



NEW JERSEY WATER SUPPLY AUTHORITY

MANASQUAN RESERVOIR WATER SUPPLY SYSTEM

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2025 WATER QUALITY REPORT

MANASQUAN WATER SUPPLY SYSTEM

PWSID 1352005

The New Jersey Water Supply Authority (NJWSA) is pleased to provide you with important information about your drinking water in this 2025 Consumer Confidence Report. The report summarizes the quality of water provided in 2025; including details about your water and how it compares to standards set by regulatory agencies. Although the report lists only those regulated substances that were detected in your water, we test for more than what is reported. This report is only a summary of our testing in 2025.

Landlords must distribute this information to every tenant as soon as practicable, but no later than three business days after receipt. Delivery must be done by hand, mail, or email, and by posting the information in a prominent location at the entrance of each rental premises, pursuant to section 3 of P.L. 2021, c. 82 (C.58:12A-12.4 et seq.).

The New Jersey Water Supply Authority serves the communities of Brielle, Sea Girt, Spring Lake, Spring Lake Heights and Wall Township. The Manasquan Water Treatment Plant, located on Hospital Road in the Allenwood section of Wall Township, is owned by the Southeast Monmouth Municipal Utilities Authority and is operated by the New Jersey Water Supply Authority. The Manasquan Water Treatment Plant provides an average of 60% of the water used by the residents of the above customer communities. Raw water for this facility is sourced from the Manasquan River in Wall Township and the Manasquan Reservoir in Howell Township. The Manasquan Water Supply System also provides raw water to New Jersey American Water for treatment and distribution to other communities in Monmouth and Ocean Counties.

The Manasquan Water Treatment Plant monitors its finished water for all contaminants required under Federal and NJ state primary and secondary drinking water standards. The contaminants, which have been detected in monitoring from January 1st, 2025 through December 31st, 2025, are listed in the **TABLE OF DETECTED CONTAMINANTS** below.

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 EPA's Safe Drinking Water Hotline at 1-800-426-4791. For the complete monitoring schedule or for further information about this report, you can contact Operations Supervisor Edward Otreba or System Director Anthony Colasurdo at the Manasquan Water Supply System. Telephone - 1-732-974-8383; Fax - 1-732-974-8607 or E-mail – eotreba@njwsa.org or acolasurdo@njwsa.org.

This report is available at <https://www.njwsa.org/manasquan.html>

The New Jersey Department of Environmental Protection issues an individual Public Water

System Identification Number (PWSID) to each water supply facility. The PWSID for the NJWSA/Manasquan Water Treatment Plant is 1352005. You can use this PWSID number to assist you in obtaining local drinking water quality information on the internet at the NJDEP Bureau of Safe Drinking Water website at <https://waterviewer.nj.gov/>.

Water Quality Results – Table of Detected Contaminants

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).

TABLE OF DETECTED CONTAMINANTS								
CONTAMINANT	YEAR SAMPLED	HIGHEST LEVEL DETECTED	RANGE DETECTED	UNIT OF MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION	VIOLATION
SYNTHETIC ORGANIC CONTAMINANTS								
DI(2-ETHYLHEXYL) PHTHALATE	2025	0.35	ND-0.35	ug/l	0	6	DISCHARGE FROM RUBBER AND CHEMICAL FACTORIES	No
DI(2-ETHYLHEXYL) ADIPATE	2025	0.08	ND-0.08	ug/l	400	400	DISCHARGE FROM RUBBER AND CHEMICAL FACTORIES	No
HEPTACHLOR	2025	0.01	ND-0.01	ug/l	0	0.4	RESIDUE OF BANNED PESTICIDE	No
ALACHLOR	2025	0.01	ND-0.01	ug/l	0	2	RUNOFF FROM HERBIDE USED ON ROW CROPS	No
INORGANIC CONTAMINANTS								
BARIUM	2025	0.0458		mg/l	2	2	EROSION OF NATURAL DEPOSITS	No
FLUORIDE	2025	0.16		mg/l	4	4		No
NICKEL	2025	6.7		ug/l				No
NITRATE	2025	0.259		mg/l	10	10	RUNOFF FROM FERTILIZER USE; INDUSTRIAL AND DOMESTIC WASTE WATER DISCHARGES; EROSION OF NATURAL DEPOSITS	No
NITRITE	2025	0.075		mg/l	1	1		No

TABLE OF DETECTED CONTAMINANTS

CONTAMINANT	YEAR SAMPLED	HIGHEST LEVEL DETECTED	RANGE DETECTED	UNIT OF MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION	VIOLATION
COPPER Annual (Sampled at sink and fixtures at water treatment facility)	2025	166.39 90th Percentile	84.77-192.44 No sample exceeded the Action Level	ug/l	<1,300	1,300 is the Action Level where corrosion control techniques must be employed	CORROSION OF MATERIALS AND COMPONENTS ASSOCIATED WITH HOME PLUMBING.	No
LEAD Annual (Sampled at sink and fixtures at water treatment facility)	2025	0.32 90th Percentile	ND-0.63 No sample exceeded the Action Level	ug/l	<10	10 is the Action Level where corrosion control techniques must be employed	CORROSION OF MATERIALS AND COMPONENTS ASSOCIATED WITH HOME PLUMBING.	No
PER- AND POLYFLUOROALKYL SUBSTANCE								
PFOA (Perfluorooctanoic acid)	2025	2.62	ND-2.62	ng/l	0	14	DISCHARGE FROM CHEMICAL, AND MANUFACTURING FACTORIES, RELEASE OF AQUEOUS FILM FORMING FOAM OR WATER RESISTANT PRODUCTS	No
DISINFECTANT/DISINFECTANT BY-PRODUCTS (BASED ON SAMPLES OF WATER LEAVING THE PLANT AND IN THE DISTRIBUTION SYSTEM)								
CHLORINE Leaving the Water Treatment Plant	2025	Highest Annual Average Recorded 1.47	Range 0.96-2.11	mg/l	4.0 MRDL GOAL	4.0 MRDL	WATER ADDITIVE USED TO CONTROL MICROBES	No
TTHM (TOTAL TRIHALOMETHANES) FROM THE ENTRANCE TO THE DISTRIBUTION SYSTEM	2025	Total of 4 compounds in one sample	0.9-11.6	ppb	N/A	ANNUAL SITE SAMPLING 80	BY-PRODUCTS OF DRINKING WATER CHLORINATION	No
		29.7						
HAA5 (HALOACETIC ACIDS) FROM THE ENTRANCE TO THE DISTRIBUTION SYSTEM	2025	Total of 5 Acids in one sample 14.11	ND – 9.01	ppb	N/A	ANNUAL SITE SAMPLING 60		No

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CONTAMINANT	YEAR SAMPLED	HIGHEST LEVEL DETECTED	RANGE DETECTED	UNIT OF MEASUREMENT	MCLG	MCL	LIKELY SOURCE OF CONTAMINATION	VIOLATION
BROMATE	2025	<5.0	<5.0 Twelve of twelve samples were <5.0	ug/l	0	10 RUNNING ANNUAL AVERAGE OF ONE MONTHLY SAMPLE		No
SUSPENDED AND DISSOLVED MATTER REMOVAL								
TURBIDITY of FILTERED WATER	2025	MAXIMUM 0.35 Goal is for > 95% of samples to be <0.3NTU	.02-0.35 99.7% of samples were <0.3NTU	NTU	0.05	> 1 NTU TT = 95 % OF MONTHLY SAMPLES < 0.3 NTU	SOIL AND ORGANIC MATTER RUNOFF	No

Note: 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.

SECONDARY CONTAMINANTS / WATER QUALITY PARAMETERS					
CONTAMINANT OR PARAMETER	YEAR SAMPLED	AVERAGE LEVEL DETECTED	UNIT OF MEASUREMENT	RUL	LIKELY SOURCE OF CONTAMINATION
ZINC	2025	0.453	mg/L	5.0	BYPRODUCT OF CORROSION INHIBITOR ADDITIVE
MANGANESE	2025	0.0329	mg/l	0.05	EROSION OF NATURAL DEPOSITS
FLUORIDE	2025	0.16	mg/L	2	EROSION OF NATURAL DEPOSITS
SODIUM	2025	33.1	mg/L	50	EROSION OF NATURAL DEPOSITS; ROADWAY ICE AND SNOW CONTROL
CHLORIDE	2025	51	mg/L	250	EROSION OF NATURAL DEPOSITS; ROADWAY ICE AND SNOW CONTROL

Violation Information for 2025:

The Safe Drinking Water Act requires public water systems to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. Please see the following violation(s) information below for details on any non-compliance events that occurred in 2025.

Violation #2473 Lead & Copper Rule Water Quality Parameter Monitoring and Reporting

The New Jersey Water Supply Authority measures water quality parameters to ensure public safety, comply with state and federal regulations and verify the effectiveness of corrosion control

techniques to reduce lead and copper in your drinking water. Violation #2473 is the result of a late submittal of water quality parameters results to the NJDEP. The NJWSA has implemented new procedures to ensure on time submission of water quality parameter data to the NJDEP.

Special Health Concerns

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. 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.

Lead in Drinking Water

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 Manasquan Water Treatment Plant is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact your local community water system. Information on lead drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

Please note that the New Jersey Water Supply Authority is not responsible for lead testing within the customer communities. Consult the Consumer Confidence Report of your community water system for lead results and to find out how to get your water tested for lead. Testing is essential because you cannot see, taste or smell lead in drinking water.

Lead Service Line Inventory

In July 2025, an updated Lead Service Line Inventory (LSLI) was submitted to the NJDEP. A copy of the Lead Service Line Inventory is available at <https://www.njwsa.org/manasquan.html>. Please note that the New Jersey Water Supply Authority is not responsible for maintaining the Lead Service Line Inventory within the customer communities. Consult the Lead Service Line Inventory of your community water system for more specific information.

Cryptosporidium

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. Cryptosporidium is usually removed through the filtration process and inactivated by other treatment processes such as ozonation. In order to check for the presence of Cryptosporidium in untreated raw water, USEPA issued the Long Term 2 Enhanced Surface Water Treatment Rule in January 2006. As part of this rule, the Manasquan System began monthly sampling and testing for Cryptosporidium in October 2016 and this testing continued through its completion in September 2018. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. These substances can be microbes, inorganic or organic chemicals and radioactive substances. Cryptosporidium is effectively removed by filtration and contact with chlorine. Thus, the inactivation of cryptosporidium is at least 99.99% likely. 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.

Contaminants

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 human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment system plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater run-off, 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 stormwater run-off and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater run-off and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the 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.

Perfluoroalkyl Substances

Some people who drink water containing PFOA in excess of the MCL over many years could experience problems with their blood serum cholesterol levels, liver, kidney, immune system, or, in males, reproductive system. Drinking water containing PFOA in excess of the MCL over many years may also increase the risk of testicular and kidney cancer. For females, drinking water containing PFOA in excess of the MCL over many years may cause developmental delays in a fetus and/or an infant.

Additional information about Perfluoroalkyl compounds can be found at:
https://www.nj.gov/health/ceohs/documents/pfas_drinking%20water.pdf

Public Meetings

Interested individuals may participate in discussions of the operation of the Manasquan Water Supply System by attending the regular monthly meetings of the New Jersey Water Supply Authority or Southeast Monmouth Municipal Utilities Authority.

New Jersey Water Supply Authority: First working Monday of each month at the NJWSA headquarters, 1851 Route 31, Clinton, NJ 08809. Call 1-908-638-6121 for details. Information on the New Jersey Water Supply Authority can also be obtained over the Internet at <http://www.njwsa.org>.

Southeast Monmouth Municipal Utilities Authority: First Thursday of each month in the Main Meeting Room, First Floor, Wall Township Municipal Complex, 2700 Allaire Road, Wall, NJ 07719. Call 1-732-449-8444 for specific meeting dates and times or visit <http://www.smmua.org>.

Source Water Assessment

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 <https://www.nj.gov/dep/watersupply/swap> or by contacting the NJDEP, Bureau of Safe Drinking Water at 609-292-5550 or watersupply@dep.nj.gov. You may also contact the Manasquan Water Supply System at 732-974-8383.

Susceptibility Ratings for NJ Water Supply Authority - Manasquan 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 ratings 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 the 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			Inorganics			Radio-nuclides			Radon			Disinfection Byproduct 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 - 0																											
GUDI - 0																											
Surface water intakes - 2	2				2			2			2			2				2			2	2					

DEFINITIONS:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not detectable above the minimum detection level for that analysis method.

Parts per million (ppm) or Milligrams per liter (mg/l) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (PPB) or Micrograms per liter(ug/l) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) or Nanograms per liter (ng/l) - one part per trillion corresponds to a single penny in \$10,000, 000,000.

Picocuries per liter (pCi/L) - picocuries per liter is a measure of the radioactivity in water.

Perfluorooctanoic acid (PFOA) - (conjugate base perfluorooctanoate), also known as C8, is a synthetic perfluorinated carboxylic acid and fluorosurfactant. One industrial application is as a surfactant in the emulsion polymerization of fluoropolymers. It has been used in the manufacture of such prominent consumer goods as polytetrafluoroethylene (PTFE; Teflon and similar products). PFOA , PFOS, PFNA has been manufactured since the 1940s in industrial quantities.

Nephelometric Turbidity Unit (NTU) - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Treatment Technique (TT) - A treatment technique is 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 treatment or other requirements, which a water system must follow.

MBAS - Methylene blue active substances assay - is a colorimetric analysis test method that uses methylene blue to detect the presence of anionic surfactants (such as a detergent or foaming agent) in a sample of water.

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 a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level 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.

Total Organic Carbon - Total Organic Carbon has no health effects. However, total organic carbon provides a medium for the formation of Disinfection By-products. The Treatment Technique for total organic carbon requires that 35% to 45% of the total organic carbon in the raw water is removed through the treatment processes.

Turbidity - Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth.

Turbidity is measured as an indication of the effectiveness of the filtration process. The Treatment Technique for turbidity requires that no individual sample exceeds 1 NTU and 95% of the samples collected during a month must be less than 0.3 NTU.

TTHM - Total Trihalomethanes are carcinogenic compounds created when Chlorine is added to water as a disinfectant. The MCL for TTHM's requires that one annual sample from an approved location does not exceed 80 parts per billion.

Secondary Contaminant - Substances that do not have an impact on health. Secondary Contaminants affect aesthetic qualities such as odor, taste or appearance. Secondary standards are recommendations, not mandates.

Recommended Upper Limit (RUL) – Recommended maximum concentration of secondary contaminants. These reflect aesthetic qualities such as odor, taste or appearance. RULs are recommendations, not mandates.

Disinfection By-products - These compounds are by-products of the addition of chlorine or ozone employed in the disinfection of drinking water. These compounds are confirmed or suspected carcinogens for which MCLs have been set.

HAA5 - Haloacetic Acids are compounds created when Chlorine is added to water as a disinfectant. The MCL for HAA5's requires that one annual sample from an approved location does not exceed 60 parts per billion.

Monitoring Waiver - Permission from NJDEP or EPA to reduce or eliminate sampling for specific contaminants.

Pathogens - Disease-causing organisms such as bacteria and viruses. Common sources are animal and human fecalwastes.

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 organic 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.