



ROCKAWAY TOWNSHIP MUNICIPAL UTILITY 2017 WATER QUALITY REPORT

For the Year 2016

CONSERVING WATER TODAY FOR TOMORROW

Rockaway Township Municipal Utility is proud to present our year 2017 Water Quality Report for drinking water analysis conducted during the 2016 calendar year. Annually we provide this report to you with valuable information about your drinking water. This report demonstrates that Rockaway Township continues to produce safe high quality drinking water for our consumers.

Where does your water come from?

The Utility currently operates three groundwater treatment plants that draw water from the Stratified Drift Aquifer. Four of the wells are located along Green Pond Road.

We also have four wells located within the Fox Hills Senior Development on Mt. Hope Avenue.

Over the past five years the Utility has averaged pumping 1.50 million gallons of water per day through our treatment plants into our distribution system and water storage tanks. As well, we bulk purchase water daily from the Town of Dover.

Just as bottled water can contain contaminants so can our wells. As it is well known, two of the three township wells were contaminated with volatile organics by private industry back in the early 1980's. Be assured the Township has continued to provide excellent drinking water by utilizing treatment techniques that include air stripping, carbon filtration and chlorine disinfection.

These treatment techniques allow the Utility to provide high quality drinking water, which more than satisfies all State and Federal Standards.

Security

It is important for the Utility to protect the water supply for our customers. The Utility has made every effort to secure its' facilities from local vandalism as well as terrorist incidents. If you have any security concerns, see people utilizing any fire hydrants, calls upon your house and does not provide proper ID, or if you see any suspicious people around our facilities, please contact the Utility at 1-973-983-2825 or the Police Department at 1-973-625-4000.

Periodic Fire Hydrant Flushing

The Municipal Utility conducts a fire hydrant flushing program throughout the water distribution system. Fire hydrant flushing helps remove any sediment from the water mains which assures consistent water quality. The flushing program also ensures that fire hydrants are checked for proper operation in case of a fire.

HYDRANT FLUSHING WILL OCCUR IN THE FOLLOWING SECTIONS: May & June

Commons Way, Round Hill Drive, Green Pond Rd from Round Hill to Sanders Rd. and all Hydrants in between

Educational Information

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 may come from a variety of sources such as agriculture, urban storm-water runoff, and residential uses.

Organic Chemical Contaminants include 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 that 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 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 (1-800-426-4791)

Special Considerations Regarding Children, Pregnant Women, Nursing Mothers, and other Children may receive a slightly higher amount of a contaminant present in the drinking water than do adults, based on body weight, because they may drink a greater amount of water per pound of body weight than 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 cases of lead and nitrate, effects on infants and children are the health endpoints upon which the standards are based.

Source Water Assessment for Rockaway Township Municipal Utility

Further 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 1-609-292-5550.

Waivers

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate the monitoring requirements for asbestos, volatile organics, and synthetic organic chemicals. Rockaway Township has received monitoring waivers for Asbestos and we are awaiting determination of our waiver for synthetic organic chemicals.

Water Quality

With in this report, we have provided you with a copy of our 2016 water quality testing data. As you can see, Rockaway Township is making every effort to ensure it continues to provide high quality potable drinking water to our customers.

Council Meetings & Information Sites

Rockaway Township Council Meetings are held on the First Tuesday and the Last Tuesday of every month except for Holidays and special Election Days. For more information on Council Meetings: Please call our Township Clerk at 1-973-983-2838

Water System Improvements

Rockaway Township Municipal Utility continually strides to improve the water quality and service to our customers. We have received approval for our permits from NJDEP to operate Well # 9 at our new limit of 650gpm. The Utility has continued to move forward in the development of our new well. As expected we are moving forward with our New Well, we have started the planning process and hope to start drilling in 2017.

The Utility has completed a complete inspection of our Potable water storage tanks, and look forward to the final report. We are always looking to improve our storage capabilities for consumer safety and reliability.

After successfully replacing our Pressure reducing Pit in the Low Erie System. We will now be installing a New *” Watermain on Omaha Ave From Ellen To Ellen. This will help to ensure an even greater reliability to our customers. This major improvement will take place during the summer of 2017.

The Utility is also continuing with its enhanced preventive maintenance program on all our pumps, motors, and electrical control panels and communications systems. We have installed 2 new V.F.D controls at our Sanders Rd Booster station. We are looking into replacing the final 2 drives at this station to complete the control panel upgrades.

Terminology

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.

Action Level

The concentration of a contaminant which if exceeded, triggers treatment or other requirements which a water system must follow;

Treatment Technique

A required process intended to reduce the level of a contaminant in drinking water. (air stripping)

NJDEP

New Jersey Department of Environmental Protection

EPA

Environmental Protection Agency

Parts Per Billion

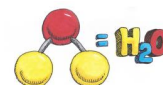
(ppb) or Micrograms per liter - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.00 dollars.

Part 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 \$10,000.00 dollars.

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): “Maximum Residual Disinfectant Level Goal (MRDLG): 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 contaminants.”

Rockaway Township Municipal Utility 2016 Water Quality Data

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 (800-426-4791)

<i>Contaminant</i>	<i>Violation</i>	<i>Level Detected</i>	<i>Units of Measurement</i>	<i>MCLG</i>	<i>MCL</i>	<i>Likely Source of Contamination and Health Effects Language</i>
TTHM's Total Trihalomethanes	No	System Wide Range 6.0 – 12.3 Route 15 Golf Annual Average 0.010mg/l	Ppb	n/a	80	By-product of drinking water chlorination
HAA's Total Haloacetic Acid	No	System Wide Range 0.0 – 6.6 Municipal Bldg Annual Average 0.004 mg/l	Ppb	n/a	60	By-product of drinking water chlorination
Nitrate (as nitrogen)	No	01.09- 1.64 Highest Level Detected 1.64ppm	Ppm	10	10	Run off from fertilizer use, leaching from septic tanks, sewage; erosion of natural deposits
Barium	No	.006 - .026 Highest Level Detected .026ppm	Ppm	2.0	2.0	Discharge of drilling waste; Discharge from metal refineries; erosion of Natural Deposits
Fluoride	No	Range .08 - .16 Highest Level Detected 0.16ppm	ppm	4.0	4.0	Erosion of Natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Lead	No	Result at 90 th Percentile .004ppm	ppm		Action Level – .015 ppm	No sites exceeded the Action Level 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. Rockaway Township is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been setting for several hours, you can minimize your potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead .
Copper	No	Result at 90 th Percentile .157ppm	ppm		Action Level – 1.3ppm	No sites exceeded the Action Level for Copper Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
Sodium	No	Range 15.0 - 63.4 ppm Highest Level Detected 63.4 ppm	ppm	N/A	50.0	FOR SODIUM: 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 of concern to individuals on a sodium restricted diet.”

Combined Radium	No	1.5 Annual Average 1.5	pCi/l	0	5 pCi/l	Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increase of getting cancer and kidney toxicity.
Chlorine Residuals	No	Running Annual Average Range .275	ppm	4.0 ppm	4.0ppm	Calcium Chloride, Tablet Chlorine utilized for Disinfection
Total Coliform Bacteria	Yes	2 Positive Detected	Positive Sample	0	1 Positive Monthly Sample	Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria may be present. Coliforms were found in more samples than allowed and this was a warning of potential problems.

News on Lead & Copper

Recently, there has been several news articles on Lead & Copper specifically, Flint Michigan, Morristown Hospital and Newark School District in New Jersey. The Utility wishes to inform our customers that we have tested our system in accordance with NJDEP sampling regulations and the Utility is in compliance with the & Copper Rule. Additionally, we do add a sequestering agent to the water as part of our treatment process which provides a coating on the pipes to aid in preventing lead and copper issues.

Our next round of Lead and Copper Samples will take place in June of 2017

The public may review any of the Utilities water testing results by going to the NJDEP –Drinking Water Watch Website below.

Under the PWSID #, please type 1435002

https://www9.state.nj.us/DEP_WaterWatch_public/

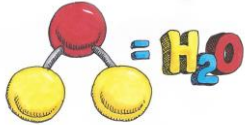
The Rockaway Township Municipal Utility News Page

In the News, Rockaway Township has developed and published a new web site, this allows for more detailed information to be obtained more quickly, it also allows residents to send in Service Requests. Information may also be found on the township Facebook Page <https://www.Facebook.com/RockawayTownship/>

Along with the new web site the Municipal Utility has several pages on water the Utility and WATER CONSERVATION MEASURES.

www.rockawaytownship.org

EPA's Drinking Water Web Site (www.epa.gov/safewater)	Safe Drinking Water Hotline (1-800-426-4791)
Rockaway Township Municipal Utility Superintendent, Eugene J. Garabrant at; 1-973-983-2825. Water@rockawaytownship.org Rockaway Township Public Water Supply PWSID = 1435002	New Jersey Bureau of Safe Drinking Water (1-609-292-5550)



Sweep your driveway, do not wash it

Use automatic nozzles on hoses

Remember, you do not have to water your lawn every day.

Only water when your lawn shows signs of needing water or every other day

Water plants with Rain water

Check your toilets for leaks by putting food coloring into the closet (back of toilet).

If the water in the bowl changes color, you have a leak.

CONSERVE WATER TODAY FOR TOMORROW
REMEMBER WATER IS FOR LIFE

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