



Water-Quality Report

2015

BUCKS COUNTY WATER & SEWER AUTHORITY
PWSID # 1090079

Main Lower South System – Serving Middletown/Southampton

Este informe contiene informacion importante acerca de su agua potable. Traduzcalo ó hable con alguien que lo entienda bien.

BCWSA is committed to providing customers with a reliable supply of high quality drinking water that meets or surpasses state and federal standards for quality and safety. Our water is tested using certified labs that use advanced procedures. We are pleased to provide this Water Quality Report as required by the Safe Drinking Water Act (SDWA) with results of our 2015 water testing. In addition to results of laboratory testing, this report also includes details regarding the source of our drinking water and how it compares to Environmental Protection Agency (EPA) and state standards. Any questions or concerns may be directed to Erin Rapp at 215-343-2538 x112 or visit us online at www.bcwsa.net.

WATER SOURCE

BCWSA's Main Lower South System is supplied water from both North Wales Water Authority and Lower Bucks County Joint Municipal Authority. North Wales Water Authority supplies us with surface water from the Delaware River that has been treated at Forest Park Water Treatment Plant. Lower Bucks County Joint Municipal Authority supplies us with a combination of surface water from the Delaware River that has been treated at their water treatment plant and ground water from 5 wells.

Under Section 1453 of the U.S. Environmental Protection Agency's 1996 Safe Drinking Water Act, states must evaluate all drinking water sources that serve public systems and provide a mechanism for development of local protection programs. In accordance with the Pennsylvania Department of Environmental Protection's Source Water Assessment and Protection Program (SWAP), a source water assessment has been completed for Forest Park Water Treatment Plant and Lower Bucks County Joint Municipal Authority. A summary report of the Assessment's for each source is available on the Source Water Assessment & Protection web page at

www.dep.state.pa.us/dep/deputate/watermgmt/wc/Subjects/SrceProt/SourceAssessment/default.htm.

The complete Assessment is available for public review at the Southeast Regional DEP office in Norristown, PA.

EDUCATIONAL INFORMATION

The sources of drinking water (both tap water and bottled water) include 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 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 byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, 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. We treat your water according to EPA's regulations. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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 EPA's Safe Drinking Water Hotline at 800-426-4791.

CUSTOMER PARTICIPATION

Residents can help ensure the safety of our water supply by reporting any suspicious activities near any water tank, reservoir, or hydrants to our office at 215-343-3946, 24 hours a day, 7 days a week.

The Board of Directors of BCWSA meets on the second Tuesday of each month at 8:30am and the fourth Monday of each month at 7:00pm in the public meeting room at the Authority office located at 1275 Almshouse Road in Warrington, PA. Please feel free to attend and participate in these meetings.

WATER CONSERVATION TIPS

Did you know that the average U.S. household uses approximately 400 gallons of water per day or 100 gallons per person per day? Luckily, there are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

- ◆ Take short showers – a 5 minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- ◆ Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons per month.
- ◆ Use a water-efficient showerhead. They're inexpensive, easy to install, and can save you up to 750 gallons per month.
- ◆ Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for a leak, place a few drops of food coloring in the tank and wait. If it seeps into the toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons per month.
- ◆ Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- ◆ Teach your kids about water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill!
- ◆ Visit www.epa.gov/watersense for more information.

SPECIAL WARNING

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 can 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 Safe Drinking Water Hotline at 800-426-4791.

WATER QUALITY DATA

The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented is from testing done January 1 - December 31, 2015. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

Contaminants	MCLG or MCL	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Microbiological Contaminants								
Total Coliform Bacteria	0	5	1.59	0	1.59	2015	No	Naturally present in the environment
Fecal Coliform or E. coli	0	0	0	0	0	2015	No	Human and animal fecal waste

Contaminants	MCLG	MCL	MCL	Sample Date	Violation	Typical Source
Turbidity						
Turbidity (NTU)	0	TT = 1 NTU for a single measurement	0.08	2015	No	Soil Runoff
		TT = at least 95% of monthly samples ≤0.3 NTU	100%		No	

Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Lead and Copper							
Lead – AL at consumer taps (ppb)	0	15	0.9	2013	2 out of 31	No	Corrosion of household plumbing systems; erosion of natural deposits
Copper – AL at consumer taps (ppb)	1.3	1.3	0.189	2013	0 out of 31	No	Corrosion of household plumbing systems; erosion of natural deposits

Contaminants	MCLG or MCL	MCL, TT, or MRDL	Your Water	Range		Sample Date	Violation	Typical Source
				Low	High			
Chemical Contaminants								
Chlorine (ppm)	4	4	0.54	0	0.54	2015	No	Water additive used to control microbes
Barium (ppm)	2	2	0.22	ND	0.22	2015	No	Discharge of drilling wastes; discharge from metals refineries; erosion of natural deposits
Nitrate (ppm)	10	10	1.3	ND	1.3	2015	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Haloacetic Acids (HAA5) (ppb)	NA	60	41.3	4	69	2015	No	By-product of drinking water chlorination
Total Trihalomethanes (TTHMs) (ppb)	NA	80	52.2	12.1	79.9	2015	No	By-product of drinking water disinfection
Bromate (ppb)	0	10	1.9	1.4	2.8	2015	No	By-product of drinking water disinfection
Chromium (ppb)	100	100	1.3	ND	1.3	2015	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride (ppm)	2	2	0.84	ND	1.43	2015	No	By-product of drinking water disinfection
Gross Alpha (pCi/L)	0	15	3.35	ND	3.35	2014	No	Erosion of natural deposits
Combined Radium (pCi/L)	0	5	0.7427	ND	0.7427	2014 & 2015	No	Erosion of natural deposits

Additional Testing

Tests were performed in 2014 and 2015 for Synthetic Organic Compounds, and 2015 for Volatile Organic Compounds. No compounds were detected in any of these tests.

Tests were performed in 2015 for Inorganic Compounds and no compounds other than barium, chromium, and fluoride which is listed in the table above were detected in any of these tests.

ADDITIONAL INFORMATION FOR LEAD

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. BCWSA 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 at 800-426-4791 or at www.epa.gov/safewater/lead.

Terms and Abbreviations

AL	Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that 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
MRDL	Maximum Residual Disinfectant Level	Highest level of disinfectant allowed in drinking water. There is convincing evidence that additional disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a 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	Results are not applicable.
ND	Not Detectable	Results are below the detection level of the instrumentation.
NTU	Nephelometric Turbidity Units	A measure of water clarity.
pCi/L	Picocuries per liter	A measure of radioactivity.
ppm	Parts per million or milligrams per liter (mg/L)	One part per million equals about: 1 minute in 2 years or 1 inch in 16 miles.
ppb	Parts per billion or micrograms per liter (µg/L)	One part per billion equals about: 1 second in 32 years or 1 inch in 16,000 miles.
TT	Treatment Technique	A required process intended to reduce the level of contaminant in drinking water.