#### PWS ID #NJ1520001

# **Annual Drinking Water Quality Report**

## Township of Ocean Department of Utilities

For the Year 2021, Results from the Year 2020

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water.

We have five wells. Wells 3, 4 and 5 are located in the Pebble Beach section of Waretown and draw their water from the Rio Grande Water-Bearing Zone, Atlantic City "800-foot" Sand Aquifer System. They are located on 7th, 2nd, and 11th Streets respectively. Wells 6 and 7 draw from the same aquifer system and are located on Wells Mills Road, near the water plant. The New Jersey Department of Environmental Protection (NJDEP) has prepared Source Water Assessment Reports and Summaries for all public water systems. Further information on the Source Water Assessment Program can be obtained by logging onto NJDEP's source water web site at <a href="https://www.state.nj.us/dep/swap">www.state.nj.us/dep/swap</a> or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550. You may also contact your public water system at (609) 693-3302 ext. 238. This water system's source water susceptibility ratings and a list of potential contaminant sources is included.

The Township of Ocean Department of Utilities routinely monitors for contaminants in your drinking water according to Federal and State laws. This table shows the results of our monitoring for the period of January 1st to December 31st, 2020. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

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 microbiological contaminants are available from the Safe Drinking Water Hotline.

		TEST	RESULT	S					
Contaminant	Violation Y/N	Level Detected	Units of Measur ement	MC LG	MCL	Likely Source of Contamination			
Radioactive Contamina	nts:								
Combined Radium 228 & 226 Test results Yr. 2018	N	Range = 1.5 Highest detect = 1.5	pCi/I	i/I 0		Erosion of natural deposits			
Inorganic Contaminant	s:	100							
Copper Test results Yr. 2018 Result at 90th Percentile	N	0.09 No samples exceeded the action level	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits leaching from wood preservatives			
Lead Test results Yr. 2018 Result at 90th Percentile	N	ND No samples exceeded the action level	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits			
Disinfection Byproduct	s:								
TTHM Total Trihalomethanes Test results Yr. 2020	И	Range = 3 - 20 Highest LRAA = 13	ppb	N/A	80	By-product of drinking water disinfection			
HAA5 Haloacetic Acids Test results Yr. 2020	N	Range = ND - 5 Highest LRAA = 2	ppb	N/A	60	By-product of drinking water disinfection			
Regulated Disinfectants	S	Level Detected		MRD	և	MRDLG			
Chlorine Test results Yr. 2020		Range = $0.6 - 1.1$ ppm Average = $0.8$ ppm		4.0 ppr	n	4.0 ppm			

Chlorine: Water additive used to control microbes.

For Total Halocetic Acids (HAA5s) and Total Trihalomethanes (TTHMs), which are disinfection byproducts, compliance is based on a Locational Running Annual Average (LRAA), calculated at each monitoring location. The LRAA calculation is based on four completed quarters of monitoring results.

We want our valued customers to be informed about their drinking water utility. If you have any questions about this report or concerning your water utility, please contact Matt Ambrosio at 609-693-3302 ext. 2398. If you want to learn more visit our website, <a href="https://www.twpoceanni.gov">www.twpoceanni.gov</a> or attend any of our regular scheduled Township meetings. Meetings are held on the second Thursday of each month at 7:30 p.m. at the Town Hall, 50 Railroad Ave., Waretown.

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

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.

#### **DEFINITIONS**

In the "Test Results" table you may find some terms and abbreviations you might not be familiar with. To help you better understand these terms we've provided the following definitions:

Non-Detects (ND) - laboratory analysis indicates that the constituent is not present.

Parts per million (ppm) or Milligran.s 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 - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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

<u>Action Level</u> - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

<u>Maximum Contaminant Level</u> - 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.

<u>Maximum Contaminant Level Goal</u> -The "Goal" (MCLG) 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.

<u>Maximum Residual Disinfectant Level</u> - The highest level of a disinfectant that is allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for the control of microbial contaminants.

<u>Maximum Residual Disinfectant Level Goal</u> -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.

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. The Township of Ocean Department of Utilities 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 second to 2 minutes before using water for drinking and 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 or at http://www.epa.gov/safewater/lead.

To ensure the continued quality of our water, we treat it in several ways. We decrease the iron content of the water using a greensand filtration system and potassium permanganate. We use lime to maintain a proper pH, thereby protecting the water distribution system and household plumbing. As a precautionary measure, we disinfect our water using a chlorination system. 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 received monitoring waivers for asbestos and synthetic organic chemicals.

Unregulated Contaminant Monitoring: The Township of Ocean Department of Utilities monitored for the following unregulated contaminants in 2020. Unregulated contaminants are those for which the US Environmental Protection Agency (EPA) or the New Jersey Department of Environmental Protection (NJDEP) has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA and NJDEP in determining the occurrence of unregulated contaminants in drinking water and whether regulation is warranted. Perfluorinated compounds are widely found in the environment. EPA has identified a guidance level of 0.070 ppb for PFOA/PFOS (combined), and NJDEP has adopted new drinking water Maximum Contaminant Level (MCL) standards for PFOA and PFOS of 14 ng/L (0.014 ppb) and 13 ng/L (0.013 ppb), respectively, as of January 2021.

Contaminant	Level Detected	Units of Measurement	Likely source
(PFOS)	Range = ND	ppb	Used in the manufacture of
Perfluorooctane Sulfonate			fluoropolymers.
(PFOA)	Range = ND	ppb	Used in the manufacture of
Perfluorooctanoic Acid			fluoropolymers.

#### What are PFOA and PFOS?

Perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) are per- and polyfluoroalkyl substances (PFAS), previously referred to as perfluorinated compounds, or PFCs, that are man-made and used in industrial and commercial applications. PFOA was used as a processing aid in the manufacture of fluoropolymers used in non-stick cookware and other products, as well as other commercial and industrial uses based on its resistance to harsh chemicals and high temperatures. PFOS is used in metal plating and finishing as well as in various commercial products. PFOS was previously used as a major ingredient in aqueous film forming foams for firefighting and training, and PFOA and PFOS are found in consumer products such as stain resistant coatings for upholstery and carpets, water resistant outdoor clothing, and grease proof food packaging. Although the use of PFOA and PFOS has decreased substantially, contamination is expected to continue indefinitely because these substances are extremely persistent in the environment and are soluble and mobile in water.

## Township of Ocean Department of Utilities - Water System PWSID #NJ1520001

The Township of Ocean Utilities Department Water System is a public community water system consisting of 5 active wells

This system's source water comes from the following aquifers: Rio Grande Water-Bearing Zone, Atlantic City "800-foot" Sand Aquifer System.

## Susceptibility Ratings for Township of Ocean Department of Utilities - Water 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.

	Pathogens			Nutrients			Pesticides			Volatile Organic Compounds			Inorganics			Radionuclides			Radon			Disinfection Byproduct Precursors		
Sources	Н	М	L	Н	М	L	Н	М	1z	Н	М	L	ξŧ	М	La	H	М	L	Н	М	L	Н	М	L
Wells - 5		3	2	2	1	2			5	2		3	3	1	ı	5				ı	4			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 pitrate

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 <a href="http://www.nj.gov/dep/rpp/radon/index.htm">http://www.nj.gov/dep/rpp/radon/index.htm</a> or call (800) 648-0394.

Disinfectant Byproduct Precursors: A common source is naturally 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.

We 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.

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