

# 2022 Annual Water Quality Report

## DOYLESTOWN BOROUGH WATER SYSTEM

10 DOYLE STREET

DOYLESTOWN, PENNSYLVANIA 18901

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### THIS REPORT CONTAINS IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.

Tradúzcalo o hable con alguien que lo entienda bien.

#### **Consumer Confidence Report Rule**

In 1996, Congress amended the Safe Drinking Water Act, adding a provision that requires all community water systems to deliver to their customers a brief annual water quality report. Final regulations were promulgated by EPA in 1998, known as the Consumer Confidence Report Rule, which established the requirements for these annual water quality reports. The deadline for distribution of the annual report is July 1st of every year, for the preceding calendar year.

#### **Treatment of Drinking Water**

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 EPA's Safe Drinking Water Hotline at (800) 426-4791 or by visiting EPA's website at [www.epa.gov/safewater](http://www.epa.gov/safewater).

Ground water withdrawn from the Doylestown area is treated within the well houses before being pumped into the distribution system. Treatment chemicals added include: Sodium Hypochlorite (Chlorine), Sodium Hydroxide (Caustic Soda), and SNC Type-B (ortho / poly phosphonate blend). Chemical addition is necessary for disinfection, PH remediation, and corrosion control respectively. Disinfection is necessary to inactivate microorganisms which are naturally present in the environment. The treated water is pumped through the distribution system to storage tanks.

#### **Doylestown Sources of Water**

The water system, owned and operated by the Doylestown Borough is permitted under the Pennsylvania Safe Drinking Water Act and is identified as PWS ID No. 1090081.



The drinking water is drawn from five wells located throughout the borough, and are classified as ground water sources. As rainwater and melted snow travels through the surface of the earth, it dissolves naturally and unnaturally occurring minerals and radioactive material and may pick up different substances.

Doylestown maintains two finished water storage tanks. The first, with a capacity of 1,000,000 gallons is located at the corner of Spruce St. and E. Court St. The second, with a capacity of 400,000 gallons is in the woods near Veterans Memorial Park.

The borough also receives water from the Doylestown Township Municipal Authority (DTMA) through an interconnect located on Memorial Dr.

#### **Safety of Drinking Water**

Some people may be more vulnerable to drinking water contaminants than the general population. Immuno-compromised persons, such as people 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/Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from EPA's Safe Drinking Water Hotline at (800) 426-4791 or at [www.epa.gov/safewater](http://www.epa.gov/safewater).



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#### **For More Information About Your Water:**

*Doylestown Borough  
Water Committee  
Meetings*

Second Tuesday of  
every Month.  
Meetings @ 6:30 PM

*Meeting Location  
Borough Hall:  
10 Doyle St.  
Doylestown, PA*

*Contact Person:  
John Davis  
Borough Manager  
215-345-4140*

Public Water System  
ID# 1090081

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### Common Contaminants in Water

Contaminants that may be present in the source water include:

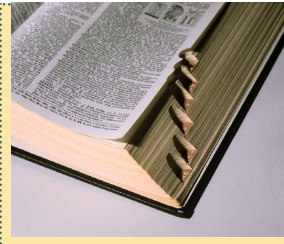
- ☛ Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- ☛ Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, 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 which may also come from gas stations, urban storm water runoff and septic systems.
- ☛ Radioactive contaminants, which can be naturally-occurring or be the result of mining activities.



In order to ensure that tap water is safe to drink, EPA establishes regulations which limit the amount of certain contaminants in water provided by public water systems.

### Contaminants Detected in Your Water

The Doylestown Borough is pleased to report that the water that you drink has complied with all federal and state drinking water standards during 2022. However, even with the best water treatment, it is not always possible to remove all contaminants. Earth and rock act as natural filters and remove many of these contaminants. The water department tested for approximately 95 different contaminants during the past 10 years. Not all of these contaminants are required to be tested every year. Of those 95 contaminants tested, only 15 different contaminants were detected, all of which are within DEP determined safe levels. These 15 different contaminants and their potential sources of contamination are shown on the following pages. Contaminants tested but not detected include but are not limited to the following: E. coli, 30 Synthetic Organic Contaminants, and 20 Volatile Organic Contaminants.



### Definitions of Terms

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

**Doylestown Township Municipal Authority (DTMA):** The Doylestown Borough provides water to parts of the

township and receives water of an equal amount as payment from the township's water system.

**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 disinfectant residual, in this case for Chlorine, that is allowed in drinking water.

**Maximum Residual Disinfectant Level Goal (MRDLG):** The level of disinfectant residual in drinking water, in this case for Chlorine, below which there is no known or expected risk to health.

**Minimum Residual Disinfectant Level (Min. RDL):** The minimum level of residual disinfectant required at the entry point to the distribution system.

**Parts Per Billion (ppb):** Unit of concentration equivalent to micrograms per Liter ( $\mu\text{g/L}$ ).

**Parts Per Million (ppm):** Unit of concentration equivalent to milligrams per Liter ( $\text{mg/L}$ ).

**Parts Per Trillion (ppt):** Unit of concentration equivalent to nanograms per Liter ( $\text{ng/L}$ ).

**Picocuries per Liter (pCi/L):** Measure of radiation.

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

### SWAP Plan

A source water assessment and protection (SWAP) plan was prepared by the Delaware River Basin Commission (DRBC), on behalf of the Pennsylvania Department of Environmental Protection (DEP), for Doylestown's wells. The purpose of SWAP plans is to determine potential sources of pollution that may impact public water supplies and the appropriate measures to be taken to protect such water supplies. The core assessment issues of the Delaware River Watershed include contamination from agricultural activities, urban runoff and industrial point sources. The final report is available from DEP upon request.



TABLE OF CONTAMINANTS <sup>1</sup>				
Contaminants	MCL	MCLG	Test Value <sup>2</sup>	Major Sources in Drinking Water
<b>INORGANIC CONTAMINANTS</b>				
Arsenic	10 ppb	0 ppb	0 ppb 4.5 ppb DTMA (2021)	Erosion of natural deposits. Discharge from refineries and factories.
Barium	2 ppm	2 ppm	0.42 ppm (2021) 0.26 ppm DTMA (2021)	Erosion of natural deposits.
Nitrate	10 ppm	10 ppm	4.43 ppm 2.83 ppm DTMA	Erosion of natural deposits. Runoff from fertilizer use. Leaching from septic tanks & sewage.
<b>VOLATILE CONTAMINANTS</b>				
1,1-Dichloroethylene	7 ppb	7 ppb	1.9 ppb 0 ppb DMTA	Discharge from industrial chemical factories.
Tetrachloroethylene	5 ppb	0 ppb	0 ppb 3.6 ppb DTMA	Discharge from factories and dry cleaners
<b>RADIOLOGICAL CONTAMINANTS</b>				
Gross Alpha	15 pCi/L	0 pCi/L	7.49 pCi/L (2020) 5.50 pCi/L DTMA (2020)	Erosion of natural deposits
Combined Uranium	20 pCi/L	0 pCi/L	2.75 pCi/L (2017) 1.81 pCi/L DTMA (2020)	Erosion of natural deposits
Radium 226	5 pCi/L	0 pCi/L	2.44 pCi/L DTMA (2017)	Erosion of natural deposits
Radium 228	5 pCi/L	0 pCi/L	1.18 pCi/L DTMA (2017)	Erosion of natural deposits
<b>LEAD AND COPPER RULE</b>				
Copper	AL = 1.3 ppm	1.3 ppm	90th Percentile: 0.69 ppm 0.68 ppm DTMA	Corrosion of household plumbing systems. Erosion of natural deposits.
Lead	AL = 15 ppb	0 ppb	90th Percentile: 2.3 ppb 0 ppb DTMA	Corrosion of household plumbing systems. Erosion of natural deposits.
Number of sites above AL: [Lead: 0 of 20] [Copper: 0 of 20]				
<sup>1</sup> Doylestown Township Municipal Authority Values are noted as (DTMA), all other values are from Doylestown Borough's System. <sup>2</sup> Pennsylvania DEP allows public water systems to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data presented on this table, though representative, may be more than one year old. In these cases, the calendar year in which water samples were tested for these contaminants is shown in parentheses.				
Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially-harmful, bacteria may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessments to identify problems and to correct any problems that were found during these assessments.				

### Information about Lead:

While your drinking water meets EPA's standard for lead, it does contain low levels of 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. Doylestown Borough 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 or at <http://www.epa.gov/safewater/lead>

### Information about Arsenic:

While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs 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.

### Information about Nitrate:

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.

TABLE OF CONTAMINANTS <sup>1</sup>				
Contaminants	MCL	MCLG	Test Value <sup>2</sup>	Major Sources in Drinking Water
<b>DISINFECTION BYPRODUCTS (DBPs), PRECURSORS AND DISINFECTANT RESIDUALS</b>				
Free Chlorine	MRDL = 4.0 ppm	MRDLG = 4.0 ppm	Avg. High: 1.09 ppm Avg. Low: 0.8 ppm  Avg. High: 0.67 ppm (DTMA) Avg. Low: 0.55 ppm (DTMA)	Water additive used to control microbes.
Haloacetic Acids	60 ppb	NA	0 ppb 4.8 ppb DTMA	Byproduct of drinking water chlorination.
Total Trihalomethanes	80 ppb	NA	0 ppb 12.1 ppb DTMA	Byproduct of drinking water chlorination.
<b>PER- AND POLYFLUOROALKYL SUBSTANCES (PFOS/ PFOA)</b>				
Perfluorooctanoic Acid (PFOA)	N/A	N/A	14 ppt <sup>3</sup>	Byproduct of Commercial & Industrial Manufacturing
Perfluorooctanesulfonic Acid (PFOS)	N/A	N/A	13 ppt <sup>3</sup>	Byproduct of Commercial & Industrial Manufacturing
<b>ENTRY POINT DISINFECTANT RESIDUAL / GROUND WATER TREATMENT RULE (GWTR)</b>				
Free Chlorine	Min. RDL = 0.4 ppm	NA	0.41 ppm Range: 1.67 - 0.41 ppm 0.70 Range: 1.90 - 0.70 ppm DTMA	Water additive used to control microbes.
<sup>1</sup> Doylestown Township Municipal Authority Values are signified as (DTMA), all other values are from Doylestown Borough's System. <sup>2</sup> Pennsylvania DEP allows public water systems to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data presented on this table, though representative, may be more than one year old. In these cases, the calendar year in which water samples were tested for these contaminants is shown in parentheses. <sup>3</sup> Maximum recorded value				

**Information about PFOS & PFOA:**

PFAS chemicals are among a family of man-made compounds that have been used for decades as ingredients to make products resistant to heat, oil, stains, grease, and water. PFAS chemicals can be found in industrial and consumer products such as clothing, carpeting, food packaging, non-stick cookware, firefighting foam, personal care products, adhesives, metal plating, wire manufacturing, and many other uses. In 2022, these compounds were not included on either the US EPA's or PA DEP's Safe Drinking Water Act Primary or Secondary listing of contaminants. In January 2023, PA DEP set new drinking water standards for PFOA and PFOS, two contaminants that are part of the larger group of PFAS chemicals. The new regulations set a MCL of 14 ppt for PFOA and a MCL of 18 ppt for PFOS. In March 2023, the US EPA proposed the first national drinking water standard for PFOA and PFOS. The proposal would regulate PFOA and PFOS at an MCL of 14.0 ppt. EPA anticipates finalizing the rule by the end of 2023. Water systems will then be required to meet the MCLs after a specified implementation timeframe, which EPA has not yet determined. Doylestown Borough is being proactive to ensure that we meet any existing and future proposed regulations related to PFAS. Since 2016, PFAS monitoring has been conducted at the Borough's

**Information about Reporting Violations:**

During the reporting period covered by the 2022 Consumer Confidence Report the Borough Water System had two violations of reporting requirements to the Pennsylvania Department of Environmental Protection. In the 4th Quarter of 2022 the reporting results for disinfectant residual and lead / copper group contaminant samples were submitted to the Department after the allowable reporting period deadline. The results of the testing were within the allowable contaminate limits. This error was strictly administrative and the Borough staff is taking precautions to prevent the occurrence of further reporting errors. This statement is provided in compliance with the Public Notification requirements of the Safe Drinking Water Act.

**Doylestown Borough  
Council Members**

<p><b>Noni West: <u>Mayor</u></b>  <b>Ben Bell</b>  <b>Lawrence Browne</b>  <b>Dennis Livrone</b>  <b>Curtis Cowgill</b></p>	<p><b>Jack O'Brien: <u>Council President</u></b>  <b>Wendy Margolis</b>  <b>Joe Frederick</b>  <b>Amy Taylor Popkin</b>  <b>Jennifer Jarret</b></p>
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