

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 NJDWSC Wanaque	Source of Contaminant
Arsenic		---	---	---	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes.
Barium	ppm	2	2/2	.0063	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Copper	ppm	0	AL=1.3	0.060	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Fluoride	ppm	---	4/1.2	---	Erosion of natural deposits; water additive promoting strong teeth; discharge from fertilizer and aluminum factories.
Lead	ppb	0	AL=15	0.008	Corrosion of household plumbing; erosion of natural deposits; leaching from wood preservatives.
Nitrate (ppm as nitrogen)	ppm	10	10/10	---	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.
Total Organic Carbon	(%)	---	TT (% removal)	40% (35% required) (Range 32 to 46%)	Naturally present in the environment.
Turbidity	ntu	no standard	TT (0.3 NTU 95% of the time; upper range 1 NTU)	.27 (0.07 Average)	Soil runoff.

Microbiological Substances:

Total Coliforms, 2001:3047	# of detects per month	0	Testing positive not greater than 5%	0	Source
Fecal Coliform	/100ml	0	0	0	Naturally present in the environment.
Escherichia Coli	/100ml	0	0	0	Human and animal fecal waste.

Organic Compounds:

TTHMs [Total]	ppb	N/A	80	RAA 62 (54-70)	By-product of drinking water disinfection.
Haloacetic Acids	ppb	---	60	RAA 44 (30-40)	By-product of drinking water disinfection.

Secondary Compounds	Units	Secondary Standard (Recommended Upper Limit)	Results NJDWSC Wanaque Falls	Source of Contaminant
Alkalinity	ppm	NS	23.4	
Aluminum	ppm	0.2	70	By-product of water treatment using aluminum salts.
Chloride	ppm	250	28.2	Erosion of natural deposits.
Chlorine Residual	ppm	4	1.01	Chlorine remaining in treated water and available to destroy disease causing organisms.
Color	CU	10	3	Presence of manganese and iron, plankton, humus, peat and weeds.
Hardness	ppm	50-250	39.7	A characteristic of water caused primarily by salts of calcium and magnesium.
Iron	ppm	50-250	.228	Erosion of natural deposits.
Manganese	ppm	0.05	.023	Erosion of natural deposits.
pH	units	6.5-6.8	8.16	Presence of carbonates, bicarbonates, and carbon dioxide.
Odor (TON)	TON	3	1	Algae and plant matter.
Sodium	ppm	50	16.8	Runoff from road salt and from some water softening processes.
Sulfate	ppm	250	6.2	Drainage of mining wastes, erosion of natural deposits.
Total Dissolved Salts	ppm	500	137	Erosion of natural deposits.
Zinc	ppm	5	6	Erosion of natural deposits.

TOWNSHIP OF PEQUANNOCK
530 TURNPIKE • POMPTON PLAINS, NJ 07444

2013 ANNUAL WATER QUALITY REPORT

LOCAL POSTAL CUSTOMER

*****ECRWSS****

CEDAR CREST VILLAGE SYSTEM

Township of Pequannock

PRESORT STANDARD
U.S. POSTAGE
PAID
Permit No. 595
Wayne, NJ
ECRWSS

SAFE DRINKING WATER ACT (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 North Jersey District Water Supply Commission (NJDWSC) via Riverdale Borough. NJDWSC water comes from a surface source supplied by the Wanaque reservoir system.

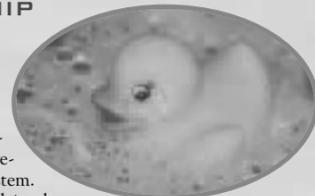
The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for this public water system, which is available at www.state.nj.us/dep/swap/ or by contacting the NJDEP, Bureau of Safe Drinking Water at (609) 292-5550. The source water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

This system purchases water from the following system(s) (if applicable): STORAGE / BULK PURCHASE FROM PASSAIC WATER VALLEY COMPANY'S LITTLE FALLS AND WANAQUE SYSTEMS

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 source 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 received a high rating for the pathogen 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 containment 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.

	Pathogens			Nutrients			Pesticides			Volatile Organic Compounds			Inorganics			Radio-Nuclides			Radon			Disinfection Byproducts Precursors					
Sources	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
Surface Water Intakes-5	5			5			2	3		5			5						5			5	5				

- * **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.

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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 North Jersey District 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 2011. Terms used in the Water Quality Table on pages 1 & 2 and in other parts of this report are defined here.

Maximum Contaminant Level (MCL) - 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) - 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) - The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Goal (MRDLG) - 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 contamination.

Primary Standards - Federal drinking water regulations that are health related.
Secondary Standard - Federal drinking water measurements for substances that are not health related. These are recommended levels and reflect aesthetic qualities of water.

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

Action Level: The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

Variance and Exemption: Both of these terms are defined as State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

- Key to Table:**
- AL = Action Level
 - MCL = Maximum Contaminant Level
 - MCLG = Maximum Contaminant Level Goal
 - MFL = Million Fibers per Liter
 - MRDL = Maximum Residual Disinfectant Level
 - MRDLG = Maximum Residual Disinfectant Goal
 - mrem/year = millirems per year (a measure of radiation absorbed by the body)
 - NTU = Nephelometric Turbidity Units
 - pci/l = picocuries per liter (a measure of radioactivity)
 - ppm = parts per million, or milligrams per liter (mg/l)
 - ppb = parts per billion, or micrograms per liter (ug/l)
 - ppt = parts per trillion, or nanograms per liter
 - ppq = parts per quadrillion, or picograms per liter
 - TT = Treatment Technique

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,

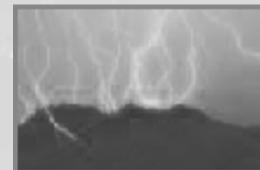
rain, snow, ice and fog. Even while falling as rain, water picks up small amount of gases, ions, dust, and particulate matter from the atmosphere. Then, as it flows over or through the surface layer, it dissolves and carries with it some of almost everything that it touches including that which is discarded 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:

- (A) Microbial contaminants which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- (B) 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.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, stormwater runoff and residential uses.
- (D) 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 stormwater runoff and septic systems.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.
- (F) 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 your state radon program or call ERA's Radon Hotline (800-SOS-RADON).
- (G) 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.

(H) 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 (thms). Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with the liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

(I) 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.

"If present, elevated levels of lead can cause serious health problem, 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>."

Routine collection frequency schedule was not properly updated. Collection schedule will be modified to coincide with Pequannock Township Water System collection schedule. For more information, please contact Peter Correale at 973-835-5700 ext. 128 or 530 Newark Pompton Turnpike, Pompton Plains, NJ 07444.

Please share this information with all the other people who drink this water, especially those who may have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses).

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WATER HARDNESS

Hardness is the level of dissolved natural minerals (calcium and magnesium) found naturally in water. These minerals are an important part of a healthy diet. Hard water contains more mineral nutrients and less sodium. A gradual build-up of calcium and magnesium may form a harmless, filmy white deposit on faucets, and in tea kettles. Hard water also requires more soap to lather fully.

CONCERNING NITRATES IN OUR WATER

Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than six months of age. High nitrate levels in drinking water can cause "Blue Baby" syndrome and shortness of breath. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.

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.



QUESTIONS ABOUT WATER TESTING AND THE PEQUANNOCK TOWNSHIP WATER SYSTEM

If you have any questions about this Water Quality Report or the water testing performed by the Township, please contact the Health Department at (973) 835-5700 Ext. 127 between the hours of 8:30 am and 4:30 pm.

To learn more about the water system, its' operation and supply, please contact the Department of Public Works at (973) 835-9001.

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.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

MONITORING REQUIREMENTS NOT MET FOR PEQUANNOCK TOWNSHIP WATER SYSTEM - CEDAR CREST VILLAGE

Our water system violated a drinking water standard over the past year. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct this situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2010-2012 we did not monitor or test for lead and copper, and therefore cannot be sure of the quality of our drinking water during that time.

What should I do?

There is nothing you need to do at this time. The table below lists the contaminant(s) we did not properly test for during the last year, how often we are supposed to sample for lead and copper and how many samples we are supposed to take, how many samples we took, when samples should have been taken, and the date on which follow-up samples will be taken.

Contaminant	Required sampling frequency	Number of samples taken	When all samples should have been taken	When samples were or will be taken
Lead	Every 3 years - 10 Samples	0	6/1/2012 - 9/30/2012	6/1/2013 - 9/30/2013
Copper	Every 3 years - 10 Samples	0	6/1/2012 - 9/30/2012	6/1/2013 - 9/30/2013

What happened? What is being done?

Routine collection frequency schedule was not properly updated. Collection schedule will be modified to coincide with Pequannock Township Water System collection schedule. For more information, please contact Peter Correale at 973-835-5700 ext. 128 or 530 Newark Pompton Turnpike, Pompton Plains, NJ 07444.

Please share this information with all the other people who drink this water, especially those who may have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses).

This notice is being sent to you by Pequannock Township. State Water System ID# NJ1431002 Date distributed: 6/10/2013