

Annual Drinking Water Quality Report 2017  
**MINERAL WELLS PSD**  
**53 Fox Run Dr.**  
**Mineral Wells WV, 26150**  
**PWS# WV3305405**  
**April 23, 2018**

**Why am I receiving this report?**

In compliance with the Safe Drinking Water Act Amendments, the **Mineral Wells PSD** 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, 2017 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact **Todd Anderson, Operations Manager** or **Bill Byers, Chief Operator** at **(304) 489-2915**. If you have any further questions, comments or suggestions, please attend any of our regularly scheduled water board meetings held on the **3<sup>rd</sup> Thursday of every month at 2:00PM in the conference room of the PSD Office, Mineral Wells, WV.**

**Where does my water come from?**

Your drinking water source is **surface** water purchased from Claywood Park PSD which uses water from the Little Kanawha River. Also, Mineral Wells PSD has an emergency source, if needed, from the Parkersburg Utility Board which uses **ground** water from wells.

**Source Water Assessment**

A Source Water Assessment was conducted in 2016 by the West Virginia Bureau for Public Health (WVBPH). The intake that supplies drinking water to the **Claywood Park PSD** 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 at our office during business hours or from the WVBPH 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 required 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
- **NTU** - Nephelometric Turbidity Unit, used to measure cloudiness in water
- **NE** - not established
- **N/A** - not applicable

The **Mineral Wells PSD, Claywood Park PSD and Parkersburg Utility Board**, routinely monitor for contaminants in your drinking water according to federal and state laws. The tables below show the results of our monitoring for contaminants.

**Table of Test Results - Regulated Contaminants – Mineral Wells PSD**

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>						
Copper* (2017)	N	0.402	ppm	1.3	AL=1.3	Corrosion of household plumbing; erosion of natural deposits
Lead* (2017)	N	1.6	ppb	0	AL=15	Corrosion of household plumbing; erosion of natural deposits
<b>Volatile Organic Contaminants</b>						
Chlorine	N	1.8 Annual Avg. Range 0.7-2.5	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAAC5) Limestone BPS	Y	34.8 Annual Avg. Range 26.0-50.5	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) Limestone BPS	N	51.0 Annual Avg. Range 30.6-66.5	ppb	NA	80	By-product of drinking water chlorination
Haloacetic acids (HAAC5) Windy & Science Hill	Y	52.7 Annual Avg. Range 17.2-114.0	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) Windy & Science Hill	N	65.9 Annual Avg. Range 42.2-86.5	ppb	NA	80	By-product of drinking water chlorination
Haloacetic acids (HAAC5) Salsbury BPS	N	37.5 Annual Avg. Range 15.5-75.2	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs) Salsbury BPS	N	42.9 Annual Avg. Range 24.0-57.8	ppb	NA	80	By-product of drinking water chlorination

\* Copper and lead samples were collected from 20 area residences on June 27, 2017. Only the 90<sup>th</sup> percentile is reported. None of the samples collected exceeded the MCL. The next scheduled testing will be in 2020.

**Table of Test Results - Regulated Contaminants – Claywood Park PSD (PWS# WV3305402)**

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
<b>Microbiological Contaminants</b>						
Turbidity	N	0.26 100% of monthly samples <.03	NTU	0	TT	Soil runoff
Total organic carbon	N	1.7	ppm	NA	TT	Naturally present in the environment
<b>Inorganic Contaminants</b>						
Barium	N	0.0209	ppm	2	2	Discharge from drilling waste; discharge from metal refineries, erosion of natural deposits
Copper*	N	0.311	ppm	1.3	AL=1.3	Corrosion of household plumbing; erosion of natural deposits
Fluoride	N	0.80	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth
Lead*	N	1.3	ppb	15	AL=15	Corrosion of household plumbing
Nitrate	N	0.3	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits
<b>Volatile Organic Contaminants</b>						
Chlorine	N	1.8 Annual Avg. Range 0.4-3.0	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAAC5) Cedar Grove	N	52.4 Annual Avg. Range 17.4-86.8	ppb	N/A	60	By-product of drinking water disinfection
Mountwood Park		56.1 Annual Avg. Range 27.3-76.6	ppb	N/A	60	By-product of drinking water disinfection

Total trihalomethanes (TTHMs) Cedar Grove	N	49.9 Annual Avg. Range 18.5-66.7	ppb	N/A	80	By-product of drinking water chlorination
				N/A	80	By-product of drinking water chlorination
		64.5 Annual Avg, Range 29.3-81.7	ppb	N/A	80	By-product of drinking water chlorination

\* Copper and lead samples were collected from 40 area residences on 8/30/17-9/20/17. Only the 90<sup>th</sup> percentile is reported. None of the samples exceeded the MCL.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or nervous system, and may have an increased risk of getting cancer.

### Table of Unregulated Contaminants

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Sodium	N	13.1	ppm	0	20	Erosion of natural deposits
Sulfate	N	11.8	ppm	250	250	Erosion of natural deposits

### Table of Test Results - Regulated Contaminants – Parkersburg Utility Board (PWS#WV3305407)

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
<b>Inorganic Contaminants</b>						
<b>Microbiological Contaminants</b>						
Turbidity	N	0.028 100% of monthly samples <.03	NTU	0	TT	Soil runoff
Nitrate	N	0.25	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits

Fluoride	N	.69	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth
<b>Volatile Organic Contaminants</b>						
Chlorine	N	1.56 Annual Avg. Range 1.5-1.6	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAAC5)	N	10.9 Annual Avg. Range 7.5-16.3	ppb	NA	60	By-product of drinking water disinfection
Total trihalomethanes (TTHMs)	N	47.9 Annual Avg. Range 30.0-91.1	ppb	NA	80	By-product of drinking water chlorination

### Table of Unregulated Contaminants

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Sodium	N	27.1	ppm	0	20	Erosion of natural deposits

The Mineral Wells PSD received three “Notice of Violation” letters from the State of West Virginia Bureau of Health one on March 17, 2017, June 30, 2017 and on September 1, 2017 for a Maximum Contaminant Level (MCL) Violation (Haloacetic Acids (HAA5)). These incidents occurred on 1/1/17 thru 3/31/17; 4/1/17 thru 6/30/17 and 7/1/2017 thru 9/30/2017. The Mineral Wells PSD has made every effort and has taken precaution to return to compliance.

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or nervous system, and may have an increased risk of getting cancer.

### Additional Information

All other water test results for the reporting year 2017- were all non-detects.

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

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 **Mineral Wells PSD** 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

**This report will not be mailed. A copy will be provided to you upon request by calling the office during regular business hours (8:00 – 4:00) at 304-489-2915**