



2024 ANNUAL WATER QUALITY REPORT

(2023 Water Data)

CEDAR CREST VILLAGE SYSTEM
Township of Pequannock



SAFE DRINKING WATER ACTT (SDWA)

Amendments to the Safe Drinking Water Act in 1996 require that utilities issue an annual “Consumer Confidence Report” to its customers. This report details where our water comes from, what it contains, and the risks our water testing and treatment are designed to prevent. The Township of Pequannock is committed to providing you with the safest and most reliable water supply. Informed consumers are our best allies in maintaining safe drinking water.

We are proud to report that the water provided by Pequannock Township meets or exceeds Federal primary water standards.

Water Source: The Pequannock Township Water Utility-Cedar Crest Village Water System provides potable water through the bulk purchase of water with Passaic Valley Water Commision(PVWC) via Riverdale Borough.

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at www.state.nj.us/dep/swap/ or by contacting the NJDEP, Bureau of Safe Drinking Water at (609) 292-5550. The source water assessment performed on our sources determined the following:

Pequannock Township Water Department-Cedar Crest System is a public community water system consisting of 0 well(s), 0 wells under the influence of surface water, 0 surface water intake(s), 0 purchased ground water source(s), and 1 purchased surface water source(s).

This system purchases water from the following system(s): STORAGE/BULK PURCHASE FROM PASSAIC VALLEY WATER COMMISSION SYSTEM PWSID: NJ1605002.

SUSCEPTIBILITY RATINGS FOR THE PEQUANNOCK TOWNSHIP WATER DEPARTMENT - CEDAR CREST SYSTEM SOURCES

The table below illustrates the susceptibility ratings for the seven contaminant categories (and radon) for each sources in the system. The table provides the number of wells and intakes that rated high (H), medium (M), or low (L) for each contaminant category. For susceptibility of purchased water, refer to the specific water system’s source water assessment report.

The seven contaminant categories are defined at the bottom of this page. DEP considered all surface water highly susceptible to pathogens, therefore all intakes receive a high rating for the pathogens category. For the purpose of Source Water Assessment Program, radionuclides are more of a concern for ground water than surface water. As a result, surface water intakes’ susceptibility to radionuclides was not determined and they all received a low rating.

If a system is rated highly susceptible for a contaminant category, it does not mean a customer is or will be consuming contaminated drinking water. The rating reflects the potential for contamination of source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any contaminants are detected at frequencies and concentrations above allowable levels. As a result of the assessments, DEP may customize (change existing) monitoring schedules based on the susceptibility ratings.

Sources	Pathogens			Nutrients			Pesticides			Volatile Organic Compounds			Inorganic			Radio Nuclides			Radon			Disinfection Byproducts Precursors		
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
PVWC Surface Water-4 Intakes	4			4				1	3		4		4					4			4			

* Pathogens: Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecal wastes.

* Nutrients: Compounds, minerals and elements that aid growth, that are both naturally occurring and man-made. Examples include nitrogen and phosphorus.

* Volatile Organic Compounds: Man-made chemicals used as solvents, degreasers and gasoline components. Examples include, benzene, methyl tertiary butyl ether (MTBE), and vinyl chloride.

* Pesticides: Man-made chemicals used to control pests, weeds and fungus. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine, and insecticides such as chlordane.

- * **Inorganics:** Mineral-based compounds that are both naturally occurring and man-made. Examples include arsenic, asbestos, copper, lead and nitrate.
- * **Radionuclides:** radioactive substances that are both naturally occurring and man-made. Examples include radium and uranium.
- * **Radon:** Colorless, odorless, cancer-causing gas that occurs naturally in the environment. For more information go to <http://www.nj.gov/dep/rpp/radon/index.htm> or call (800) 648-0394.
- * **Disinfection Byproduct Precursors:** A common source is naturally occurring matter in surface water. Disinfection byproducts are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.

TREATMENT OF WATER

The water is chlorinated for the purpose of disinfecting the water to kill microorganisms which can cause diseases such as typhoid fever and cholera.

TESTING OF WATER

To ensure the safety of our water, the Passaic Valley Water Commission monitors the quality of water at the source and within the distribution system. More than 100 compounds are evaluated at NJDEP and EPA certified laboratories. This report is based upon tests conducted in 2022. Terms used in the Water Quality Table on pages 1 & 2 and in other parts of this report are defined here.

AL: Action Level; the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

CDC: United States Centers for Disease Control and Prevention

CU: Color unit

Disinfection By-product Precursors: A common source is naturally-occurring organic material in surface water. Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (DBP precursors) present in surface water.

EPA: United States Environmental Protection Agency

MCL: Maximum Contaminant Level; 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.

MCLG: Maximum Contaminant Level Goal; 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.

Microbial Contaminants/Pathogens: Disease-causing organisms such as bacteria, protozoa, and viruses, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife. Common sources are animal and human fecal wastes. These contaminants may be present in source water.

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

MRDLG: Maximum Residual Disinfectant Level Goal; the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contamination.

NA: Not applicable

ND: Not detected above the minimum reporting level.

NJDEP: New Jersey Department of Environmental Protection

NJDWSC: North Jersey District Water Supply Commission

NTU: Nephelometric Turbidity Unit

Nutrients: Compounds, minerals and elements that aid growth, which can be either naturally occurring or man-made. Examples include nitrogen and phosphorus.

ppb: parts per billion (approximately equal to micrograms per liter)

ppm: parts per million (approximately equal to milligrams per liter)

PWS ID: Public Water System Identification

PVWC: Passaic Valley Water Commission

RAA: Running Annual Average

Radon: Colorless, odorless, cancer-causing gas that occurs naturally in the environment.

RUL: Recommended Upper Limit; the highest level of a constituent of drinking water that is recommended in order to protect aesthetic quality.

RUL Achieved: A "YES" entry indicates the State-recommended upper limit was not exceeded. A "NO" entry indicates the State-recommended upper limit was exceeded.

TON: Threshold Odor Number

TT: Treatment Technique; a required process intended to reduce the level of a contaminant in drinking water.

WTP: Water Treatment Plant

WHAT DO THE #S MEAN?

In this newsletter, we have dealt extensively with standards in determining federal and state safe drinking water requirements. A standard is a rule, a principle or a measurement established by governmental authority. These regulations protect the public health and welfare.

Life is dependent upon water. Water exists in nature in many forms...in clouds, rain, snow, ice and fog. Even while falling as rain, water picks up small amounts of gases, ions, dust, and particulate matter from the atmosphere. Then, as it flows over or through the surface layer, it dissolves and carries with it some of almost everything that it touches including that which is discarded by man.

HEALTH INFORMATION

To ensure that tap water is safe to drink, EPA prescribes limits on the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water.

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 the Environmental Protection Agency Safe Drinking Water Hotline (800 426-4791.)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and 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 which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salt and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff and residential uses.
- Organic chemical contaminants, including synthetic and volatile organics, which are byproducts 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 be the result of oil and gas production and mining activities.
- Radon - Radon is a radioactive gas that you can't see, taste or smell. Found throughout the U.S. radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water from showering, washing dishes and other household activities. Compared to radon entering the home through soil, radon entering the home through tap water will in most cases be a small source of radon in indoor air. Radon is a known human carcinogen. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. If you are concerned about radon in your home, test the air in your home. Testing is inexpensive and easy. Where the level of radon is 4 picocuries per liter of air (pCi/L) or higher, home repairs should be made which can correct this problem. There are simple ways to fix a radon problem that aren't too costly. For additional information, call New Jersey's Radon Information Line (800-648-0394) or EPA's Radon Hotline (800-SOS-RADON).
- Chlorine - A century ago, acute diseases such as typhoid fever and cholera were a very real threat to our health because the microorganisms that caused these diseases were found in public drinking water. However, for almost 100 years, water suppliers in America and other countries have used chlorine to treat or disinfect drinking water. According to the U.S. Environmental Protection Agency and other health agencies, chlorine is currently one of the most effective disinfectants to kill harmful microorganisms. Disinfection of all public water supplies is required by State and Federal laws and regulations, including the Safe Drinking Water Act and the Surface Water Treatment Rule.
- Total Trihalomethanes (TTHMs) - Untreated water contains organisms that may cause illness. Chlorine is used as a primary disinfectant and serves to maintain a level of disinfection in the pipes that transport water to homes and businesses. When organic compounds in untreated water react with chlorine, they produce byproducts known as trihalomethanes (TTHMs). Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.
- Turbidity - Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of water quality. High turbidity can hinder the effectiveness of disinfectants.

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 for contaminants in bottled water which must provide the same protection for public health.

Lead - 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. Pequannock Township 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 water, you may wish to have your water tested. Information on lead in drinking water is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

CONCERNING SODIUM IN OUR WATER

For healthy individuals, the sodium intake from water is not important because a much greater intake of sodium takes place from salt in diet. However, sodium levels above the recommended upper limit may be of concern to individuals on a sodium restricted diet.

If you have any questions about this Water Quality Report or the water testing performed by the Township, please contact the Water Department at (973) 835-5700 Ext. 191 between the hours of 8:30am and 4:30pm.

To learn more about the water system, its operation and supply, please contact the Department of Public Works at (973) 835-5700 Ext 191.

The Township Council meets on the second and fourth Tuesdays of each month. There is a public discussion period at each meeting where questions and concerns are addressed. These meetings are open to the public and you are always welcome and invited to attend.

PEQUANNOCK TOWNSHIP'S WATER QUALITY REPORT/CEDAR CREST VILLAGE SYSTEM

SOME PEOPLE MAY BE MORE VULNERABLE TO CONTAMINANTS IN DRINKING WATER THAN IS 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 HEALTH CARE PROVIDERS. EPA/CDC GUIDELINES ON APPROPRIATE MEANS TO LESSEN THE RISK OF INFECTION BY CRYPTOSPORIDIUM ARE AVAILABLE FROM THE SAFE DRINKING WATER HOTLINE (800 426-4791)

Regulated Contaminants (units)	Maximum Contaminant Level Goal (MCLG)	Maximum Contaminant Level (MCL)	Results PVWC	Violation	Source of Contaminant
Barium (ppm)	2	2	0.018	No	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits.
Flouride (ppm)	4	4	0.06	No	Erosion of natural deposits.
Nitrate (ppm)	10	10	2.6	No	Erosion of natural deposits.
Perfluorinated Compounds					
Perfluorooctanesulfonic acid [PFOS] (ppt)	0	13	5.52	No	Metal plating and finishing, discharge from industrial facilities, aqueous film-forming (firefighting) foam
Perfluorooctanoic acid [PFOA] (ppt)	0	14	7.99	No	Metal plating and finishing, discharge from industrial facilities, aqueous film-forming (firefighting) foam
Treatment Technique (TT) Monitoring					
Turbidity (NTU)	N/A	TT =1	Highest Level Detected = 0.121 (0.028-0.121)	No	Soil run-off
	N/A	TT = % of samples <0.3 NTU (min 95%)	Lowest Monthly % of Samples meeting Turbidity Limits = 100%		
Turbidity is a measure of the cloudiness of the water and is monitored as an indicator of water quality. High turbidity can limit the effectiveness of disinfectants.					
Total Organic Carbon (%)	N/A	TT = % Removal or meeting alternative criteria Removal Ratio of 1.0	Removal Ratio Range: 0.9 - 1.4	No	Naturally present in the environment
Secondary Compounds	Units	Secondary Standard (Recommended Upper Limit)	Results PVWC	RUL Achieved	
					Source of Contaminant
Alkylenzene Sulfonate [ABS]/ Linear Alkylbenzene Sulfonate [LAS] (ppb)	ppb	500	70 - 130	Yes	
Alkalinity	ppm	N/A	50.0 - 57.5	N/A	A characteristics of water caused by carbonate and bicarbonates
Aluminum	ppb	200	13.8 - 21.2	Yes	By-product of water treatment using aluminum salts.

Chloride	ppm	250	66.2 - 103.6	Yes	Erosion of natural deposits.
Color	CU	10	<5	Yes	Presence of manganese and iron, plankton, humus, peat and weeds.
Copper	ppm	<1	ND	Yes	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preserves.
Hardness (as CaCO3)	ppm	50-250	84 - 100	Yes	A characteristic of water caused primarily by salts of calcium and magnesium.
Iron	ppb	300	<100	Yes	
Manganese	ppm	50	9.9 - 17.7	Yes	Erosion of natural deposits.
Odor (TON)	TON	3	7.0 - 14.0	No	Algae and plant matter.
pH	units	6.5-8.5 optimum range	7.84 - 8.20	Yes	Presence of carbonates, bicarbonates, and carbon dioxide.
Sodium	ppm	50	50.2 - 81.1	No	Runoff from road salt and from some water softening processes.
Sulfate	ppm	250	44.1 - 59.3	Yes	Draining of mining wastes, erosion of natural deposits.
Total Dissolved Solids	ppm	500	203.5 - 327.5	Yes	Erosion of natural deposits.
Zinc	ppb	5000	1.4 - 22.8	Yes	Erosion of natural deposits.
Testing for Emerging Contaminants - PVWC PWSID NJ1605002					
Treated Drinking Water at the Entry Point to the Distribution System					
Contaminant		Range of Results		Test results presented in this table were collected in 2023 to monitor the occurrence of emerging contaminants. There are currently no EPA drinking water standards for these contaminants.	
Chlorate (ppb)		201.5			
1,4 Dioxane (ppb)		<0.07			
Perfluorobutanesulfonic acid [PFBS] (ppt)		<1.83-3.61		PVWC monitors for the presence of perfluorochemicals in source water and finished drinking water monthly.	
Perfluoroheptanoic acid [PFHp/A] (ppt)		<1.84-3.1			
Perfluorohexanesulfonic acid [PFHxS] (ppt)		<1.84-3.49			
Perfluorohexanoic acid [PFHxA] (ppt)		2.87-10.6			
Results from Pequannock Township Testing					
Stage 2 Disinfection By-Products					
	Units	Maximum Contaminant Level (MCL)	Results Pequannock Township	Violation	Source of Contaminant
TTHMs [Total]	ppb	80	42.80 - 73.00	No	By-product of drinking water disinfection.
			LRAA= 62.73		
Haloacetic Acids	ppb	60	27.20 - 48.80	No	By-product of drinking water disinfection.
			LRAA=44.95		
Secondary Compounds					
Chlorine Residual	ppm	4	0.2 – 1.4	No	Chlorine remaining in treated water and available to destroy disease causing organisms.