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. 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: <u>https://www.tn.gov/environment/programareas/wr-waterresources/water-quality/source-water-assessment.html</u>

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

Naturally present in the environment	N/A	N/A	ppm	N/A	None Detected	z	Silver
Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits	10	10	ppm	N/A	0.222	v	Nitrate (Norris)
Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits	10	10	ppm	N/A	0.353	Z	Nitrate (Melton Hill)
Erosion from natural deposits; water additive which promotes strong teeth	4	4	ppm	0.471	.01-0.7	z	Fluoride
Runoff, leaching from natural deposits	250	N/A	ppm	8.335	7.47 - 9.2	z	Chloride
Erosion from natural deposits	10	N/S	ddd	N/A	None Detected	z	Arsenic
Erosion from natural deposits	0.01	N/A	ppm	N/A	None Detected	z	Aluminum
Likely Source of Contamination	MCL	MCLG	Unit	Avg	Range or Max	Violation Y/N	Inorganic Contaminants
Used in water treatment to control microbes	4	4	ppm	1.6	0.4 - 2.2	z	Chlorine (Norris)
Used in water treatment to control microbes	4	4	ppm	1.6	1.2-2.0	z	Chlorine (Melton Hill)
Likely Source of Contamination	MCL	MCLG	Unit	Avg	Range or Max	Violation Y/N	Disinfectants
			ITU.	y limit of 0.3 l	¹ Turbidity is a measure of the cloudiness of the water. ² We met the treatment technique for turbidity with 55% of monthly samples below the turbidity limit of 0.3 NTU	ess of the water urbidity with 95	¹ Turbidity is a measure of the clouding ² We met the treatment technique for t
Soil runoff	П	N/A	NTU	0.03	0.02 - 0.07	z	Turbidity (Norris) ²
Soil runoff	П	N/A	NTU	0.03	0.01 - 0.13	z	Turbidity (Melton Hill)
Human and animal fecal waste	N/A	N/A	%	N/A	No Detection	z	E. Coil
Naturally present in the environment	N/A	N/A	%	N/A	NoDetection	z	Total Coliform Bacteria
Likely Source of Contamination	MCL	MCLG	Unit	Avg	Range or Max	Violation Y/N	Microbiological Contaminants
REPORT	ΥTI	AL	QL	TER	2024 WATER QUALITY REPORT		

³ Some people who drink water containing Trihalomethanes or Haloacetic Acids in excess of the MCL over many years may experience problems cancer. 6 - 43 LRAA Max 37 with their liver, kidneys, or central nervous systems, and may have an increased risk of getting

Sulfate

z

8.26 - 14.6

11.43

ppm

N/A

250

Naturally present in the environment

Total Dissolved Solids

z

124 - 133

128.5

ppm

N/A

500

Runoff, leaching from natural deposits

Zinc

z

None Detected

N/A

ppm

N/A

СП

Erosion from natural deposits

Chlorite (Water Plant)

z

0.00-0.93

0.41

ppm

0.8

ч

By-product of drinking water disinfection

Disinfection By-Products

Violation Y/N

Range or Max

Avg

Unit

MCLG

MCL

Likely Source of Contamination

Total Haloacetic Acids

z

Total Trihalomethanes

z

Individual Site Range: 10-65 LRAA Max 44

N/A

ppb

N/A 0.8

80

By-product of drinking water chlorination By-product of drinking water disinfection

N/A

ppb

N/A

60

By-produ

ıct of drinking water chlorinatior

Chlorite (Distribution System)

z

0.03-0.58

0.24

ppm

Ц

Sodium

z

10.5 - 14.2

12.35

ppm

N/A

N/A

Erosion of natural deposits, used in water treatment

Total Organic Carbon (tap) 4 Total Organic Carbon (raw) 4 We met the Treatment Techn Total Organic Carbon (TOC) nque Requir Violation Y/N nent for Total Organic Carbon in 2024 z z Range or Max 0.74-1.8 1.34 - 3.17 2.32 1.3 Avg ppm Unit ppm MCLG N/A N/A MCL ⊐ ⊒ Naturally present in the enviror Naturally present in the enviro Likely Source of Contaminatior ment lent

	Copper	Lead and Copper	Combined Radium (226 - 228) (Norris)	Combined Radium (226 - 228) (Melton Hill)	Gross Alpha (Norris)	Gross Alpha (Melton Hill)	Radionuclides	
z	z	Violation Y/N	z	z	z	z	Violation Y/N	
2.0 - 3.1	0.163 - 1.15	Range	None Detected	0.34 pCi/L	0.792 pCi/L	2.17 pCi/L	Range or Max	
ppb	ppm	Unit	N/A	0.91	0.79	N/A	Avg	
0.002	0.888	90th%	pCi/L	pCi/L	pCi/L	pCi/L	Unit	
N/A	N/A	MCLG	N/A	N/A	N/A	N/A	MCLG	
AL= 15	AL= 1.3	MCL	5 pCi/L	5 pCi/L	15 pCi/L	15 pCi/L	MCL	
Corrosion of household plumbing systems	Corrosion of household plumbing systems	Likely Source of Contamination	Naturally present in the environment	Naturally present in the environment	Naturally present in the environment	Naturally present in the environment	Likely Source of Contamination	

⁶ Lead can cause serious health effects in people of all ages, especially pregnant people, infants (both formula-fed and breastfed), and young children. Lead in drinking water is primarily from materials and parts used in service lines and in home plumbing. HPUD is responsible for providing high quality drinking water and removing lead pipes but cannot control the variety of materials used in the plumbing in your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home. Because lead levels may vary over time, lead exposure is possible even when your tap sampling results do not detect lead at one point in time. You can help protect yourself and your family by identifying and removing lead materials within your home. Because lead levels may vary over family's risk. Using a filter, certifies by an American National Standards Institute accredited certifier to reduce lead, is effective in reducing lead exposures. Follow the instructions provided with the filter to ensure the filter is used properly. Use only cold water for drinking, cooking, and making baby formula. Boiling water does not remove lead from water. Before using tap water for drinking, cooking, or making baby formula, flush your pipes for several minutes. You can do this by running your tap, taking a shower, doing laundry or a load of dishes. If you have a lead service line or galvanized requiring replacement service line, you may need to flush your pipes for a longer period. If you are concerned about lead in drinking water and wish to have your water tested, contact HPUD. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at https://www.epa.gov/safewater/lead. Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have increased risk of t