

Verona Township Water Department

Quality on Tap Report Annual Drinking Water Quality Report Township of Verona Water System For the Year 2021, Results from the Year 2020

PWSID # 0720001

Our Mission Continues

We are once again pleased to present to you this year's Annual Drinking Water Quality Report covering all testing performed between January 1 and December 31, 2020. Over the years, we have dedicated ourselves to producing drinking water that meets all state and federal standards. We continually strive to adopt new methods for delivering the best-quality drinking water to you. As new challenges to drinking water safety emerge, we remain vigilant in meeting the goals of source water protection, water conservation, and community education while continuing to serve the needs of all our water users.

Please remember that we are always available should you ever have any questions or concerns about your water. For more information about this report and other questions regarding your drinking water, please contact Jeff Sonntag at the Verona Water Department (973) 857-4843 or at jsonntag@veronanj.org. You may also call the U.S. EPA Bureau of Safe Drinking Water Hotline at (800) 426-4791 or the New Jersey Department of Environmental Protection (NJDEP), Bureau of Safe Drinking Water, at (609)292-5550.

What Is the Source of Our Drinking Water?

Our water is derived from two different water supplies: groundwater wells that the Township of Verona owns and operates, and treated surface water purchased from the Passaic Valley Water Commission (PVWC). The well water is withdrawn from the Feltville aquifer via two deep rock wells located in Verona. The water from PVWC comes from the Wanaque Reservoir, owned and operated by the North Jersey District Water Supply Commission (NJDWSC) and located in Wanaque, New Jersey. PVWC can also provide water from their Little Falls Treatment plant located in Totowa, New Jersey, that utilizes water from the Passaic River and/or the Pompton River. All water sources are treated to produce safe drinking water that satisfies all state and federal standards. In addition to these water supplies, we have emergency water connections with both Essex Fells and the New Jersey American Water Company, which are capable of providing drinking water to Verona in the event of an interruption in our normal water services.

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, 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, or 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 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.
- Total Coliform. Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially-harmful, bacteria may be present.
- Nitrate in Drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. 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 for advice from your health care provider.
- Nitrite. Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.
- Arsenic –your drinking water meets EPA’s standard for arsenic. Only a small amount of Arsenic was detected in your system. EPA’s standard balances the current understanding of arsenic’s possible health effects against the cost of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems (40 CFR 141.154(b)(1)). Some people who drink water containing arsenic in excess of the MCL over many years could experience skin damage or problems with their circulatory system, and may have an increased risk of getting cancer (40 CFR 141.154(f) and 141.153(d)(6)).

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. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

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

the 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 at 1-800-426-4791.

Source Water Assessment

The New Jersey of Environmental Protection (NJDEP) has prepared Source Water Assessment Reports and Summaries for most public water systems. Source Water Assessments and information on the Source Water Assessment Program can be obtained by logging onto NJDEP's source water assessment web site at www.state.nj.us/dep/swap or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. The NJDEP has not completed a Source Water Assessment Report and Summary for Verona Water System, but assessments have been completed for the PVWC and NJDWSC systems. These reports are available at www.state.nj.us/dep/swap or by contacting the NJDEP, Bureau of Safe Drinking Water at (609) 292-5550. Each report lists the susceptibility ratings for eight contaminate categories, ranging from LOW to HIGH.

Test Results

Our water is monitored for many different kinds of substances on a very strict sampling schedule. Also, the water we deliver must meet specific health standards. Here, we show only those substances that were detected in our water. (A complete list of all our analytical results is available upon request.) Remember that detecting a substance does not mean the water is unsafe to drink; our goal is to keep all detects below their respective maximum allowed levels. The state recommends monitoring for certain substances less often than once per year because the concentrations of these substances do not change frequently. In these cases, the most recent sample data are included, along with the year in which the sample was taken.

We participated in the 4th stage of the U.S. EPA's Unregulated Contaminate Monitoring Rule (UCMR4) program by performing additional tests on our drinking water. UCMR4 sampling benefits the environment and public health by providing the EPA with data on the occurrence of contaminants suspected to be in drinking water, in order to determine if the EPA needs to introduce new regulatory standards to improve drinking water quality. Unregulated contaminant monitoring data are available to the public, so please feel free to contact us if you are interested in obtaining this information. If you would like more information on the U.S. EPA's Unregulated Contaminate Monitoring Rule, please call the Safe Drinking Water Hotline at (800) 426-4791.

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 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 (1-800-426-4791).

REGULATED SUBSTANCES							
				Township of Verona Water Department			
SUBSTANCE (Unit of Measure)	YEAR SAMPLED	MCL [MRDL]	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW- HIGH	VIOLATION	TYPICAL SOURCE
Alpha Emitters (pCi/L)	2017	15	0	5.812	5.057 – 6.566	No	Erosion of natural deposits
Arsenic (ppb)	2020	5	0	0.0019	0.0015 – 0.0021	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production waste
Barium (ppm)	2020	2	2	0.312	0.268 – 0.356	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Chlorine (ppm)	2020	[4]	[4]	0.48	0.40 – 0.60	No	Water additive used to control microbes
Chromium (ppb)	2020	100	100	0.002	<0.0005 – 0.0034	No	Discharge from steel and pulp mills; Erosion of natural deposits
Fluoride (ppm)	2020	4	4	ND <0.2	NA	No	Erosion of natural deposits; Water additive that promotes strong teeth; Discharge from fertilizer and aluminum factories
Haloacetic Acids [HAAs] (ppb)	2020	60	NA	18.58	6.4 – 27.6	No	By-product of drinking water disinfection
Nickel (ppb)	2020	100	NA	0.0046	0.0045- 0.0047	No	Pollution from mining and refining operations; Natural occurrence in soil
Lead (ppb)	2020	15	15	< 2	0	No	Corrosion of household plumbing systems, erosion of natural deposits
Copper (ppb)	2020	1.3	1.3	0.0842	0.079 -	No	Corrosion of household

					0.090		plumbing systems; erosion of natural deposits; leaching from wood preservatives
Selenium (ppb)	2020	50	50	<0.006	NA	No	Discharge from petroleum and metal refineries; Erosion of natural deposits; Discharge from mines
Nitrate (ppm)	2020	10	10	1.6	1.6	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
TTHMs [Total Trihalomethanes] (ppb)	2020	80	NA	44.62	26.56 – 77.1	No	By-product of drinking water disinfection
PFNA (ng/l) Perfluorononanoic Acid	2020	13	6.5	<2	NA	No	These chemicals were used in the production of non-stick, stain repellent and chemically inert coatings. Compounds were also used to make firefighting foam, stain-resistant clothing, and food packaging.
PFOA (ng/l) Perfluorooctanoic Acid	2020	14	7	24.76	20.4 – 28.4	*Yes	These chemicals were used in the production of non-stick, stain repellent and chemically inert coatings. Compounds were also used to make firefighting foam, stain-resistant clothing, and food packaging.
PFOS(ng/l) Perfluorooctanesulfonic Acid	2020	13	6.5	8.42	7.61 – 9.7	No	These chemicals were used in the production of non-stick, stain repellent and chemically inert coatings. Compounds were also used to make

							firefighting foam, stain-resistant clothing, and food packaging.
EDB & DBCP (ug/l)	2020	0.2	NA	0.00702	0.007 – 0.00704	No	Synthetic organic compounds. DBCP was used primarily as soil fumigant for many crops like on soybeans, cotton, pineapples, and orchards.
VOCs	2020			<0.386	NA	No	VOC's include the burning of fuels such as gas, wood and kerosene and tobacco products. VOCs can also come from personal care products such as perfume and hair spray, cleaning agents, dry cleaning fluid, paints, lacquers, varnishes, hobby supplies and from copying and printing machines.
1,2,3 Tri-chloropropane (ug/l)	2020	0.03	NA	<0.00401	<0.004 – <0.00402	No	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards

*** Verona Water Department Violations, please note that while there were a few violations noted in the table above, the violations issued were due to paperwork. There were not violations due to a sample exceeding an action level. Please see list of system violations below.**

Violation # 2020-7896 – The system received a violation for lead consumer notice under the Lead and Copper Rule.

Violation # 2020-7897 – The system received a violation on the 2019 CCR Report

Violation # 2021-7898 – The system received a violation on the 2019 CCR Adequacy/Availability/Content of Report.

Violation # 2021-7899 – System received a violation on the Lead Consumer Notice.

Verona began testing for PFAS or Polyfluoroalkyl Substances as required by NJDEP in 2020. PFOA or Perfluorooctanoic Acid came back with an elevated result, the township is aware and is currently engineering a solution to treat for PFAS in the water.

UNREGULATED SUBSTANCES			
		Township of Verona Water Department	
SUBSTANCE (Unit of Measure)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH
Bromoform (ppb)	2020	1.05	<0.161-2.35

SECONDARY SUBSTANCES							
				Township of Verona Water Department			
SUBSTANCE (Unit of Measure)	YEAR SAMPLED	RUL	MCLG [MRDLG]	AMOUNT DETECTED	RANGE LOW- HIGH	VIOLATION	TYPICAL SOURCE
ABS/L.A.S. (ppm)	2017	500	NA	ND	NA	No	Common major components of synthetic detergents
Aluminum (ppb)	2020	200	NA	<0.01	NA	No	Erosion of natural deposits; Residual from some surface water treatment process
Chloride (ppm)	2020	250	NA	194	187-201	No	Runoff/ leaching from natural deposits
Color (units)	2020	10	NA	<2	NA	No	Natural occurring organic materials
Corrosivity (uits)	2020	Non-corrosive	NA	0.208	-0.107-0.308	No	Naturally or industrially influenced balance of hydrogen, carbon, and oxygen in the water; Affected by temperature and other factors
Hardness [as CaCO ₃] ⁶ (ppm)	2020	250	NA	400	376-424	No	Naturally occurring
Iron (ppb)	2020	300	<0.2	ND	NA	No	Leaching from natural deposits; Industrial wastes
Manganese (ppb)	2020	50	<0.01	ND	NA	No	Leaching from natural deposits
Odor (TON)	2020	3	<1	ND	NA	No	Naturally occurring organic materials
pH (Units)	2020	6.5-8.5	NA	7.52	7.21-7.82	No	Naturally occurring
Sodium ⁷ (ppm)	2020	50	NA	40.4	29.9-50.9	No	Naturally occurring
Sulfate (ppm)	2020	250	NA	35.45	25.4-45.5	No	Runoff/leaching from natural deposits; Industrial wastes
Total Dissolved Solids (ppm)	2020	500	NA	618.5	609 - 628	No	Runoff/leaching from natural deposits
Zinc (ppm)	2020	5	NA	0.012	<0.01 – 0.0147	No	Runoff/leaching from natural deposits; Industrial wastes

UCMR4		Township of Verona Water Department	
SUBSTANCE (Unit of Measure)	YEAR SAMPLED	AMOUNT DETECTED	RANGE LOW-HIGH
Germanium, Total (ppb)	2018	ND	NA
Manganese, Total (ppb)	2018	1.9	1.9
Total Microsystins (ppb)	2018	ND	NA
Semivolatiles (ppb)	2018	ND	NA
Anatoxin-a (ppb)	2018	ND	NA
Cylindrospermopsin (ppb)	2018	ND	NA
Butylated hydroxyanisole (BHA) (ppb)	2018	ND	NA
O-toluidine (ppb)	2018	ND	NA
Quinoline (ppb)	2018	ND	NA
2-Propen-1-ol (allyl Alcohol) (ppb)	2018	ND	NA
1-Butanol (ppb)	2018	ND	NA
2-Methoxyethanol (ppb)	2018	ND	NA
MonoChloroAcetic Acid (ppb)	2018	ND	NA
MonoBromoAcetic Acid (ppb)	2018	0.4	<0.3 – 0.4
DiChloroAcetic Acid (ppb)	2018	16.9	10.4 – 16.9
TriChloroAcetic Acid (ppb)	2018	16.6	12.2 – 16.6
BromoChloroAcetic Acid (ppb)	2018	3.8	2.4 – 3.8
BromoDiChloroAcetic Acid (ppb)	2018	3.3	2.7 – 3.3
DiBromoAcetic Acid (ppb)	2018	0.9	0.4 – 0.9
ChloroDiBromoAcetic Acid (ppb)	2018	0.9	0.4 – 0.9
TriBromoAcetic Acid (ppb)	2018	ND	NA
HAA5 Group (ppb)	2018	32.4	26.2 – 32.4
HAA6Br Group (ppb)	2018	9.3	5.9 – 9.3
HAA9 Group (ppb)	2018	39.1	31.7 – 39.1

What does this mean?

We have learned through our monitoring and testing that some contaminants have been detected. As you can see by the tables above our system had no violations for exceeding their Maximum Contaminant Levels. We are proud that the Verona Water Department drinking water meets or exceeds all Federal and State safety requirements.

Lead in Home Plumbing

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 Verona Township Water Department** 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 at (800) 426-4791 or at <http://www.epa.gov/safewater/lead>.”



Special considerations regarding children, pregnant women, nursing mothers, and others:

Children may receive a slightly higher amount of a contaminant present in the water than do adults, on a body weight basis, because they may drink a greater amount of water per pound of body weight than do adults. For this reason, reproductive or developmental effects are used for calculating a drinking water standard if these effects occur at lower levels than other health effects of concern. If there is insufficient toxicity information for a chemical (for example, lack of data on reproductive or developmental effects), an extra uncertainty factor may be incorporated into the calculation of the drinking water standard, thus making the standard more stringent, to account for additional uncertainties regarding these effects. In the cases of lead and nitrate, effects on infants and children are the health endpoints upon which the standards are based.

Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites, which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

We at **The Verona Township Water Department** work hard to provide top quality water to every tap. We ask that all our customers help us protect our water sources, which are the heart of our community, our way of life and our children's future. Please call our office if you have questions.

DEFINITIONS

In the following table you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

90th %ile: The levels reported for lead and copper represent the 90th percentile of the total number of sites tested. The 90th percentile is equal to or greater than 90% of our lead and copper detections.

AL (Action Level): The concentration of a contaminate that, if exceeded, triggers treatment or other requirements that a water system must follow.

LRAA (Location Running Annual Average): The average of sample analytical results for samples taken at a particular monitoring location during previous four calendar quarters. Amount Detected values for TTHMs and HAAs are reported as the highest LRAAs.

MCL (Maximum Contaminant Level): The "Maximum Allowed" (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.

MCLG (Maximum Contaminant Level Goal): The "Goal" (MCLG) is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allows for a margin of safety.

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 contaminates.

MRDLG (Maximum Residual Disinfectant Level Goal): 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.

NA: Not Applicable

ND (Not Detected): Indicates that the substance was found by laboratory analysis.**NTU (Nephelometric Turbidity Units) :** Measurement of the clarity, or turbidity, of water. Turbidity in excess of 5 NTU is not noticeable to the average person.

pCi/L (picocuries per liter): A measure of radioactivity.

ppb (parts per billion): One part substance per billion parts water (or micrograms per liter).

ppm (parts per million): One part substance per million parts water (or milligrams per liter).

removal ratio: A ratio between the percentage of a substance actually removed to the percentage of the substance required to be removed.

RUL (Recommended Upper Limit): These standards are developed to protect aesthetic qualities of drinking water and are not health based.

TON (Threshold Odor Number): A measure of odor in water.

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

The following pages have been provided by The Passaic Valley Water Commission because Verona Water Department Water System purchases a portion of their water from them.

Source Water Assessment

NJDEP has prepared Source Water Assessment reports and summaries for all public water systems. The Source Water Assessment for the PVWC system (PWS ID 1605002) and the North Jersey District Water Supply Commission (NJDWSC) (PWS ID 1613001) can be found online at the NJDEP's source water assessment website- <http://www.nj.gov/dep/watersupply/swap/index.html> or by contacting NJDEP's Bureau of Safe Drinking Water at 609-292-5550 or watersupply@dep.nj.gov.

If a system is rated highly susceptible for a contamination category, it does not mean a customer is – or will be – consuming contaminated water. The rating reflects the potential for contamination of a source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any of those contaminants are detected at frequencies and concentrations above allowable levels. The source water assessments performed on the intakes for each system list the following susceptibility ratings for a variety of contaminants that may be present in source waters:

Intake Susceptibility Ratings								
Sources	Pathogens	Nutrients	Pesticides	Volatile Organic Compounds	Inorganic Contaminants	Radionuclides	Radon	Disinfection Byproduct Precursors
PVWC Surface Water (4 intakes)	(4) High	(4) High	(1) Medium (3) Low	(4) Medium	(4) High	(4) Low	(4) Low	(4) High
NJDWSC (5 intakes)	(5) High	(5) High	(2) Medium (3) Low	(5) Medium	(5) High	(5) Low	(5) Low	(5) High

2020 Water Quality Results- Table of Detected Contaminants						
Regulated Contaminant (units)	Goal (MCLG)	Highest Level Allowed (MCL)	PVWC Little Falls-WTP PWSID NJ1605002	NJDWSC Wanaque-WTP PWSID NJ1613001	Source of Substance	Violation?
Treated Drinking Water at the Treatment Plant						
Turbidity (NTU)	NA	Treatment Technique (TT) = 1 NTU	Highest Level Detected and Range (Low-High)		Soil run-off	No
	NA	TT= % of samples <0.3 NTU (min 95%)	0.266 (0.021 -0.266)	0.9 (0.01-0.9)		
			Lowest Monthly Percentage of Samples Meeting Turbidity Limits			
			100%	99.1%		
<i>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.</i>						
Total Organic Carbon (%)	NA	TT=% removal or Removal Ratio	% Removal 55-82 (25 - 50 required)	Removal Ratio (0.8-1.1)	Naturally present in the environment.	No
Barium (ppm)	2	2	0.026 (0.016-0.026)	0.0078	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.	No
Bromate (ppm)	NA	10	6.98 (<5.0-6.98)		By-product of drinking water disinfection	No
Fluoride (ppm)	4	4	0.050 (ND-0.05)	ND	Erosion of natural deposits.	No
Nickel (ppb)	NA	NA	3.40 (1.96-3.40)	ND	Erosion of natural deposits.	No
Nitrate (ppm)	10	10	2.14 (0.59-2.14)	0.154	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.	No
Radium (pCi/L)	0	5	ND (2014 Data)	ND (2014 Data)	Erosion of Natural Deposits	No

NA - not applicable
ND - not detected

Cryptosporidium

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes *Cryptosporidium*, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organisms are viable or capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps.

Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may spread through means other than drinking water.

Source Water Pathogen Monitoring		
Contaminant	Results for PVWC Plant Intake	Typical Source
<i>Cryptosporidium</i> (Oocysts/L)	0.0 - 0.09	Microbial pathogens found in surface waters throughout the United States.
<i>Giardia</i> (Cysts/L)	0.0 - 0.83	

PVWC regularly samples source water for *Cryptosporidium* and *Giardia*. The data collected in 2020 is presented in the table above.

2020 Water Quality Results- Table of Detected Secondary Parameters					
Contaminant	NJ Recommended Upper Limit (RUL)	PVWC Little Falls-WTP PWSID NJ1605002		NJWSC Wanaque-WTP PWSID NJ1613001	
		Range of Results	RUL Achieved?	Result	RUL Achieved?
Treated Drinking Water at the Entry Point to the Distribution System					
Alkylbenzene Sulfonate [ABS]/Linear Alkylbenzene Sulfonate [LAS] (ppb)	500	90-120	Yes	ND	Yes
Alkalinity (ppm)	NA	47-79	NA	39	NA
Aluminum (ppb)	200	12.8-32.4	Yes	77	Yes
Chloride (ppm)	250	92.2-138.1	Yes	47.2	Yes
Color (color units)	10	<5	Yes	2	Yes
Copper (ppm)	<1	ND	Yes	0.012	Yes
Hardness, CaCO ₃ (ppm)	250	88-178	Yes	53	Yes
Iron (ppb)	300	<100	Yes	104	Yes
Manganese (ppb)	50	11.5-25.5	Yes	5.3	Yes
Odor (Threshold Odor Number)	3	2-100	No	<1	Yes
pH	6.5 to 8.5 (optimum range)	7.6-8.4	Yes	8.05	Yes
Sodium (ppm)	50	46.1-94.8	No*	23.4	Yes
Sulfate (ppm)	250	44.7-87.8	Yes	7.54	Yes
Total Dissolved Solids (ppm)	500	301-510	No	104	Yes
Zinc (ppb)	5000	1.9-3.7	Yes	13	Yes

**PVWC's finished water was above New Jersey's Recommended Upper Limit (RUL). Possible sources of sodium include natural soil runoff, roadway salt runoff, upstream wastewater treatment plants, and a contribution coming from chemicals used in the water treatment process. For healthy individuals, the sodium intake from water is not important, because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended upper limit may be a concern to individuals on a sodium restricted diet.

Testing For Emerging Contaminants		
Contaminant	PVWC Little Falls-WTP PWSID NJ1605002	<i>Test results presented in this table were collected in 2020 to monitor the occurrence of emerging contaminants. There are currently no EPA drinking water standards for these contaminants.</i>
	Results	
Treated Drinking Water at the Entry Point to the Distribution System		
Chlorate (ppb)	121.2-344.9	
1,4-Dioxane (ppb)	ND-0.243	
Perfluorobutanesulfonic acid [PFBS] (ppt)	<2.0-3.1	PVWC monitors for the presence of perfluorochemicals in source water and finished drinking water monthly.
Perfluoroheptanoic acid [PFHp/A] (ppt)	<2.0-3.1	
Perfluorohexanesulfonic acid [PFHxS] (ppt)	<2.0-2.1	The NJDEP has formally established MCLs for Perfluorooctanoic acid (PFOA) and Perfluorooctanesulfonic acid (PFOS) of 14 ppt and 13 ppt respectively.
Perfluorohexanoic acid [PFHxA] (ppt)	3.1-8.6	
Perfluorooctanesulfonic acid [PFOS] (ppt)	2.9-4.4	These rules were effective January 1, 2021. The results observed in 2021 were below the NJDEP newly established MCL.
Perfluorooctanoic acid [PFOA] (ppt)	4.8-7.6	

ADDITIONAL INFORMATIONAL RESOURCES

EPA Drinking Water website: www.epa.gov/safewater
 NJDEP Water Supply website: www.nj.gov/dep/watersupply
 American Water Works Association (AWWA) website: www.awwa.org

EPA Safe Drinking Water Hotline: 800-426-4791
 NJDEP Bureau of Safe Drinking Water: 609-292-5550
 AWWA New Jersey Section website: www.njawwa.org