

## TERMS AND DEFINITIONS

HPUD routinely tests for contaminants in your drinking water as require by Federal and State laws. Unless noted otherwise, the table shows the results of our monitoring for the period from January 1 – December 31, 2024. In this data, you may find terms and abbreviations you are not familiar with. To help you better understand these terms, we have provided the following definitions:

**Action Level (AL)** is the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

**Below Detection Level (BDL)** indicates parameter was below detection limits for the recognized detection method.

**Contaminant** is any physical, chemical, biological, or radiological substance or matter in water, which may or may not be harmful depending upon the concentration.

**Maximum Contaminant Level (MCL)** is 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)** is 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.

**Maximum Residual Disinfectant Level (MRDL)** is the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants.

**Maximum Residual Disinfectant Level Goal (MRDLG)** is 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.

**Nephelometric Turbidity Unit (NTU)** is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Picocuries per Liter (pCi/L) is a measure of radioactivity in water.

**Secondary Standards** are guidelines pertaining to certain contaminants that may cause cosmetic effects, such as skin or tooth discoloration, or taste, odor, or discoloration in drinking water.

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

**Parts per million (ppm) or milligrams per liter (mg/l)** One part per million is equivalent to one minute in two years or a single penny in \$10,000.

**Parts per billion (ppb)** or micrograms per liter. One part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

## HOW CAN YOU GET INVOLVED?

Our Board of Commissioners typically meet on the second Monday of each month at 1:30 p.m. at HPUD's main office, located at 3745 Cunningham Road. For a complete schedule of the monthly Board Meetings please visit [www.hpud.org/board-meeting-schedule](http://www.hpud.org/board-meeting-schedule). Customers are always welcome to attend these meetings. Remember that your drinking water comes from area water bodies and it is important to safeguard our water supply.

The Commissioners of Hallsdale-Powell Utility District serve four-year terms. The remaining Commissioners make recommendations to the County Mayor after receiving input from the public. The Mayor selects Commissioners from a list submitted by the Board.

Decisions by the Board on customer complaints brought before them under the District's Customer Complaint Policy may be reviewed by the Utility Management Review Board of the Tennessee Department of Environment and Conservation, pursuant to Section 7-82-702(7) of the Tennessee Code Annotated.

## WATER & PUBLIC HEALTH

In order to ensure that tap water is safe to drink, EPA and the Tennessee Department of Environment and Conservation prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health. We have consistently met all these requirements and continually strive to deliver a high quality product. Our water not only meets, but exceeds, all State and Federal Drinking Water Standards and is safe.

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 healthcare 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.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

## ABOUT YOUR WATER SOURCE

The source of drinking water, (both tap water and bottled water) includes rivers, lakes, streams, ponds, springs, reservoirs and wells. As water travels over the surface of the 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 are listed in the Table containing our Water Quality Data.

Currently, your public drinking water comes from two sources: The Melton Hill Water Treatment Plant is supplied by surface water taken from Melton Hill Lake in Anderson County. The Norris Water Treatment Plant is supplied by surface water taken from Norris Lake in Union County. The Tennessee Department of Environment and Conservation (TDEC) has prepared a Source Water Assessment Program (SWAP) Report for all untreated water sources serving our water system.

According to the report, surface water from Melton Hill Lake is determined to be moderately susceptible to potential contamination. The surface water from Norris Lake water supply is determined to be low to moderately susceptible to potential contamination.

An explanation of TDEC's Source Water Assessment Program, susceptibility scorings and the overall report to the U.S. Environmental Protection Agency (EPA) may be viewed online at: <https://www.tn.gov/environment/programareas/wr-water-resources/water-quality/source-water-assessment.html>

## CONTACT INFORMATION

For more information about the data in this report, or to answer specific questions about the quality of your drinking water, please contact Nick Jackson, Plants Manager at (865) 925-3929.

It's up to all of us to help protect our water. As a utility that provides water to this region, it is even a greater responsibility for HPUD. We take this responsibility very seriously, as this report indicates.

We depend on clean water to drink and for many of us our lakes and rivers are an important part of our quality of life, whether it is fishing, boating, swimming or just having a picnic near the water.

We're doing all we can to make sure that people can enjoy this same quality of life for generations to come.

## TRANSLATION INFORMATION

Information is available for translation upon request. Please contact Hallsdale-Powell Utility District to request translated information.



# 2024 WATER QUALITY REPORT



# 2024 WATER QUALITY REPORT

Microbiological Contaminants	Violation Y/N	Range or Max	Avg	Unit	MCLG	MCL	Likely Source of Contamination
Total Coliform Bacteria	N	No Detection	N/A	%	N/A	N/A	Naturally present in the environment
E. Coli	N	No Detection	N/A	%	N/A	N/A	Human and animal fecal waste
Turbidity (Melton Hill) <sup>1</sup>	N	0.01 - 0.13	0.03	NTU	N/A	TT	Soil runoff
Turbidity (Norris) <sup>2</sup>	N	0.02 - 0.07	0.03	NTU	N/A	TT	Soil runoff

<sup>1</sup> Turbidity is a measure of the cloudiness of the water.

<sup>2</sup> We met the treatment technique for turbidity with 95% of monthly samples below the turbidity limit of 0.3 NTU.

Disinfectants	Violation Y/N	Range or Max	Avg	Unit	MCLG	MCL	Likely Source of Contamination
Chlorine (Melton Hill)	N	1.2-2.0	1.6	ppm	4	4	Used in water treatment to control microbes
Chlorine (Norris)	N	0.4-2.2	1.6	ppm	4	4	Used in water treatment to control microbes

Inorganic Contaminants	Violation Y/N	Range or Max	Avg	Unit	MCLG	MCL	Likely Source of Contamination
Aluminum	N	None Detected	N/A	ppm	N/A	0.01	Erosion from natural deposits
Arsenic	N	None Detected	N/A	ppb	N/5	10	Erosion from natural deposits
Chloride	N	7.47 - 9.2	8.335	ppm	N/A	250	Runoff, leaching from natural deposits
Fluoride	N	.01 - 0.7	0.471	ppm	4	4	Erosion from natural deposits; water additive which promotes strong teeth
Nitrate (Melton Hill)	N	0.353	N/A	ppm	10	10	Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits
Nitrate (Norris)	N	0.222	N/A	ppm	10	10	Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits
Silver	N	None Detected	N/A	ppm	N/A	N/A	Naturally present in the environment
Sodium	N	10.5 - 14.2	12.35	ppm	N/A	N/A	Erosion of natural deposits, used in water treatment
Sulfate	N	8.26 - 14.6	11.43	ppm	N/A	250	Naturally present in the environment
Total Dissolved Solids	N	124 - 133	128.5	ppm	N/A	500	Runoff, leaching from natural deposits
Zinc	N	None Detected	N/A	ppm	N/A	5	Erosion from natural deposits

Disinfection By-Products	Violation Y/N	Range or Max	Avg	Unit	MCLG	MCL	Likely Source of Contamination
Chlorite (Water Plant)	N	0.00-0.93	0.41	ppm	0.8	1	By-product of drinking water disinfection
Chlorite (Distribution System)	N	0.03-0.58	0.24	ppm	0.8	1	By-product of drinking water disinfection
Total Trihalomethanes <sup>3</sup>	N	Individual Site Range: 10-65 LRAA Max 44	N/A	ppb	N/A	80	By-product of drinking water chlorination
Total Haloacetic Acids <sup>3</sup>	N	Individual Site Range: 6-43 LRAA Max 37	N/A	ppb	N/A	60	By-product of drinking water chlorination

<sup>3</sup> Some people who drink water containing Trihalomethanes or Haloacetic Acids in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Total Organic Carbon (TOC)	Violation Y/N	Range or Max	Avg	Unit	MCLG	MCL	Likely Source of Contamination
Total Organic Carbon (raw)	N	1.34 - 3.17	2.32	ppm	N/A	TT	Naturally present in the environment
Total Organic Carbon (tap) <sup>4</sup>	N	0.74 - 1.8	1.3	ppm	N/A	TT	Naturally present in the environment

<sup>4</sup> We met the Treatment Technique Requirement for Total Organic Carbon in 2024.

Radionuclides	Violation Y/N	Range or Max	Avg	Unit	MCLG	MCL	Likely Source of Contamination
Gross Alpha (Melton Hill)	N	217 pCi/L	N/A	pCi/L	N/A	15 pCi/L	Naturally present in the environment
Gross Alpha (Norris)	N	0.792 pCi/L	0.79	pCi/L	N/A	15 pCi/L	Naturally present in the environment
Combined Radium (226 - 228) (Melton Hill)	N	0.34 pCi/L	0.91	pCi/L	N/A	5 pCi/L	Naturally present in the environment
Combined Radium (226 - 228) (Norris)	N	None Detected	N/A	pCi/L	N/A	5 pCi/L	Naturally present in the environment

Lead and Copper	Violation Y/N	Range	Unit	90th%	MCLG	MCL	Likely Source of Contamination
Copper	N	0.1-1.15	ppm	0.888	N/A	AL=1.3	Corrosion of household plumbing systems
Lead <sup>5</sup>	N	2.0-3.1	ppb	2.0	N/A	AL=15	Corrosion of household plumbing systems