

Annual Drinking Water Quality Report 2022  
**Enlarged Hepzibah PSD**  
**Drawer H**  
**Hepzibah, WV 26369**  
**PWS# WV3301709**  
**June 28, 2023**

### **Why am I receiving this report?**

In compliance with the Safe Drinking Water Act Amendments, the **Enlarged Hepzibah Public Service District** 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, 2022 or earlier if not on a yearly schedule.

If you have any questions concerning this report, you may contact **Kevin C. Short, General Manager, Monday through Friday (7:00 AM – 3:30 PM) at 304-623-2217**. If you have any further questions, comments or suggestions, please attend any of our regularly scheduled water board meetings held on the **2<sup>nd</sup> Monday of every month at 5:00 PM in the Enlarged Hepzibah Public Service District Office, 18 Sable Circle, Reynoldsville, WV 26422**.

### **Where does my water come from?**

Your drinking water source is **purchased** from the Clarksburg Water Board. The Clarksburg Water Board utilizes **surface** water from the West Fork River.

### **Source Water Assessment**

A Source Water Assessment was conducted in 2003 by the West Virginia Bureau of Public Health (WVBPH). A Source Water Protection Plan was updated in 2019. The intake that supplies drinking water to the **Clarksburg Water Board** 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 Protection Plan, which contains more information is available for review at [www.clarksburgwater.com/cwb-sourcewaterprotectionplan.pdf](http://www.clarksburgwater.com/cwb-sourcewaterprotectionplan.pdf) or a copy will be provided to you at Clarksburg Water Boards 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 effect.

### **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.

All 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

The following tables list all of the drinking water contaminants which were detected during the 2022 calendar year. The presence of these contaminants does not necessarily indicate the water poses a health risk. Unless noted, the data presented in this table is from the testing done January 1- December 31, 2022. The state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

## Water Quality Data Table

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

- **AL – Action Level**, or the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow.
- **LRAA – Locational Running Annual Average** is an average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters.
- **RAA – Running Annual Average** is an average of sample results obtained over the most current 12 months and used to determine compliance with MCLs.

- **MCL – Maximum Contaminant Level**, “Maximum Allowed” 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.
- **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.
- **SMCL – Secondary Maximum Contaminant Level**, is the recommended level for a contaminant that is not regulated and has no MCL. These are non-enforceable guidelines regarding chemicals that may cause cosmetic or aesthetic effect in drinking water.
- **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.
- **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 the use of disinfectants to control microbial contaminants.
- **TT – Treatment Technique**, is a required process intended to reduce levels of a contaminant in drinking water
- **N/A** – not applicable
- **ND** – Not Detectable, no contaminants were detected in the sample(s) taken.
- **NE** – not established
- **NTU** – Nephelometric Turbidity Unit, used to measure cloudiness in water is not regulated.
- **Ppb** – parts per billion or micrograms per liter (**µg/l**)
- **pCi/L** – picocuries per liter (a measure of radioactivity)
- **mrem/yr** – **Millirems per Year** or a measure of radiation absorbed by the body.
- **ppm** – parts per million or milligrams per liter (**mg/l**)
- **MPA – Monitoring Period Average** – is an average of sample results obtained during a defined time frame.
- **SU** – Standard Unit

The **Enlarged Hepzibah Public Service District** routinely monitors for contaminants in your drinking water according to federal and state laws. The tables below show the results of our monitoring for contaminant.

**Tables of Test Results - Regulated Contaminants Enlarged Hepzibah PSD PWS# WV3301726**

Disinfectant						
Contaminant	Violation Y/N	Level Detected	Unit of Measure	MRDLG	MRDL	Likely Source of Contamination
Chlorine	N	RAA 0.749  Range 0.2-1.6	ppm	4	4	Water additive used to control microbes

Disinfection Byproducts	Violation Y/N	Highest LRAA	Range (low/high)	Unit of measure	MCLG	MCL	Likely source of Contamination
*Haloacetic acids (HAA5) 89 Music Valley Rd	N	39.4	28 / 54	ppb	NA	60	By-product of drinking water disinfection
**Total trihalomethanes (TTHMs) 89 Music Valley Rd	N	59.3	0 / 92	ppb	NA	80	By-product of drinking water chlorination

\*We are required to monitor your drinking water regularly. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During the 2<sup>nd</sup> quarter of 2021 the lab did not return a result for the HAA5 sample that was taken. Therefore, we cannot be sure of the quality of your drinking water during that quarter.

\*\*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.

<b>Lead &amp; Copper - Copper and Lead samples were collected from 20 area residences on June 28, 2022</b>							
Contaminant	Monitoring Period	90 <sup>th</sup> Percentile	Range	Unit	AL	Sites Over AL	Likely Source of Contamination
Copper, Free	June 2022	0.0197	0.0015 – 0.0329	ppm	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	June 2022	1.1	<0.5 – 8.1	ppb	15	0	Corrosion of household plumbing systems; erosion of natural deposits

<b>Lead &amp; Copper - Copper and Lead samples were collected from 20 area residences on November 15-17, 2022</b>							
Contaminant	Monitoring Period	90 <sup>th</sup> Percentile	Range	Unit	AL	Sites Over AL	Likely Source of Contamination
Copper, Free	November 2022	0.0692	0.0012 – 0.390	ppm	1.3	0	Corrosion of household plumbing systems; erosion of natural deposits.
Lead	November 2022	1.9	<0.5 – 1.9	ppb	15	0	Corrosion of household plumbing systems; erosion of natural deposits

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 **Enlarged Hepzibah 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>.

Enlarged Hepzibah PSD is working towards identifying service line materials throughout the water distribution supply, the service line inventory is required to be submitted to the state by October 16, 2024. The most up to date inventory is located at our office at 18 Sable Circle, Reynoldsville, WV 26422. If you have further questions about our inventory, please contact Kevin Short at 304-623-2217

**During the 2022 calendar year, we had the below noted violation(s) of drinking water regulations.**

Compliance Period	System Name	Number	Analyte	Comments
1/1/22 – 6/30/22	Enlarged Hepzibah PSD	2022-599041	Lead & Copper	Follow-up or Routine Tap M/R (LCR)
7/1/2021 – 12/31/2021	Enlarged Hepzibah PSD	2022-599042	Public Notice	Public Notice Linked to Violation

Enlarged Hepzibah PSD received the above violations during the year.

The violations were for paperwork issues and the system personnel are doing all they can to make sure it doesn't happen again.

The Health Effects Language below is required, although there were NO problems with water quality related to the violations.

\*Copper: Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.

\*Lead: Infants and children who drink water containing lead in the excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

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 Some or all of our drinking water is supplied from another water system. The table below lists some of the drinking water contaminants which were detected in 2022. The entire list can be found at [www.clarksburgwater.com/](http://www.clarksburgwater.com/)

**Tables of test results for regulated contaminants: Clarksburg Water Board**

EPA's surface water treatment rules require conventional water treatment plants like Clarksburg Water Boards to monitor Turbidity. The NTU must never exceed 1.0 at any time. The samples for turbidity must be less than or equal to 0.3 NTU in at least 95% of the samples in one month. Clarksburg's turbidity samples are in the table below. EPA considers these limits as a TT or Treatment Technique. A Treatment Technique is a required process intended to reduce the level of a contaminant in drinking water.

TURBIDITY			
Monthly % < 0.3 NTU	Yearly High	Violation	Likely Source of Contaminant
100 %	0.09 NTU in July 2022	No	Soil Runoff

The removal of Total Organic Carbon (TOC) is an important process to help control Disinfection By Products created when Chlorine is used as a disinfectant. TOC testing measures the level of organic molecules or contaminants present. TOC tests will not determine which compounds are present, but only the amount of compounds. Specific ultraviolet absorbance (SUVA) provides a general characterization of the nature of natural organic matter (NOM) in a water sample and is typically performed for the purpose of determining disinfection by-product (DBP) formation potential.

The results of these tests are in the table below:

TOTAL ORGANIC CARBON (TOC) & DISSOLVED ORGANIC CARBON (DOC)						
Contaminant	RAA	Range (low/high)	Unit	Ideal Goal (MCLG)	Highest Level Allowed (MCL)	Likely Source of Contaminant
TOC (Source)	2.63	1.8/3.6	ppm	N/A	TT	Naturally occurring in the environment.
DOC (Source)	3.11	1.8/7.6	ppm	N/A	TT	Naturally occurring in the environment.
SUVA (Source)	3.38	1.4/6.3	L/mg-m	N/A	TT	Naturally occurring in the environment.
UV Absorbance @254 nm (Source)	0.1	0.025/0.14	Cm <sup>-1</sup>	N/A	TT	Naturally occurring in the environment.

TOC (Finished)	1.9	1.4/2.6	ppm	N/A	TT	Naturally occurring in the environment.
DOC (Finished)	2.19	1.3/3.3	ppm	N/A	TT	Naturally occurring in the environment.
SUVA (Finished)	1.59	<0/2.5	L/mg-m	N/A	TT	Naturally occurring in the environment.
UV Absorbance @254 nm (Finished)	0.04	<0/0.058	Cm <sup>-1</sup>	N/A	TT	Naturally occurring in the environment.

Clarksburg Water Board collects 240 samples per year to test for bacteria. These samples are collected, not only because it's on the sampling schedule put out by the primacy agency, but to make sure the disinfectant process is working throughout the distribution system. The Water Treatment Operation Specialists at Clarksburg Water Board are some of the best around and work tirelessly to distribute the best water possible within all the parameters set forth by the United States Environmental Protection Agency. The system collects 24 Chlorine samples every day in the treatment plant and 1 in the distribution system. The results of the Chlorine sampling for 2022 are in the table below.

DISINFECTANT							
Contaminant	Violation	Level Detected	Range (low/high)	Unit of Measure	MRDLG	MRDL	Likely Source of Contamination
Chlorine (Water Plant)	No	RAA 1.5	1.2 / 1.8	ppm	4	4	Water additive used to control microbes.
Chlorine (Distribution)	No	RAA 1.4	1.2 / 1.6	ppm	4	4	Water additive used to control microbes.

Disinfection Byproducts	Location	Highest LRAA	Range (low/high)	Highest Level Allowed (MCL)	Likely Source of Contaminant	Violation
Haloacetic Acids (HAA5)	Rich Oil	47.88 ppb	18 / 55 ppb	60 ppb	By-Product of Drinking Water Disinfection	No
*Total Trihalomethanes (TTHMs)	Rich Oil	50.4 ppb	20 / 97 ppb	80 ppb	By-Product of Drinking Water Disinfection	No
**Haloacetic Acids (HAA5)	Tri County Pit	47.75 ppb	26 / 69 ppb	60 ppb	By-Product of Drinking Water Disinfection	No
*Total Trihalomethanes (TTHMs)	Tri County Pit	77 ppb	27 / 146 ppb	80 ppb	By-Product of Drinking Water Disinfection	No
**Haloacetic Acids (HAA5)	FBI	44.5 ppb	21 / 69 ppb	60 ppb	By-Product of Drinking Water Disinfection	No
*Total Trihalomethanes (TTHMs)	FBI	64.5 ppb	25 / 130 ppb	80 ppb	By-Product of Drinking Water Disinfection	No
**Haloacetic Acids (HAA5)	Mtn. State Electric	45 ppb	22 / 67 ppb	60 ppb	By-Product of Drinking Water Disinfection	No
*Total Trihalomethanes (TTHMs)	Mtn. State Electric	73.75 ppb	28 / 140 ppb	80 ppb	By-Product of Drinking Water Disinfection	No

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

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

INORGANIC CONTAMINANTS						
Contaminant	Violation	Level Detected	Unit of Measure	MCLG	MCL	Likely Source of Contamination
Barium	No	0.027	ppm	2	2	Discharge from drilling wastes, discharge from metal refineries, and erosion of natural deposits.
Chromium	No	0.27	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride	No	0.63	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from aluminum and fertilizer plants.
Nitrate	No	0.26	ppm	10	10	Runoff from fertilizer use; erosion of natural deposits.
Selenium	No	0.39	ppb	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.

National Secondary Drinking Water Regulations are non-enforceable guidelines regarding contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply.

SECONDARY CONTAMINANT			
Contaminant	Level Detected	Unit of Measure	SMCL
Sulfate	84.5	ppm	250
PH	8.16 - 8.80	SU	6.5-8.5

<b>Lead &amp; Copper - Samples were collected from 60 area residences in 2022</b>						
<b>First Set on 02/06/2022 and the Second Set on 11/15/2022</b>						
Contaminant	90% of Test Levels Were Less Than	Ideal Goal (MCLG)	EPA's Action Level	Number of Tests with Levels Above EPA's Action Level	Typical Sources	Violation
Copper, Free	0.0679 ppm	1.3 ppm	90% of homes less than 1.3 ppm	0 - out of 120	Corrosion of Household Plumbing	No
Lead	15.0 ppb	0.64 ppb	90% of homes less than 15 ppb	0 - out of 120	Corrosion of Household Plumbing	No

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 Clarksburg Water Board 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 United States Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

In the 2022 calendar year, the Clarksburg Water Board had the below noted violation(s) of drinking water regulations:

Date	Number	Type / Name	Compliance Period
11/16/2022	133645	03 / Monitoring, Routine Major (Sampling)	01/01/2022-12/31/2022
2/15/2023	133646	72 / CCR Adequacy/Availability/Content	10/01/2022

The Clarksburg Water Board has made every effort and taken every precaution to return to compliance.

<b>UNREGULATED CONTAMINANTS</b>					
Contaminant	Date Collected	High	Range Low/High	Highest Level Allowed (MCL)	Likely Source of Contamination
Alkalinity, Total	8/3/2022	94 ppm	45/94	10000	Erosion of Natural Deposits
Calcium	6/13/2022	63.6 ppm	31.2/63.6	N/A	N/A
Calcium Hardness	6/13/2022	159 ppm	78/159	N/A	N/A
Conductivity @25C	8/26/2022	414 mmhos/cm	0.212/414	N/A	N/A
Cryptosporidium	3/20/2018	1	0-1	N/A	N/A
Giardia Lamblia	9/18/2018	1	0-1	N/A	N/A
Hardness, Calcium Magnesium	7/12/2021	133 ppm	78/133	N/A	N/A
Nickle	1/6/2022	0.46 ppb	One Sample Taken	100	Erosion of Natural Deposits
Contaminant	Date Collected	High	Range Low/High	Highest Level Allowed (MCL)	Likely Source of Contamination
Sodium	1/6/2022	10.4 ppm	One Sample Taken	1000	Erosion of Natural Deposits
Temperature	7/24/2022	81 F	34/81	N/A	N/A



mmhos/cm	one millionth of an Ohm (Electrical measurement of conductivity) per centimeter. US rivers range from 50 to 1500 mmhos/cm
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**Additional Information**

Sodium is an unregulated contaminant. Anyone having a concern over sodium should contact their primary care provider.

The Clarksburg Water Board had an on-site visit from the West Virginia Bureau of Public Health for a Sanitary Survey on June 29, 2022 and no deficiencies were reported.

The Clarksburg Water Board conducted monitoring of contaminants included in the Unregulated Contaminant Monitoring Rule (UCMR) issued by the EPA. Unregulated Contaminants are those that don't yet have a drinking water standard set by the EPA. The purpose of monitoring for these contaminants is to help EPA to decide whether or not the contaminants should have a standard.

**EPA - Unregulated Contaminants Monitoring Rule (UCMR) Schedule**

Title	UCM-State Rounds 1&2	UCMR 1	UCMR 2	UCMR 3	UCMR 4	UCMR 5
Testing Periods	(1988-1997)	(2001-2005)	(2007-2011)	(2012-2016)	(2017-2021)	(2023-2025)

**Clarksburg Water Board - Unregulated Contaminants Monitoring Rule (UCMR) Results**

UCMR 1 - Sampled 2002	No Detects on Any Samples			
UCMR 2 - Sampled 2010	No Detects on Any Samples			
UCMR 3 - Sampled 2013 & 2014				
Date	Site	Contaminant	Level detected	Unit of Measure
2013	Plant Effluent	Chlorate	32	µg/l
		Strontium	163.1	µg/l
	Distribution Site	Strontium	157.1	µg/l
		Chromium 6	0.03	µg/l
		Chlorate	33	µg/l

February 2014	Plant Effluent	Chlorate	69	µg/l
		Chromium 6	0.05	µg/l
		Strontium	105	µg/l
	Distribution Site	Chlorate	92	µg/l
		Chromium 6	.05	µg/l
		Strontium	123.3	µg/l

May 2014	Plant Effluent	Chromium	0.05	µg/l
		Molybdenum	1	µg/l
		Strontium	124.4	µg/l
		Vanadium	0.3	µg/l
	Distribution Site	Chromium	0.2	µg/l
		Chromium 6	0.03	µg/l
		Strontium	212	µg/l
August 2014	Plant Effluent	1,4-Dioxane	0.41	µg/l
		Chlorate	27	µg/l
		Chromium	0.04	µg/l
		Chromium 6	0.06	µg/l
		Strontium	157.2	µg/l
	Distribution Site	Chlorate	27	µg/l
		Chromium	24	µg/l
		Chromium 6	0.08	µg/l
		Strontium	153.4	µg/l
		Vanadium	0.2	µg/l
UCMR 4 - Sampled 2018 & 2019	No Detects on Any Samples			

### **Additional Information – Enlarged Hepzibah Public Service District**

All other water test results for the reporting year 2022 were all non-detects.

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

**PLEASE SHARE THIS REPORT WITH OTHER PEOPLE WHO DRINK THIS WATER, ESPECIALLY THOSE WHO DO NOT RECEIVE THIS INFORMATION DIRECTLY. (FOR EXAMPLE, RESIDENTS IN APARTMENT BUILDINGS, NURSING HOMES, SCHOOLS AND BUSINESSES).**