

Annual Drinking Water Quality Report 2008

City of Chapmanville

PO Box 426

Chapmanville WV 25508

PWS# 3302317

June 2, 2009

Why am I receiving this report?

In compliance with the Safe Drinking Water Act Amendments, the **City of Chapmanville** 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, 2008 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact **Jerry Workman, Chief Operator @ 304-855-3276**. If you have any further questions, comments or suggestions, please attend any of our regularly scheduled water board meetings held on the **2nd Thursday of every month at 4:00pm in the Chapmanville City Hall on Tiger Lane.**

Where does my water come from?

Your drinking water source is purchased from **Logan County PSD** which is Surface water from the Guyandotte River.

Source Water Assessment

A Source Water Assessment was conducted in 2003 by the West Virginia Bureau for Public Health (WVBPH). The intake that supplies drinking water to the **Logan County 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 City of Chapmanville and Logan County PSD routinely monitors 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 - Chapmanville

Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants						
Copper	N	0.047	ppm	1.3	AL=1.3	Corrosion of household plumbing; erosion of natural deposits
Lead	N	4	ppb	0	AL=15	Corrosion of household plumbing; erosion of natural deposits
Volatile Organic Contaminants						
Chlorine	N	2.0 Annual Avg. 0.9-3.8 range	ppm	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic acids (HAAC5)	N	40.55 Annual Avg. 19.1-49.8 range	ppb	NA	60	By-product of drinking water disinfection

Total trihalomethanes (TTHMs)	N	39.3 Annual Avg. 11.3-74.3 range	ppb	NA	80	By-product of drinking water chlorination
-------------------------------	---	--	-----	----	----	---

* Copper and lead samples were collected from 10 area residences on 9/3/08. Only the 90th percentile is reported. None of the samples collected exceeded the MCL.

Table of Test Results - Regulated Contaminants - Logan County PSD

Water Treated at Northern Regional Water Treatment Plant						
Contaminant	Violation Y/N	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Turbidity	N	0.06 100% of Monthly Samples <0.3 NTU	NTU	N/A	TT	Soil Runoff
Total Organic Carbon	N	1.53	PPM	N/A	TT	Naturally present in the environment
Inorganic Contaminants						
Barium	N	0.05	PPM	2	2	Discharge of Drilling Wastes
Chromium	N	1.22	PPB	100	100	Discharge from steel and pulp mills; Erosion of natural deposits
Copper*	N	0.308	PPM	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits
Cyanide	N	0.116	PPM	0.2	0.2	Discharge from plastic and fertilizer factories; Discharge from steel/metal factories
Fluoride	N	0.98	PPM	4	4	Water additive that promotes strong teeth
Mercury	N	0.939	PPB	2	2	Erosion of natural deposits
Lead*	N	1.5	PPM	0	AL=15	Corrosion of household plumbing systems; erosion of natural deposits
Nitrate	N	0.72	PPM	10	10	Run off from fertilizer; leaching
Selenium	N	2.06	PPB	50	50	Discharge from mines.
Volatile Organic Contaminants						
Chlorine	N	1.56 (Average) Range 0.5 to 2.6	PPM	4 MRDLG	4 MRDL	Water additive used to control microbes
Haloacetic Acids (HAA5)	N	29.3	PPB	N/A	60	By-product of drinking water disinfection
TTHM's (Total Trihalomethanes)	N	50.0	PPB	N/A	80	By-product of drinking water disinfection
Unregulated Contaminants						
Sodium	N	34.6	PPM	NE	20	Erosion of natural deposits
Sulfate	N	105	PPM	250	250	Erosion of natural deposits
Nickel	N	3.3	PPB	100	100	Erosion of natural deposits

* Copper and lead samples were collected from 30 area residences on June 2008. Only the 90th percentile is reported. None of the samples collected exceeded the MCL.

WE ARE PLEASED TO REPORT THAT THE CITY OF CHAPMANVILLE MET ALL FEDERAL AND STATE WATER STANDARDS FOR THE REPORTING YEAR 2008.

Additional Information

All other water test results for the reporting year 2008 were all non-detects.

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

This report will not be mailed. A copy will be provided to you upon request at our office during regular business hours.