your water contain nitrates?

PAW's normal range of nitrate levels is below the MCL of 10 ppm. Nitrate enters the water supply from fertilizers used on farms and natural erosion of deposits in the watershed. Levels above 10 ppm are a health risk for infants under six months of age and can cause blue baby syndrome. Check with your physician if you have questions.

### How hard is your water?

Hardness is a measure of the concentration of two minerals naturally present in water – calcium and magnesium. High hardness levels cause soap not to foam as easily as it would at lower levels. Hardness levels range from 4 ppm to 12 ppm, or <1 grain per gallon of water.

### How much sodium is in your water?

The sodium level is approximately 2 ppm.



## What is the pH range of your water?

Water in the distribution system averaged 7.2 pH units. A pH of 7.0 is considered neutral, neither acidic nor basic.

## Is there fluoride in your water?

Pennsylvania American Water does not add fluoride to your water supply.

## How to Contact Us

Additional copies of this report can be printed directly from this site ([www.amwater.com/ccr/laurelridge.pdf](http://www.amwater.com/ccr/laurelridge.pdf)). Questions can be presented to our Customer Service Department at 1-800-565-7292. Added information can be gathered by viewing the following links on the Internet:

[Pennsylvania American Water Web Page](#)

[Pa. Department of Environmental Protection Web Page](#)

[U.S. Environmental Protection Agency Web Page](#)

[Center for Disease Control and Prevention Web Page](#)

[American Water Works Association Web Page](#)

**Safe Drinking Water Hotline:** (800) 426-4791

## Substances Expected to be in Drinking Water

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. U.S. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

The Schuylkill County Municipal Authority water treatment processes are designed to reduce any such substances to levels well below any health concern and the processes are controlled to provide maximum protection against microbial and viral pathogens which could be naturally present in surface and groundwater. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the U.S. Environmental Protection Agency's Safe Drinking Water Hotline (800) 426-4791.

**Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants may be particularly at risk from infections. These people 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 EPA's Safe Drinking Water Hotline (800) 426-4791.**

The source of drinking water (both tap water and bottled water) includes rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

### 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 may result from urban stormwater 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 stormwater runoff, and residential uses.

**Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and may also come from gas stations, urban stormwater runoff, and septic systems.

**Radioactive Contaminants**, which can be naturally occurring or may be the result of oil and gas production and mining activities.



## How to Read This Table

Start with a **Substance** and read across. **Year Sampled** is usually in 2015 or the prior year. **MCL** shows the highest level of substance (contaminant) allowed. **MCLG** is the goal level for that substance (goal may be set lower than what is allowed). **Average Amount Detected** represents the measured amount (lower is better). **Range** shows the highest and lowest amounts measured. A **Yes** under **Compliance Achieved** means the amount of the substance met government requirements. **Typical Source** tells where the substance usually originates.

Unregulated substances are measured, but maximum allowed contaminant levels have not been established by the government. These contaminants are shown for your information.

## Definitions of Terms Used in This Report

- **AL (Action Level):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.
- **MCL (Maximum Contaminant Level):** The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- **MCLG (Maximum Contaminant Level Goal):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Minimum Residual Disinfectant Level:** The minimum level of residual disinfectant required at the entry point to the distribution system.
- **MRDL (Maximum Residual Disinfectant Level):** The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **MRDLG (Maximum Residual Disinfectant Level Goal):** The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.
- **NA:** Not applicable
- **ND:** Not detected
- **NTU (Nephelometric Turbidity Units):** Measurement of the clarity, or turbidity, of the water.
- **pCi/L (picocuries per liter):** Measurement of the natural rate of disintegration of radioactive contaminants in water.
- **ppm (parts per million):** One part substance per million parts water, or milligrams per liter.
- **ppb (parts per billion):** One part substance per billion parts water, or micrograms per liter.
- **SS:** Single sample
- **TT (Treatment Technique):** A required process intended to reduce the level of a contaminant in drinking water.
- **%:** means percent
- **90th Percentile:** The highest concentration of lead or copper in tap water that is exceeded by 10 percent of the sites sampled during a monitoring period. This value is compared to the lead and copper action levels (AL) to determine whether an AL has been exceeded.

## Water Quality Statement

We are pleased to report that during the past year, the water delivered to your home or business complied with all state and federal drinking water requirements. For your information, we have compiled a list in the table below showing what substances were detected in your drinking water during 2015. The Pennsylvania DEP allows us to monitor for some contaminants less than once per year because the concentration of the contaminants does not change frequently. Some of our data, though representative, are more than one year old. Although all of the substances listed below are under the Maximum Contaminant Levels (MCL) set by the U.S. Environmental Protection Agency and the Pennsylvania DEP, we feel it is important that you know exactly what was detected and how much of each substance was present in the water.



## Water Quality Results

### Turbidity (A Measure of the Clarity of the Water at the SCMA – Mount Laurel Treatment Facility)

Plant	Substance (units)	Year Sampled	MCL	MCLG	Highest Single Measurement	Compliance Achieved	Typical Source
Mt. Laurel	Turbidity (NTU) <sup>1</sup>	2015	TT	NA	0.16	Yes	Soil runoff

<sup>1</sup> All turbidity readings were below the treatment technique requirement of 0.3 NTU in 95% of all samples taken for compliance on a monthly basis

### Regulated Substances (Measured on the Water Leaving the Mount Laurel Treatment Facility)

Substance (units)	Year Sampled	MCL	MCLG	Maximum Level Detected	Range Low - High	Compliance Achieved	Typical Source
Barium (ppm)	2015	2	2	0.02	SS	Yes	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits
Combined Radium (pCi/L)	2014	0	5	0.7	SS	Yes	Erosion of natural deposits
Chromium, total (ppb) <sup>2</sup>	2014	100	100	0.4	0.2 – 0.4	Yes	Discharge from steel and pulp mills; Erosion of natural deposits

<sup>2</sup> Total chromium was monitored for SCMA – Mount Laurel Treatment Facility during 2014 under the Unregulated Contaminants Monitoring Rule 3 (UCMR3) as required in both the water leaving the treatment facilities as well as in the distribution system. The results listed include all samples. The average amount detected from all locations was 0.3 ppb

### Disinfectant Residuals (Measured on the Water Leaving the Mount Laurel Treatment Facility)

Substance (units)	Year Sampled	Minimum Disinfectant Residual Required	Lowest Amount Detected	Range Low - High	Compliance Achieved	Typical Source
Chlorine (ppm) <sup>3</sup>	2015	0.2	0.6	0.6 - 1.7	Yes	Added as a disinfectant to the treatment process

<sup>3</sup> All chlorine readings were above the treatment technique requirement of not less than 0.2 ppm for more than 4 hours on water being supplied to the distribution system.

### Total Organic Carbon Removal (Measured in the Mount Laurel Treatment Facility)

Substance (units)	Year Sampled	TT	Percent Removal Required	Range of Percent Removal Achieved	Compliance Achieved	Typical Source
Total Organic Carbon (TOC) (% removal) <sup>4</sup>	2015	Meet EPA removal requirements	Not Required	44 - 100	Yes	Naturally decaying vegetation

<sup>4</sup> Adequate removal of TOC may be necessary to control the unwanted formation of chlorinated by-products. Naturally occurring organic matter present in the source water can react with the disinfectants used at the treatment facility to form these by-products. In 2015, all raw water TOC measurements were below 2.0 mg/l, therefore there is no TOC removal requirement.



### Bacterial Test Results (Measured in the PAW – Laurel Ridge Distribution System)

Substance	Year Sampled	MCL	MCLG	Highest Number of Positive Samples per Month	Compliance Achieved	Typical Source
Total Coliform Bacteria	2015	1 positive monthly sample	Zero bacteria	0	Yes	Naturally present in the environment

### Other Compounds (Measured in the PAW – Laurel Ridge Distribution System)

Substance (units)	Year Sampled	MCL	MCLG	Results	Range Low - High	Compliance Achieved	Typical Source
Total Trihalomethanes (ppb)	2015	80	NA	22	SS	Yes	By-product of drinking water chlorination
Haloacetic Acids (HAA5) (ppb)	2015	60	NA	6	SS	Yes	By-product of drinking water chlorination

### Tap Water Samples: Lead and Copper Results (Measured in the PAW – Laurel Ridge Distribution System)

Substance (units)	Year Sampled	Action Level	MCLG	Number of Samples Taken	90th Percentile	Number of Samples Above Action Level	Compliance Achieved	Typical Source
Lead (ppb)	2013	15	0	5	<1	0	Yes	Corrosion of household plumbing systems; Erosion of natural deposits
Copper (ppm)	2013	1.3	1.3	5	0.03	0	Yes	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives

### Disinfectant Residual (Measured in the PAW – Laurel Ridge Distribution System)

Substance (units)	Year Sampled	MRDL	MRDLG	Highest Result	Range Low - High	Compliance Achieved	Typical Source
Chlorine (ppm)	2015	4	4	1.4	0.8 - 1.4	Yes	Water additive used to control microbes



## IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER NOTICE OF UNREGULATED CONTAMINANT MONITORING (UCMR3)

Schuylkill County Municipal Authority (SCMA) - Mount Laurel Treatment Facility has completed all 4 quarters monitoring for several unregulated contaminants in 2014. Unregulated contaminants are those that do not yet have a drinking water standard set by the EPA. The purpose of monitoring for these contaminants is to help the EPA decide whether the contaminants should be regulated. As our customers, you have a right to know that these data are available. The contaminants detected are summarized below. If you are interested in examining the results, please contact Nancy Donahue at (570) 674-0525.

### Unregulated Compounds (Measured on Water Leaving the Treatment Facilities and in the Distribution System)

Substance (units) <sup>5</sup>	Year Sampled	Average	Range Low - High	Comments
Chromium 6 or Hexavalent Chromium (ppb)	2014	0.07	0.06 – 0.08	Naturally-occurring element; used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation
Strontium (ppb)	2014	60.5	8.3 – 138.0	Naturally-occurring element; historically, commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions
Cobalt (ppb)	2014	1.3	1.2 – 1.4	Naturally-occurring element found in the earth's crust and at low concentrations in seawater, and in some surface and ground water; cobaltous chloride was formally used in medicine and as a germicide

<sup>5</sup> Substances were monitored under the Unregulated Contaminants Monitoring Rule 3 (UCMR3); Maximum Contaminant Levels (MCL) and Maximum Contaminant Level Goals (MCLG) are not currently established for these substances. Total chromium is currently regulated but was also monitored under the UCMR3 as required. The results for total chromium are summarized in the Regulated Substances table on Page 5.





**There's a lot more  
to your water bill  
than just water.**

When you turn on the tap, it's easy to see what your water bill buys. What's not as easy to see is what it takes to bring that water to your home. The miles of pipeline hidden below the ground. The facilities that draw water from the source. The plant where it's treated and tested. The scientists, engineers, and maintenance crews working around the clock to make sure that water is always there when you need it. Your water payments are helping to build a better tomorrow by supporting needed improvements that will keep water flowing for all of us—today and well into the future. All for about a penny a gallon.



**WE CARE ABOUT WATER. IT'S WHAT WE DO.  
FIND OUT WHY YOU SHOULD, TOO, at [amwater.com](http://amwater.com).**

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