

GREENVILLE WATER AUTHORITY

2017 ANNUAL DRINKING WATER QUALITY REPORT

PWSID #: 6430037

Website: <http://www.gmwa.info>

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo ó hable con alguien que lo entienda bien. (This report contains very important information about your drinking water. Translate it, or speak with someone who understands it.)

About Your Drinking Water – Greenville Water Authority(GWA) is pleased to provide you with its 2017 Consumer Confidence Report The report summarizes the quality of water GWA provided in 2017 including details about its water source, what the water at your tap contains, and how it compares to standards set by regulatory agencies. Although the report lists only those regulated substances that were detected in your water, we test for more than what is reported. This report is only a summary of our testing during 2017. If you have questions about this report please contact Carol Paul, Manager, at 724 588-4340 or visit our website at <http://www.gmwa.info>.

We want you to be informed about your tap water. If you want to learn more, please attend any of our regularly scheduled board meetings held on the second Wednesday of every month at 44 Clinton Street, Greenville PA 16125 at 5:30 PM.

Source of Supply – The source of water for GWA comes from the Shenango River. A Source Water Assessment of our source was completed by the PA Department of Environmental Protection (PADEP) in 2003. The Assessment found that our source is potentially most susceptible to road de-icing materials, accidental spills along roads and leaks in underground storage tanks. Overall, our source has little risk of significant contamination. Summary reports of the Assessment are available by writing to Greenville Water Authority, 44 Clinton Street, Greenville, PA 16125 and is available on the PADEP website at www.depweb.state.pa.us (Keyword: "source water"). Complete reports were distributed to municipalities, water suppliers, local planning agencies and PADEP offices. Copies of the complete report are available for review at the PADEP Meadville Regional Office, Records Management Unit at (814) 332-6899.

EDUCATIONAL INFORMATION:

The sources of drinking water (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 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 storm 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, stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organics, 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 result from oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations that 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.

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 (EPA) Safe Drinking Water Hotline at 800.426.4791.

Our water system is designed and operated to deliver water to our customers' plumbing systems that complies with state and federal drinking water standards. This water is disinfected using chlorine, but it is not necessarily sterile. Customers' plumbing, including treatment devices, might remove, introduce or increase contaminants in tap water. All customers, and in particular operators of facilities like hotels and institutions serving susceptible populations (like hospitals and nursing homes), should properly operate and maintain the plumbing systems in these facilities. You can obtain additional information from the EPA's Safe Drinking Water Hotline at 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 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).

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. The Greenville 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 <http://www.epa.gov/safewater/lead> or on the Authority website at www.gmwa.info. Greenville Water Authority will mail information about reducing lead exposure directly to our customers. Simply call the office at 724 588-4340 and request the information.

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, 2017. 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

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
Chlorine (distribution)	4	MRDLG 4	2.55	1.22-2.55	ppm	2/2017	N	Water additive to control microbes.
Fluoride	2*	4	0.64	-	ppm	5/3/2017	N	Water additive which promotes strong teeth.
Haloacetic Acids	60	N/A	23.5 (a)	2 - 44	ppb	Quarterly	N	By-product of disinfection.
Total Trihalomethanes	80	N/A	50.6 (a)	35 - 74	ppb	Quarterly	N	By-product of chlorination.

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

- (a) For Haloacetic Acids and Total Trihalomethanes, the Level Detected is the highest annual average of the quarterly averages. Compliance is based on a running annual average of quarterly results, not a single sample. The Range of Detections lists the lowest and highest values among all individual samples.

Entry Point Disinfectant Residual							
Contaminant	Minimum Level	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Y/N	Sources of Contamination
Chlorine	0.2	0.92	0.92 - 3.94	ppm	6/08/2017	N	Water additive used to control microbes.

Total Organic Carbon (TOC)					
Contaminant	Range of % Removal Required	Range of % Removal Achieved	Number of Quarters Out of Compliance	Violation Y/N	Sources of Contamination
TOC	25 – 45*	30 - 57	0	N	Naturally present in the environment

*Compliance is determined by a running annual average (RAA) computed quarterly. All of the quarterly RAAs met compliance.

Lead and Copper – 21 sites were tested							
Contaminant	Action Level (AL)	MCLG	90 th Percentile Value	Units	# of Sites Above AL of Total Sites	Violation Y/N	Sources of Contamination
Lead (6/2016)	15	0	0	ppb	0 of 21	N	Corrosion of household plumbing.
Copper (6/2016)	1.3	1.3	0.056	ppm	0 of 21	N	Corrosion of household Plumbing.

Microbial					
Contaminants	MCL	MCLG	Highest # or % of Positive Samples	Violation Y/N	Sources of Contamination
Total Coliform Bacteria	10 Samples Per Month	0	0	N	Naturally present in the environment.
<i>E. coli</i> Bacteria	10 Samples Per Month	0	0	N	Human and animal fecal waste.

Turbidity						
Contaminant	MCL	MCLG	Level Detected	Sample Date	Violation Y/N	Source of Contamination
Turbidity	TT=1 NTU for a single measurement	N/A	0.22 NTU	06/2017	N	Soil runoff
	TT= at least 95% of monthly samples \leq 0.3 NTU		99.1 %	06/2017	N	

DEFINITIONS AND ABBREVIATIONS:

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.

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

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.

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

Fluoride: Fluoride may help prevent tooth decay for children, but can be harmful in excess. Customers of GWA receive water from fluoridated supplies. This information may be helpful to you, your pediatrician, or your dentist in determining whether fluoride supplements or treatment are appropriate.

Turbidity: Monitored as a measure of treatment efficiency for removal of particles. Plant Performance Level: 0.3 NTU.

Total Organic Carbon: The level reported under “Level Found” for Total Organic Carbon (TOC) is the lowest ratio between percentage of TOC actually removed to the percentage of TOC required to be removed. A value greater than one indicates that the water system is in compliance with the TOC removal requirements. A value of less than one indicates a Treatment Technique violation of the TOC removal requirements.

NTU: Nephelometric turbidity unit (cloudiness of water)

PWSID: Public water supply identification number

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

ppb = parts per billion

mg/L = milligrams per liter

ug/L = micrograms per liter

< = less than

> = greater than

VIOLATIONS:

The Greenville Water Authority had one late reporting violation in 2017. A sample for cyanide was collected according to schedule. However, the laboratory did not report the results to the DEP by the deadline resulting in a “late reporting” violation. There was no cyanide was detected in the water sample.

WHAT IS NOT IN YOUR WATER?

In addition to the substances shown in this report, the Greenville Water Authority tests your water for many other substances which were NOT detected in your water. These tests are routinely conducted according to regulations and procedures outlined in state and federal regulations for safe drinking water.

EMERGENCY NOTIFICATION:

We encourage you to go to our website at <http://www.gmwa.info> and enter your contact information through the SWIFT911 box towards the bottom of the home page. This will allow the Authority to contact you in the event of a service alert.