

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF SAFE DRINKING WATER

<u>2014</u>	ANNUAL DRINKING WATER QUALITY REPORT
PWSID #: 7220040	NAME: Halifax Area Water and Sewer Authority
para usted, ó hable con alguien que	mportante acerca de su agua potable. Haga que alguien lo traduzca e lo entienda. (This report contains important information about your late it for you, or speak with someone who understands it.)
WATER SYSTEM INFORMATION:	
concerning your water utility, please of (717) 896-8149 If you want to learn more, please atte	and what it means. If you have any questions about this report or contact <u>Jeff Grosser</u> at We want you to be informed about your water supply. and any of our regularly scheduled meetings. They are held fax Borough Building, 203 Armstrong St., Post Office rear entrance
SOURCE(S) OF WATER:	
Our water source(s) is/are: (Name-T	ype-Location)
Your water comes from five mountain	n springs and three drilled wells, all located within Halifax Township.
One well is behind Deppen Park, the	other wells and springs are near Peters Mountain Road.
Protection (Pa. DEP). The Assessment to [insert potential Sources of Contar our source(s) has/have [little, moder Assessment is available on the (http://www.dep.state.pa.us/dep/depu). Complete reports were distributed to	r source(s) was completed by the PA Department of Environmental ent has found that our source(s) of is/are potentially most susceptible mination listed in your Source Water Assessment Summary]. Overall, rate, high] risk of significant contamination. A summary report of the see Source Water Assessment & Protection web page at state/watermgt/wc/Subjects/SrceProt/SourceAssessment/default.htm) to municipalities, water supplier, local planning agencies and PADEP
offices. Copies of the complete report	rt are available for review at the Pa. DEP Central

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* (800-426-4791).

Regional Office, Records Management Unit at (717) 705-4708.

#### **MONITORING YOUR WATER:**

We routinely monitor for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of January 1 to December 31, <u>2014</u>. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data is from prior years in accordance with the Safe Drinking Water Act. The date has been noted on the sampling results table.

#### **DEFINITIONS:**

Action Level (AL) - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) - 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.

Maximum Contaminant Level Goal (MCLG) - 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.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - 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 contaminants.

Minimum Residual Disinfectant Level (MinRDL) - The minimum level of residual disinfectant required at the entry point to the distribution system.

Treatment Technique (TT) - A required process intended to reduce the level of a contaminant in drinking water.

Mrem/year = millirems per year (a measure of radiation absorbed by the body)

ppm = parts per million, or milligrams per liter
(mg/L)

radiation absorbed by the body)

ppq = parts per quadrillion, or picograms per

pCi/L = picocuries per liter (a measure of radioactivity)

liter

ppb = parts per billion, or micrograms per liter ( $\mu$ g/L)

*ppt* = parts per trillion, or nanograms per liter

## **DETECTED SAMPLE RESULTS:**

Chemical Contaminants								
Contaminant	MCL in CCR Units	MCLG	Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Arsenic	10	10	5.245	4.6 - 5.68	ppb	2014	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Nitrate	10	10	2.3	1.49 - 3.02	Mg/l	2014	N	Runoff from fertilizer use; Leaching from septic tanks, sew-age; Erosion of natural deposits
Barium	2		0.14	0.05 - 0.23	Mg/l	2012	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits

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Selenium (IOC)	50	50	2.75	2.6 - 2.9	ppm	2012	N	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Chloroform (THM)	N/A	N/A	0.00325	0.0032 - 0.0033	Mg/l	2014	N	
Bromoform (THM)	N/A	N/A	0.00125	0.0012 - 0.0013	Mg/l	2014	N	
Bromodichloro methane (THM)	N/A	N/A	0.00385	0.0038 - 0.0039	Mg/l	2014	Ν	
Trihalomethan es	80	N/A	12.2	12.2	Mg/I	2014	N	By-product of drinking water chlorination
Combined Uranium	5		1.62	1.62	Ug/l	2012	N	Erosion of natural deposits

\*EPA's MCL for fluoride is 4 ppm. However, Pennsylvania has set a lower MCL to better protect human health.

Entry Point Disinfectant Residual								
	Minimum Disinfectant	Lowest Level	Range of		Sample	Violation	Sources of	
Contaminant	Residual	Detected	Detections	Units	Date	Y/N	Contamination	
Chlorine	0.4	0.4	0.4 - 1.46	ppm	2014	N	Water additive used to control microbes.	

Lead and Copper							
Contaminant	Action Level (AL)	MCLG	90 <sup>th</sup> Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead	15	0	3	ppb	0-20 sites	N	Corrosion of household plumbing.
Copper	1.3	1.3	0.8	ppm	0-20 sites	Ν	Corrosion of household plumbing.

Microbial								
Contaminants	MCL	MCLG	Highest # or % of Positive Samples	Violation Y/N	Sources of Contamination			
Total Coliform Bacteria	For systems that collect <40 samples/month:  • More than 1 positive monthly sample For systems that collect ≥ 40 samples/month:  • 5% of monthly	0	0	N	Naturally present in the environment.			
Fecal Coliform Bacteria or <i>E. coli</i>	samples are positive 0	0	0	N	Human and animal fecal waste.			

Raw Source Water Microbial							
Contaminants	MCLG	Total # of Positive Samples	Dates	Violation Y/N	Sources of Contamination		
E. coli	0	0	2013	N	Human and animal fecal waste.		

#### **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 run-off, 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 and DEP prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA and DEP 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 Environmental Protection Agency's *Safe Drinking Water Hotline* (800-426-4791).

### Information about 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. Halifax Area Sewer and Water Authority

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 <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.