Deptford Township Municipal Utilities Authority Public Water Systems ID# 0802001

2020 ANNUAL WATER QUALITY REPORT

JUNE 2021



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To comply with state and federal regulations, the Deptford Township Municipal Utilities Authority [DTMUA] issues a report annually describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and your awareness of the need to protect our drinking water

sources.

Drinking water standards are regulations that the Environmental Protection Agency (EPA) sets to control the level of contaminants in the nation's drinking water. These standards are part of the Safe Drinking Water Act's (SDWA) "multiple barrier" approach to drinking water protection, which includes assessing and protecting drinking water sources; protecting wells and collection systems; making sure water is treated by qualified operators; ensuring integrity of distribution systems; and making information available to the public on the quality of their drinking water.

The source of Deptford Township Municipal Utilities Authority [DTMUA] is groundwater from seven wells, each with individual chlorinating treatment facilities. The wells vary in depth from 261 to 355 feet deep. Water pumped from the wells is treated with a polyphosphate for corrosion control and to minimize the staining effects on fixtures. The seven wells pump water from the Potomac-Raritan-Magothy (PRM) Aquifer formation. The DTMUA's annual diversion from the Aquifer for the year 2020 was 308.874 million gallons.

Deptford Township used 893,744,000 gallons of water last year. In order to meet this demand, the DTMUA must augment its well water supply with the bulk purchase of treated water from NJ American Water Company (NJAWC). NJAWC's water originates from the Delaware River. Approximately fifty-nine percent of our water came from NJAWC in 2020.

The DTMUA has approximately 11,036 water connections serving over 30,349 residents (estimate provided by the U.S. census bureau, July 2019). Last year, the DTMUA supplied on average, 2.22 million gallons of water per day during the winter months and 2.67 million gallons of water per day during the summer months. This equates to approximately 80 gallons of water daily per person in the service area.

The New Jersey Department of Environmental Protection (NJDEP) has completed and issued the Source Water Assessment Report and Summary for DTMUA's water system which is available at www.nj.gov/dep/watersupply or by contacting NJDEP's Bureau of Safe Drinking Water at (609) 292-5550 or watersupply@dep.nj.org.

All seven wells tested low in the susceptibility ratings for pathogens, nutrients, pesticides, volatile organic compounds and radon. All seven wells tested medium for disinfection by-product precursors and inorganics. Four wells tested medium and three wells tested low for radionuclides.

UR COMMITMENT TO YOU

The DTMUA is committed to providing residents with a safe and reliable supply of high-quality drinking water all year round. Each day our employees are working to ensure that the water delivered from our facilities meet or exceed all Federal and State regulatory requirements.

This brochure is a summary of the quality of water provided to our customers last year. Included are details about where your water comes from, what our test results show about it, and how it compares to standards set forth by the Federal and State regulatory agencies. Copies of all test results as submitted to regulatory agencies are available for examination during normal business hours at the DTMUA's office.

AIVER

The SDWA 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.

The State of New Jersey allows monitoring for some substances less than once a year because the concentrations of these substances do not change frequently. Some of our data in the Table of Detected Contaminants, though representative, may be more than one year old.

TABLE OF DETECTED CONTAMINANTS - RESULTS FOR 2020

Contaminants	Unit	MCL	MCLG	Deptford I Highes Detection	t	Deptford MUA Range Detected	NJAWC Highest Compliance	NJAWC Range Detected	Major Sources
TREATMENT BYPRODUCTS	s, Treatm	ENT BYPRODUC	TS PRECUI	RSOR REMOV	AL AND	TURBIDITY			
Ratio of Actual /Required TOC Removal(1)	Ratio	TT: Running Annual Average ≥ 1.0	NA	-		-	66%	45% - 66%	Naturally present in the environment
Total Organic Carbon(1)	%	TT ≥ 35% Removal	NA	-		-	1.89	1.29 - 1.89	Naturally present in the environment
	NTU	TT=1NTU	NA	-		-	0.01	NA	Soil runoff
Turbidity(1)(4)	%	TT=% of samples <0.3 NTU	NA	-		-	100% ⁽⁴⁾	NA	Soil runoff
RADIOLOGICALS									
Alpha Emitters (2020)	pCi/l	15	0	<.3		-	NA	NA	Erosion of natural deposits
Combined Radium (Ra226/228) (2020)	pCi/l	5	0	1.5		-	NA	NA	Erosion of natural deposits
Inorganic Substances		,							
Barium (2020)	mg/L	2	2	0.083		0.014 to 0.083	NA	NA	Discharge of drilling wastes & metal refineries; Erosion of natural deposits
Copper (2020)	mg/L	AL=1.3	AL= 1.3	0.389 with 0 exceeding		Homes above AL[0]	<0.04	Home above AL[0]	Corrosion of household plumbing systems
Fluoride (not added) (2020)	mg/L	4	4	0.74		0.08 to 0.74	NA	NA	Erosion of natural deposits; Discharge from fertilizer and aluminum factories
Lead (2020)	mg/L	AL=.015	AL=0	0.00473 with exceeding		Homes above AL[1]	-	-	Corrosion of household plumbing systems
Nickel (2020)	mg/L	NA	NA	<0.001	6	-	NA	NA	Erosion of natural deposits
Nitrate	mg/L	10	10	1.28		<1.0 to 1.28	0.99	NA	Runoff from fertilizer use; industrial or domestic wastewater discharges; erosion of natural deposits
Sodium	mg/L	50	50	61.3		1.94 to 61.3	NA	NA	Erosion of natural deposits
DISINFECTION BY-PRODU	ICTS				LRAA				
Stage 2 Total Trihalomethanes (TTHM)	ppb	80	NA	40.3	NA	0.8 to 40.3	NA	NA	Drinking water disinfection
Stage 2 Total Halacetic Acid (HAA5)	ppb	60	NA	21.4	NA	1 to 21.4	NA	NA	Drinking water disinfection
Bromate (2018)(1)	ppb	10	0	-		-	<.005	<.005	By-product of drinking water disinfection
MICROBIAL CONTAMINAL	NTS								
Total Cloriform Bacteria	Postive Monthly Samples	5%	0	0		0	NA	NA	Naturally present in environment
DISINFECTANTS									
Chlorine	ppm	MRDL = 4	MRDLG = 4	0.5		0.2 - 0.51	NA	0.56 to 1.46	Water additives to control microbes
			YES	NA		TT = ≥ 0.20	NA	3.50 10 1.10	

FOOTNOTES

- DTMUA was not required to test for these substances.
 This level represents the highest annual quarterly average calculated from the data collected. Compliance is based on running annual average.
 Data represents the lowest removal of Total Organic Carbon (TOC).
 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, and a good indicator of the effectiveness of our filtration.
- 5. Data represents the lowest and highest chlorine residual entering the distribution system from our surface water treatment plant.
- 6. Data represents highest locational quarterly running annual average.

TABLE OF DETECTED CONTAMINANTS - RESULTS FOR 2020

Unregulated contaminants monitoring (ucmr4): 2019 - 2020 DTMUA Results						
Contaminate	Units	Minimum Reporting Level	Results	Typical Source		
Ethoprop	ppb	0.03	< 0.03	Used in insecticides		
Oxyflourfen	ppb	0.05	< 0.05	Used in herbicides and insecticides		
Profenofos	ppb	0.3	< 0.3	Used in insecticides		
Tebuconazole	ppb	0.2	< 0.2	Used in insecticides		
Total Permethrin (cis- & trans-)	ppb	0.04	<0 .04	Used in medication and insecticides		
Tribufos	ppb	0.07	< 0.07	Used in herbicides and insecticides		
Germanium	ppb	0.3	< 0.3	Naturally-occuring elemental metal - used in some medications		
Manganese	ppb	0.4	< 0.4	Naturally-occuring elemental metal - essential dietary element		
Alpha- Hexachlorocyclohexane	ppb	0.01	< 0.01	Used in insecticides		
Clorpyrifos	ppb	0.03	< 0.03	Used in insecticides		
Dimethipin	ppb	0.2	< 0.2	Used in herbicides and insecticides		

Unregulated contaminants monitoring (ucmr4): 2019 NJAWC Results							
Parameter	Units	Highest Locational Average	Range Detected	Typical Source			
Manganese	ppb	1.02	ND to 1.8	Naturally-occuring elemental metal; largely used in aluminum alloy production. Essential dietary element.			

TABLE DEFINITIONS

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

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

MCL (Maximum Contaminant Level): 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.

MCLG (Maximum Contaminant Level Goal): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for margin of safety.

<u>Maximum Residual Disinfectant Level (MRDL)</u> - 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.

<u>Maximum Residual Disinfectant Level Goal (MRDLG)</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 contaminants.

NA - Not Applicable

ND - Not Detected

NJAWC - New Jersey American Water Company.

NR (Not Regulated): Indicates that there currently are no available regulations for these substances.

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

ppm (parts per million): One part substance per million parts water.

ppb (parts per billion): One part substance per billion parts water.

pCi/L (picoCuries per liter): A measure of the radioactivity in water.

 $\overline{\Pi}$ (Treatment Technique): A required process intended to reduce the level of a contaminant in drinking water.

SECONDARY STANDARDS (RELATED TO THE AESTHETIC QUALITY OF DRINKING WATER)

Substance	Unit	Recommended Upper Limit Detection	DTMUA Highest Detection	DTMUA Range Detected	NJAWC Highest Detection	NJAWC Range Detected	Major Sources
Iron	mg/L	0.3	<0.01	ND to <0.1	NA	NA	Naturally occuring
Sodium	mg/L	50	61.3	19.4 to 61.3	NA	NA	Naturally occuring
Sulfate	ma/L	250	36.7	8.1 to 36.7	NA	NΔ	Frosion of natural denosits

Iron: The secondary recommended upper limit for iron is based on unpleasant taste of the water and staining of fixtures and laundry. Iron is an essential nutrient, but some people who drink water with iron levels well above the recommended upper limit could develop deposits of iron in a number of organs of the body.

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.

REQUIRED HEALTH LANGUAGE

All 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 may be obtained by calling the EPA Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled) 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.

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. DTMUA 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 water tested. Information on lead in drinking water is available from Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Substances that may be present in source water before we treat it include:

- INORGANIC SUBSTANCES, such as salts and metals that can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- MICROBIAL SUBSTANCES, such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

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 secondary RUL may be of concern to individuals on a sodium restricted diet. This shall serve as public notice for consumers that the sodium levels slightly exceed the secondary standards for sodium.

- ORGANIC CHEMICAL SUBSTANCES, including synthetic and volatile
 organic chemicals, which are by-products of industrial processes and
 petroleum production, and can also come from gas stations, urban
 storm water runoff and septic systems.
- PESTICIDES AND HERBICIDES, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- RADIOACTIVE SUBSTANCES, 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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.

VULNERABLE POPULATION LANGUAGE

"Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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."

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

The Deptford Township Municipal Utilities Authority [DTMUA] Failed to Comply With a Testing Procedure. This Does Not Mean We Exceeded a Maximum Contaminant Level.

The DTMUA failed to comply with a required testing procedure in 2020. Even though this was not an emergency, as our customers, you have a right to know what happened and what we did to correct the situation.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not our drinking water meets health standards. During 2020, we did not complete timely monitoring and testing for TTHM's and HAA5's, although we were late with our sampling and reporting the DTMUA has never exceeded the maximum contaminant level for these substances.

Any sample we collect must be analyzed by a certified laboratory within a specific amount of time. The DTMUA contracts an independent certified laboratory for its testing. Testing for TTHM's I HAA5's was scheduled for April, 2020 but was sampled in June, 2020 and all levels met New Jersey D.E.P. guidelines.

There is nothing you need to do at this time. You may continue to drink the water. Sampling and testing for TTHM's I HAA5's was conducted on June 26, 2020 and all levels met New Jersey D.E.P. quidelines.

Please share this information with all other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice has been sent to you by The Deptford Township Municipal Utilities Authority State Water System ID# 0802001

Date Distributed: June 30, 2021

For more information, please contact Michael J. Cusick at 856-415-1111 Ext. 226 or at Deptford Twp. M.U.A. P.O. Box 5506 Deptford, N.J. 08096.

2021 MEETING DATES

Our monthly meetings are usually held on the 3rd Tuesday of each month at 5:30pm at 898 Cattell Road. Below is a list of meeting dates for 2021.

 June 15, 2021
 October 19, 2021

 July 20, 2021
 November 23, 2021

 August 17, 2021
 December 21, 2021

 September 21, 2021
 January 18, 2022

Source of Information

DEPTFORD TOWNSHIP MUNICIPAL UTILITIES AUTHORITY

898 Cattell Rd., Wenonah, NJ 08090 Tel: (856) 415-1111 Fax: (856) 415-0199 Monday - Friday from 7:45am to 4:45pm www.deptfordmua.com

NEW JERSEY AMERICAN WATER COMPANY

1025 Laurel Oak Road, Voorhees, NJ 08043 Customer Service - Tel: (800) 272-1325 www.amwater.com

U.S. EPA SAFE DRINKING WATER: (800) 426-4791

NJ DEP BUREAU OF SDW: (609) 292-5550

DTMUA PWS ID #: NJ0802001

NJAWC PWS ID#: 0327001

BOARD MEMBERS

LINDA TRAMO - CHAIRMAN

PATRICK MEDANY - VICE CHAIRMAN

Daniel Reed - Secretary / Treasurer

RUBY LOVE - BOARD MEMBER
JOSEPH SACERDOTE - BOARD MEMBER
GREGORY THELEN - ALTERNATE MEMBER #1

EDWARD KALINOWSKI - ALTERNATE MEMBER #2

PROFESSIONALS & STAFF

MICHAEL J. CUSICK - EXECUTIVE DIRECTOR
SCHROEDER LAW GROUP - ATTORNEY
CME - CONSULTING ENGINEER
BOWMAN AND COMPANY - AUDITOR
JOHN STOCKLIN - ASSISTANT UTILITIES SUPERINTENDENT

HOLIDAYS

Monday, July 05, 2021	Independence Day
Monday, September 06, 2021	LABOR DAY
Monday, October 11, 2021	COLUMBUS DAY
Tuesday, November 03, 2021	Election Day
THURSDAY, NOVEMBER 11, 2021	Veterans Day
Thursday, November 25, 2021	Thanksgiving
Friday, November 26, 2021	Day After Thanksgiving

FRIDAY, DECEMBER 24, 2021

FRIDAY, DECEMBER 31, 2021

MONDAY, JANUARY 17, 2022

MONDAY, FEBRUARY 21, 2022

FRIDAY, APRIL 15, 2022

MONDAY, MAY 30, 2022

MONDAY, MAY 30, 2022

CHRISTMAS

NEW YEARS

MARTIN LUTHER KING

PRESIDENTS DAY

GOOD FRIDAY

MEMORIAL DAY