



Annual Drinking Water Quality Report 2016

ST. ALBANS MUNICIPAL UTILITY COMMISSION

PWS ID #3302031

1499 MacCorkle Avenue • St. Albans, WV 25177
ANNUAL WATER QUALITY REPORT 2016

May 7, 2017

Why am I receiving this report?

In compliance with the Safe Drinking Water Act Amendments, the St. Albans MUC is providing its customers with this annual water quality report. This report explains where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. The information in this report shows the results of our monitoring for the period of January 1st to December 31st, 2016 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact Mayor Dick Callaway, 304-722-3355. If you have any further questions, comments or suggestions, please attend any of our regularly scheduled water board meetings held on the 3rd Tuesday of every month at 5:30 PM in the St. Albans MUC, 1499 MacCorkle Avenue, St. Albans, WV.

Where does my water come from?

Your drinking water is surface water from the Coal River.

Source Water Assessment

The West Virginia Bureau for Health conducted a source water assessment in 2003. The intake that supplies drinking water to the St. Albans MUC has a higher susceptibility to contamination, due to the sensitive nature of surface water supplies and the potential contaminant sources identified within the area. This does not mean that this intake will become contaminated only that conditions are such that the surface water could be impacted by a potential contaminant source. Future contamination may be avoided by implementing protective measures. The source water assessment report which contains more information is available for review or a copy will be provided to you by calling the WV Bureau for Public Health 304-558-2981.

Why must water be treated?

All drinking water contains various amounts and kinds of contaminants. Federal and state regulations establish limits, controls, and treatment practices to minimize these contaminants and to reduce

any subsequent health effects.

Contaminants in 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. FDA regulations establish limits of 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 these 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).

The source of drinking water (both tap and bottled water) includes rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, 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 runoff, and septic systems.

Radioactive contaminants, which can be naturally-occurring or the result of oil and gas production and mining activities.

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 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).

Water Quality Data Table

Definitions of terms and abbreviations used in the table or report:

- **MCLG - Maximum Contaminant Level Goal**, or 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
- **MCL - Maximum Contaminant Level**, or 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 technique.
- **MRDLG - Maximum Residual Disinfectant Level Goal**, or the level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect benefits of use of disinfectants to control microbial contaminants.
- **MRDL - Maximum Residual Disinfectant Level**, or the highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of disinfectant is necessary to control microbial contaminants.
- **AL - Action Level**, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **TT - Treatment Technique**, or a re-

quired process intended to reduce the level of a contaminant in drinking water.

Abbreviations that may be found in the table:

- **ppm** - parts per million or milligrams per liter
- **ppb** - parts per billion or micrograms per liter
- **NA** - not applicable
- **NE** - not established
- **NTU** - Nephelometric Turbidity Unit, used to measure cloudiness in water.

The St. Albans MUC routinely monitors for contaminants in your drinking water according to federal and state laws. The tables at right show the results of our monitoring for contaminants.

For the reporting year 2016, we received a "Notice of Violation" letter from the WV Bureau for Public Health for failing to monitor or complete on time the taking of sufficient samples for synthetic organic contaminants. We have made every effort and taken every precaution to return to compliance.

Some people who drink water containing synthetic organic contaminants in excess of the MCLs over many year years may develop health problems with their kidney, liver or other symptoms as well as an increased risk of getting cancer (depending upon the specific contaminant).

Additional Information

All other water test results for the reporting year 2016 were all non-detects.

Turbidity is a measure of the cloudiness in water. We monitor it because it is a good indicator of the effectiveness of our filters.

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 **St. Albans MUC** 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>.

Table of Test Results - Regulated Contaminants – St. Albans MUC

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Turbidity	N	0.33 99% of monthly samples <0.3	NTU	0	TT	Soil runoff
Total organic carbon	N	1.5	ppm	NA	TT	Naturally present in the environment
Inorganic Contaminants						
Antimony	N	0.3	ppb	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Barium	N	0.065	ppm	2	2	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	N	1.6	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Copper*	N	0.091	ppm	1.3	AL=1.3	Corrosion of household plumbing; erosion of natural deposits
Fluoride	N	0.61	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum plants
Lead*	N	2.5	ppb	0	AL=15	Corrosion of household plumbing; erosion of natural deposits
Nitrate	N	0.86	ppm	10	10	Runoff from fertilizer use; leakage from septic tanks, sewage; erosion of natural deposits
Selenium	N	2.3	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Volatile Organic Contaminants						
Chlorine	N	1.55 Annual avg. Range 0.6-2.6	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAACS) Dry Ridge Cobble Stone Pfaff Street Site 1 River Bend	N	21.3 27.8 33.6 22.0 33.8 Annual avg. Range 16.4-47.1 6.9-39.7 22.7-50.1 20.5-51	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) Dry Ridge Cobble Stone Pfaff Street Site 1 River Bend	N	46.3 33.5 36 27.6 30.3 Annual avg. Range 12.8-78.4 12.7-75.6 10.9-65.5 7.6-69.7	ppb	NA	80	By-product of drinking water chlorination

*Copper and lead samples were collected from 30 area residences on 9-23-16. Only the 90th percentile is reported. None of the samples exceeded the MCL.

Table of Test Results - Unregulated Contaminants

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Sodium*	N	124	ppm	NE	20	Erosion of natural deposits
Sulfate	N	265	ppm	250	250	Erosion of natural deposits

*Sodium is an unregulated contaminant. Our sodium level exceeds the guidance MCL. Anyone having a concern over sodium should contact their primary health care provider.