



2018 Annual Water Quality Report

Hunterdon County
Middlesex County
Somerset County

Mercer County
Morris County
Union County

Raritan System
PWS ID: NJ2004002



NEW JERSEY
AMERICAN WATER

A Message from the New Jersey American Water President

To Our Valued Customers:

New Jersey American Water is proud to be your local water service provider, and I am pleased to share some very good news about the quality of your drinking water. As you read through our Annual Water Quality Report, you will see that we continue to supply water that meets or surpasses all state and federal water quality standards. Additionally, the price you pay for this high-quality water service remains a great value as one of the lowest household utility bills.

New Jersey American Water has the expertise of more than 800 experienced professionals, the right technologies in use, and a demonstrated commitment to replacing and upgrading our infrastructure so that you can be assured that your drinking water is of the highest standards.

Our team of experts continuously monitors, maintains and upgrades our facilities to ensure that they operate efficiently and meet all regulatory standards. This requires investing millions of dollars each year in our infrastructure, including treatment plants, tanks, pump stations, pipes, fire hydrants and metering equipment. We do this because we care about our customers as much as we care about water. Statewide, we invested more than \$330 million in 2018 alone to improve our water treatment and pipeline systems.

We have an exceptional track record when it comes to water quality and drinking water regulatory compliance. In fact, we take water quality so seriously that five of our surface water treatment plants have been nationally recognized with Directors Awards from the U.S. EPA's Partnership for Safe Water program for surpassing federal and state drinking water standards.

Please take the time to review this report. It provides details about the source and quality of your drinking water, using the data from water quality testing conducted for your local system between January and December 2018. If you have any questions, I encourage you to visit the Water Quality page of our website at www.newjerseyamwater.com, or call our Customer Service Center at 1-800-272-1325.

Sincerely,

Cheryl Norton
President, New Jersey American Water

Share This Report

Landlords, businesses, schools, hospitals and other groups are encouraged to share this important water quality information with water users at their location who are not customers. Additional copies of this report are available by contacting customer service at 1- 800-272-1325. This report contains important information about your drinking water. If you do not understand it, please have someone translate it for you.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

આ અહેવાલ માં તમારા પીવાના પાણી વિષે
અગત્ય ની જાણકારી આપવા માં આવી છે.
અને એનું અનુવાદ કરી અમુકા જેને સમજવા પડતી
ભાષા તેની આર્થે આત ફરી

本报告与您的饮用水有关。
如果您不了解其内容，应请别人为您翻译解说。

이 보고서에는 귀하께서 사용하고 계시는 식수에 관한 정보가 들어있습니다.
만약에 이해를 못하시면 누군가에게 번역을 의뢰하십시오.

Our Commitment to Quality

Once again, we proudly present our annual water quality report, which details the results of water quality testing completed from January to December 2018. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Included in this report are details about where your water comes from, what it contains, and how our water quality results compare to federal and state standards.

We are pleased to tell you that we had no Safe Drinking Water Act violations again in 2018. We are committed to delivering the best quality drinking water. To that end, we remain vigilant in meeting the challenges of source water protection, water conservation, and community education while continuing to serve the needs of all our water users.

We want you to be informed about your drinking water. For more information about this report, or for any questions relating to your drinking water, please contact our 24-hour Customer Call Center toll-free at 1-800-272-1325.

About New Jersey American Water

New Jersey American Water, a subsidiary of American Water (NYSE: AWK), is the largest investor-owned water utility in the state, providing high quality and reliable water and/or wastewater services to approximately 2.7 million people. For more information, visit amwater.com and follow American Water on [Twitter](#), [Facebook](#) and [LinkedIn](#).

About American Water

With a history dating back to 1886, American Water is the largest and most geographically diverse U.S. publicly traded water and wastewater utility company. The company employs more than 6,900 dedicated professionals who provide regulated and market-based drinking water, wastewater, and other related services to an estimated 15 million people in 46 states and Ontario, Canada. American Water provides safe, clean, affordable, and reliable water services to our customers to make sure we keep their lives flowing. For more information, visit www.amwater.com.

How to Contact Us

Thank you... for allowing us to continue to provide your family with quality drinking water this year. We ask that all our customers protect our water sources. Please call our Customer Call Center toll-free at 1-800-272-1325 if you have questions.

New Jersey American Water

1 Water Street

Camden, NJ 08102

www.amwater.com/njaw

Water Information Sources

- **New Jersey Department of Environmental Protection, Bureau of Safe Drinking Water:** (609) 292-5550 • www.nj.gov/dep
- **New Jersey Board of Public Utilities:** 44 S Clinton Avenue, Trenton, NJ 08625
1-800-624-0241 • www.nj.gov/bpu
- **US Environmental Protection Agency:** www.epa.gov/safewater
- **Safe Drinking Water Hotline:** 1-800-426-4791
- **American Water Works Association:** www.awwa.org
- **Centers for Disease Control and Prevention:** www.cdc.gov



Partnership for Safe Water

This year our surface water plant in Bridgewater (Somerset County) is awarded the prestigious “Fifteen-Year Director’s Award” under the Partnership for Safe Water program administered by the U.S. EPA, New Jersey Department of Environmental Protection, and other water related organizations. The award honors water utilities for achieving operational excellence, by voluntarily optimizing their treatment facility operations and adopting more stringent performance goals than those required by federal and state drinking water standards. We are proud to report that we continue to maintain those quality standards.

Public Participation

How You Can Get Involved

Customers can participate in decisions that may affect the quality of water by:

- Reading the information provided in bill inserts and special mailings
- Contacting the company directly with questions or to discuss issues
- Responding to company requests for participation in focus groups and roundtables
- Attending open houses conducted by the company
- Responding to survey requests

Where Your Water Comes From

Your water comes from a public community water system consisting of 98 wells, 7 surface water intakes and 1 purchased surface water source. Water is purchase from Newark Water Co.

Source water comes from Millstone River, Raritan River, Delaware & Raritan Canal and the following aquifers: Brunswick, Stockton, Basalt, Passaic and Glacial Drift.

Protecting Your Water Source

What is S.W.A.P.?

SWAP (Source Water Assessment Program) is a program of the New Jersey Department of Environmental Protection (NJDEP) to study existing and potential threats to the quality of public drinking water sources throughout the state. Sources are rated depending upon their contaminant susceptibility.

Susceptibility Ratings for New Jersey American Water

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 ratings of purchased water, refer to the specific water system’s source water assessment report

Contaminant Categories

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 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, NJDEP may customize (change existing) monitoring schedules based on the susceptibility ratings.

Source water protection is a long-term dedication to clean and safe drinking water. It is more cost effective to prevent contamination than to address contamination after the fact. Every member of the community has an important role in source water protection. NJDEP recommends controlling activities and development around drinking water sources whether it is through land acquisition, conservation easements or hazardous waste collection programs. We will continue to keep you informed of SWAP's progress and developments.

Source Water Assessment Reports and Summaries are available for public water systems at <http://www.nj.gov/dep/swap> or by contacting the NJDEP's Bureau of Safe Drinking Water at (609) 292-5550.

Susceptibility Chart Definitions

- **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, those 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 1-800-648-0394.
- **Disinfection By-product Precursors:** A common source is naturally occurring organic matter in surface water. Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (for example leaves) present in surface water.

Raritan System	Sources	Pathogens			Nutrients			Pesticides			Volatile Organic Compounds			Inorganics			Radionuclides			Radon			Disinfection By-Product 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
	Wells - 98	4	65	29	42	56			24	74	88		10	16	66	16	39	59		92	6		25	73	
	GUDI - 0																								
	Surface Water Intakes - 7	7			7				7				7						7			7			

What's in the Source Water Before We Treat It?

In general, the sources of drinking water (both tap 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 can pick up substances resulting from the presence of animals or from human activities.

Substances that may be present in source water include:

Microbiological Contaminants: Such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.

Inorganic Contaminants: Such as salts and metals, which can be naturally occurring or may 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 by-products of industrial processes and petroleum production, and may come from gas stations, urban storm water runoff and septic systems.

Radioactive Contaminants: Which can be naturally occurring or may be the result of oil and gas production and mining activities.

For more information about contaminants and potential health effects, call the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

What is Radon?

Radon is a radioactive gas that occurs naturally in some groundwater. It may pose a health risk when the gas is released from water into air, as occurs while showering, washing dishes and performing other household activities. Radon can move up through the ground and into a home through cracks in the foundation. Compared to radon entering the home through soil, radon entering through tap water is, in most cases, a small source of radon in indoor air. Inhalation of radon gas has been linked to lung cancer; however, the effects of radon ingested in drinking water are not yet clear. If you are concerned about radon in your home, tests are available to determine the total exposure level. The EPA is developing regulations to reduce radon in drinking water. Radon in the air is inexpensive to test and easy to correct. For additional information, call the EPA's Radon Hotline at 1-800-SOS-RADON.

Special Informational Statement for 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. New Jersey American Water 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, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

Do I Need to Take Special Precautions?

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. U.S. 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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

How Do I Read the Table of Detected Contaminants?

Starting with the Contaminant, read across from left to right. A "Yes" under Compliance Achieved means the amount of the substance met government requirements. The column marked **MCLG, Maximum Contaminant Level Goal**, 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. The shaded column marked **MCL, Maximum Contaminant Level**, 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. The shaded column marked Range shows the highest and lowest test results for the year. The column marked Highest Level Detected shows the highest test results during the year. Major Sources in Drinking Water shows where this substance usually originates. Compare the Range values with the MCL column. To be in compliance, the Maximum Detected Level must be lower than the MCL standard.

Footnotes and the definitions below will help you interpret the data presented in the Table of Detected Contaminants.

90th Percentile Value: Of the samples taken, 90 percent of the values of the results were below the level indicated in the table.

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

Disinfection By-product: Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens reacts with dissolved organic material (for example leaves) present in surface water.

LRAA (Locational Running Annual Average): The average is calculated for each monitoring location.

MRDL (Maximum Residual Disinfectant Level): 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.

MRDLG (Maximum Residual Disinfectant Level Goal): The level of 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

Nephelometric Turbidity Units (NTU): Measurement of the clarity, or turbidity, of the water.

None Detected (ND): Laboratory analysis indicates that the constituent is not present.

Parts per Billion (ppb): Corresponds to one part substance in one billion parts of water.

Parts per Million (ppm): Corresponds to one part substance in one million parts of water.

Picocuries per Liter (pCi/L): A measure of the radioactivity in water.

RUL: Recommended Upper Limit.

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

Water Quality Facts

The data presented in the Table of Detected Contaminants is the same data collected to comply with U.S. Environmental Protection Agency and New Jersey state monitoring and testing requirements. To assure high quality water, individual water samples are taken each year for chemical, physical and microbiological tests. Tests are completed on water taken at the source, from the distribution system after treatment and, for lead and copper monitoring from the customer's tap. Testing can pinpoint a potential problem so that preventive action may be taken.

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organic chemicals and synthetic organic chemicals. Our system has received monitoring waiver for synthetic organic chemicals.

Vulnerable Populations Statement

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 pathogens are available from the Safe Drinking Water Hotline (1-800-426-4791).

Water Quality Results – Table of Detected Contaminants – 2018

Contaminant	Unit	MCL	MCLG	Highest Level Detected	Range	Compliance Achieved	Major Sources in Drinking Water
Turbidity							
Turbidity ¹	NTU	TT = 1 NTU	NA	0.23	0.01 - 0.23	Yes	Soil runoff
		TT = percent of samples < 0.3 NTU	NA	100%	NA	Yes	
Treatment By-Products Precursor Removal							
Total Organic Carbon (TOC) ²	%	TT ≥ 25% Removal	NA	83%	29% to 83%	Yes	Naturally present in the environment
Ratio of actual / Required TOC removal	Ratio	TT: Running Annual Average ≥ 1.0	NA	1.7	1.5 - 1.7	Yes	Naturally present in the environment
Inorganic Contaminants							
Fluoride ³	ppm	2	2	1	ND - 1	Yes	Erosion of natural deposits; Water additive that promotes strong teeth
Nitrate ⁴	ppm	10	10	4.4	0.6 - 4.4	Yes	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Arsenic	ppb	5	5	ND	N/A	Yes	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Barium	ppm	2	2	ND	N/A	Yes	Discharge or drilling wastes; Discharge of metal refineries; Erosion of natural deposits
Disinfectants							
Chloramines ⁵	ppm	MRDL = 4	MRDLG = 4	1.1	0.9 - 1.1	Yes	Water additive used to control microbes

Regulated Substances

Disinfectant By-Products - Stage 2

Contaminant	Unit	MCL	MCLG	LRAA ⁶	Range	Compliance Achieved	Major Sources in Drinking Water
Total Trihalomethanes (TTHM)							
3	ppb	80	NA	19	10-37	Yes	By-product of drinking water disinfection
5	ppb	80	NA	53	25-92	Yes	By-product of drinking water disinfection
8	ppb	80	NA	52	22-80	Yes	By-product of drinking water disinfection
12	ppb	80	NA	30	14-56	Yes	By-product of drinking water disinfection
26	ppb	80	NA	51	22-91	Yes	By-product of drinking water disinfection
27	ppb	80	NA	53	24-89	Yes	By-product of drinking water disinfection
35	ppb	80	NA	56	24-98	Yes	By-product of drinking water disinfection
36	ppb	80	NA	49	23-83	Yes	By-product of drinking water disinfection
SSS-15	ppb	80	NA	32	16-57	Yes	By-product of drinking water disinfection
SSS-24	ppb	80	NA	35	16-67	Yes	By-product of drinking water disinfection
SSS-6	ppb	80	NA	50	27-89	Yes	By-product of drinking water disinfection
SSS-8	ppb	80	NA	18	10-27	Yes	By-product of drinking water disinfection
DBP2-1	ppb	80	NA	67	36-124	Yes	By-product of drinking water disinfection
DBP2-2	ppb	80	NA	65	34-113	Yes	By-product of drinking water disinfection
Total Haloacetic Acids (THAA5)							
3	ppb	60	NA	16	7-28	Yes	By-product of drinking water disinfection
5	ppb	60	NA	26	9-67	Yes	By-product of drinking water disinfection
8	ppb	60	NA	30	18-60	Yes	By-product of drinking water disinfection
12	ppb	60	NA	19	12-26	Yes	By-product of drinking water disinfection
26	ppb	60	NA	36	17-74	Yes	By-product of drinking water disinfection
27	ppb	60	NA	25	8-62	Yes	By-product of drinking water disinfection
35	ppb	60	NA	34	14-76	Yes	By-product of drinking water disinfection
36	ppb	60	NA	33	12-72	Yes	By-product of drinking water disinfection
SSS-15	ppb	60	NA	19	11-29	Yes	By-product of drinking water disinfection
SSS-24	ppb	60	NA	7	2-12	Yes	By-product of drinking water disinfection
SSS-6	ppb	60	NA	29	10-74	Yes	By-product of drinking water disinfection
SSS-8	ppb	60	NA	10	6-12	Yes	By-product of drinking water disinfection
DBP2-1	ppb	60	NA	23	6-39	Yes	By-product of drinking water disinfection
DBP2-2	ppb	60	NA	36	10-83	Yes	By-product of drinking water disinfection

Tap water samples were collected for lead and copper analysis from homes within the service area Round 3 – June 1, 2018 to September 30, 2018

Lead and Copper	Unit	Action Level ⁷	MCLG	Number of Samples	Amount Detected (90th Percentile) ⁸	Compliance Achieved	Number of Samples Above Action Level	Typical Source
Lead	ppb	15	0	53	3	YES	2	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	ppm	1.3	1.3	53	0.5	YES	0	Corrosion of household plumbing systems; Erosion of natural deposits

¹ 100% of the turbidity readings were below the treatment technique requirement of 0.3 NTU. 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.

² Data represents the highest percentage removal of Total Organic Carbon.

³ Fluoride is added to the water at therapeutic levels (0.6 – 1.0 ppm) in certain areas. Please call us for more information about fluoride levels in your area.

⁴ 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.

⁵ Highest level detected is the maximum quarterly average. Range indicates the monthly averages detected.

⁶ Compliance is based on the Locational Running Annual Average (LRAA). Results in the table show the average of the 4 quarters of 2018.

⁷ Action Level: The concentration of a contaminant which, if exceeded, triggers a treatment technique or other requirement, which a water system must follow.

⁸ Ninety percent of the samples tested below the indicated value.

Secondary Contaminants

Contaminant	Unit	Recommended Upper Limit	Range Detected	Highest Detected Level	Typical Source
Aluminum	ppm	0.2	ND - 0.02	0.02	Erosion of natural deposits
Iron	Ppm	0.3	ND - 0.42	0.42	Erosion of natural deposits
Manganese	ppm	0.05	ND - 0.02	0.02	Erosion of natural deposits
Sodium ¹	ppm	50	33 - 96	96	Erosion of natural deposits

¹For 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 of concern to individuals on a sodium restricted diet

Unregulated Contaminant Monitoring Rule

New Jersey American Water participated in the Unregulated Contaminant Monitoring Rule. Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether regulation is warranted. For testing conducted in the Raritan System, the following substances were found.

Unregulated Contaminants Monitoring (UCMR3) (2015)				
Parameter	Units	Highest Level Detected	Range Detected	Typical Source
Hexavalent Chromium (Chromium-6)	ppb	1.05	ND - 1.1	Naturally-occurring element; used in making steel and other alloys; chromium -3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation
Molybdenum	ppb	18.2	ND - 18.2	Naturally-occurring elemental found in ores and present in plants, animals and bacteria; commonly used form molybdenum trioxide used as a chemical reagent
Strontium	ppb	2453	79 - 2453	Naturally-occurring element; historically commercial use of strontium has been in the faceplate glass of cathode-ray tube televisions to block x-ray emissions
1,4-Dioxane (2018)	ppb	1.11	ND - 1.11	Cyclic aliphatic ether; used as a solvent or solvent stabilizer in manufacture and processing of paper, cotton, textile products, automotive coolant, cosmetics and shampoos
Bromochloromethane	ppb	0.12	ND - 0.12	Used as a fire-extinguishing fluid, an explosive suppressant, and as a solvent in the manufacturing of pesticides
Chlorate	ppb	310	ND - 310	Agricultural defoliant or desiccant; disinfection byproduct; and used in production of chlorine dioxide
Chromium	ppb	1.3	ND - 1.3	See chromium-6 for use or source information; though the amount measured when analyzing for "total chromium" is the sum of chromium in all of its valence states, the MCL for EPA's current total chromium regulation was determined based upon the health effects of chromium-6
Vanadium	ppb	15	ND - 15	Naturally-occurring elemental metal; used as vanadium pentoxide which is a chemical intermediate and a catalyst

Perfluorinated Compounds				
Parameter	Units	Highest Level Detected	Range Detected	Typical Source
Perfluorooctanoic Acid (PFOA)	ppt	54	ND - 54	Perfluorinated aliphatic carboxylic acid; used for its emulsifier and surfactant properties in or as fluoropolymers (such as Teflon), fire - fighting foams, cleaners, cosmetics, greases and lubricants, paints, polishes, adhesives and photographic films
Perfluorohexanesulfonic Acid (PFHxS)	ppt	60	50 - 60	Manmade chemical; used in products to make them stain, grease, heat and water resistant
Perfluoroheptanoic Acid (PFHpA)	ppt	110	ND - 110	Manmade chemical; used in products to make them stain, grease, heat and water resistant
Perfluorooctanesulfonic Acid (PFOS)	ppt	43	ND - 43	Surfactant or emulsifier; used in fire-fighting foam, circuit board etching acids, alkaline cleaners, floor polish, and as a pesticide active ingredient for insect bait traps; U.S. manufacture of PFOS phased out in 2002; however, PFOS still generated incidentally
Perfluorobutanesulfonic Acid (PFBS)	ppt	ND	ND	PFBS has been identified in the environment and consumer products, including surface water, wastewater, drinking water, dust, carpeting and carpet cleaners, floor wax, and food packaging.
Perfluorononanoic acid (PFNA)	ppt	ND	ND	Perfluorinated aliphatic carboxylic acid; used for its emulsifier and surfactant properties in or as fluoropolymers (such as Teflon), fire - fighting foams, cleaners, cosmetics, greases and lubricants, paints, polishes, adhesives and photographic films

Cryptosporidium

Cryptosporidium is a protozoan found in surface water throughout the U.S. Although filtration removes *Cryptosporidium*, the most commonly used filtration methods cannot guarantee 100 percent removal. 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, people with severely weakened immune systems have a risk of developing a life threatening illness. We encourage such people to consult their doctors regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease. It can also be spread through means other than drinking water.


The U.S. EPA issued a rule in January 2006 that requires systems with higher *Cryptosporidium* levels in their source water to provide additional treatment. To comply with this rule, New Jersey American Water once again began conducting 24 consecutive months of monitoring for *Cryptosporidium* in our raw water sources in 2015. We detected the organism in the raw source water during this testing. **These samples were collected from the source before the water was processed through our treatment plant.** Monitoring was completed in 2017. In accordance with the requirements of EPA's Long Term 2 Enhanced Surface Water Treatment Rule, an additional treatment upgrade is in process at the Raritan- Millstone Plant for removal/inactivation of *Cryptosporidium*. For additional information regarding cryptosporidiosis and how it may impact those with weakened immune systems, please contact your personal health care provider. The data collected is presented in the Source Water Monitoring table below.

Contaminant	RM Plant Source	CR Plant Source	Typical Source
Cryptosporidium, Oocysts/L	ND - 0.9	ND - 0.455	Microbial pathogens found in surface waters throughout the United States.
Giardia, Cysts/L	ND - 0.622	ND - 0.727	



**There's a lot more
to your water bill
than just water.**

When you turn on the tap, it's easy to see what your water bill buys. What's not as easy to see is what it takes to bring that water to your home. The miles of pipeline hidden below the ground. The facilities that draw water from the source. The plant where it's treated and tested. The scientists, engineers, and maintenance crews working around the clock to make sure that water is always there when you need it. Your water payments are helping to build a better tomorrow by supporting needed improvements that will keep water flowing for all of us—today and well into the future. All for less than a penny a gallon.

 **AT LEAST 1000
A PENNY
PER GALLON
WORTH OF A
GREAT VALUE.**™ **WE CARE ABOUT WATER. IT'S WHAT WE DO.
FIND OUT WHY YOU SHOULD, TOO, at amwater.com.**

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NJDEP Water Conservation Message...Because Remember, Every Drop Counts

6 SIMPLE STEPS TO SAVE WATER...BECAUSE REMEMBER, EVERY DROP COUNTS

Due to much lower than normal rainfall, New Jersey's water supply is dwindling. You can do your part to help avoid a drought emergency by taking these six simple steps to save water.



Don't let faucets run when brushing your teeth, shaving, or washing the dishes. Just turning off the water while you brush can save 200 gallons a month.

1



Run washing machines and dishwashers only when they are full, or select the properly sized wash cycle for the current laundry load.

2



Install water-saving showerheads and faucet aerators in the bathroom and kitchen (available at most home improvement stores and some supermarkets.)

3



Fix any leaking faucets –one drop every 2 seconds from a leaky faucet wastes 2 gallons of water every day – that's water – and money – down the drain.

4



Don't wash your car at home – a car wash uses much less water and recycles it, too.

5



With the end of the growing season, be sure to turn off automatic lawn and garden sprinkler systems.

6



EVERY
DROP
COUNTS

For more detailed information on how you can conserve water in and outside your home, visit njdrought.org.

Remember...every drop counts.