

300 Forty Foot Road • Lansdale, PA 19446

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This report is also available online at

www.npwa.org



ANNUAL DRINKING WATER QUALITY REPORT

This report is being mailed to you as a requirement of the Federal Safe Drinking Water Act.

PWSID#1460034

"A dedicated, professional workforce committed to providing the community with a safe, reliable, and economical water supply."

EDUCATIONAL INFORMATION

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 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 stormwater 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 stormwater runoff, 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 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, the US EPA and PA DEP prescribe regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) and PA DEP 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 United States Environmental Protection Agency's Safe Drinking Water Hotline at **1-800-426-4791**.



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INFORMATION ABOUT 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. North Penn Water Authority 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 at 1-800-426-4791 or go to US EPA's website at: http://www.epa.gov/safewater/lead.

INFORMATION ABOUT ARSENIC

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

US 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 advice from your health care provider.

CRYPTOSPORIDIUM AND GIARDIA

Cryptosporidium and Giardia are microbial pathogens found in surface water throughout the United States. In 2019, Forest Park Water monitored the North Branch Neshaminy Creek source water (before treatment) for Cryptosporidium and Giardia. Cryptosporidium was detected in 3 out of 4 samples collected. Giardia was detected in 1 out of 4 samples collected. Although Forest Park Water treatment process includes filtration to remove Cryptosporidium and Giardia, the most commonly-used filtration methods cannot guarantee 100 percent removal. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease.

Ingestion of *Cryptosporidium* may cause *cryptosporidiosis*, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at a greater risk of developing life-threatening illness. NPWA encourages immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may be spread through means other than drinking water.

FOREST PARK WATER

Forest Park is a state of the art water treatment facility that combines conventional treatment processes with advanced techniques, which include ozone disinfection and membrane filtration. Membrane filtration is a leading-edge technology capable of consistently producing very high quality water and ensures the plant can safely meet the more stringent federal and state water quality regulations that will be required in the near future. This combination of traditional and innovative water treatment allows Forest Park to produce the safest, highest quality water possible. In 2019, the American Water Works Association's Partnership for Safe Water Program awarded the Forest Park Water Treatment Plant (FPWTP) with the President's Award for the 7th straight year. The President's Award recognizes achieving very stringent individual filter performance turbidity goals, signifying the outstanding operations and maintenance practices at this high-performing water treatment plant. The FPWTP has been involved in the Partnership for Safe Water since 1995 and is a Directors Award recipient since 2002. In 2019, for the 13th consecutive year, Forest Park received the prestigious Area-Wide Optimization Award (AWOP) presented by the Pennsylvania Department of Environmental Protection (PA DEP). The award recognizes outstanding efforts toward optimizing water treatment performance. AWOP is a national optimization effort among 22 states, the US EPA, and the Association of State Drinking Water Administrators.



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Below is a list of parameters which NPWA monitored for in 2019 but DID NOT DETECT:

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Total Coliform Bacteria

E. Coli

Inorganic Chemicals (IOCs)

Cadmium Antimony

Cyanide

Nickel

Selenium

Beryllium

Chromium

Mercury

Nitrite

Thallium

Synthetic Organic Chemicals (SOCs)

Atrazine

Di(2-ethylhexyl) phthalate

Simazine

Di(2-ethylhexyl) adipate

Pentachlorophenol

Volatile Organic Chemicals (VOCs)

1,1,1-Trichloroethane

p-Dichlorobenzene

Benzene

Dichloromethane trans-1,2-Dichloroethylene

1,1,2-Trichloroethane

1,2-Dichloroethane

Carbon tetrachloride

Ethylbenzene

Trichloroethylene

1,1-Dichloroethylene

1,2-Dichloropropane

Chlorobenzene

Styrene

Vinyl Chloride

1,2,4-Trichlorobenzene

o-Dichlorobenzene

cis-1,2-Dichloroethylene

Toluene

Xylenes, total

HOW NPWA IS PROTECTING THE WATER YOU DRINK

Lead in drinking water typically comes from the corrosion of drinking water service lines and household plumbing materials. Lead is typically not present in drinking water sources like rivers and groundwater. NPWA and FPWTP add orthophosphate to the water during the treatment process. Orthophosphate acts as a corrosion inhibitor by forming a protective film on the interior of pipes. This film protects the pipe material from the corrosive effects of water, which reduces/eliminates the potential for lead leaching into the water. The typical phosphate levels found in a liter of drinking water are about one hundred times lower than the phosphate levels found in the average American diet. For example, a person would have to drink ten to fifteen liters of water to equal the amount of phosphates in just one can of soda. People concerned about their health and phosphates added as a corrosion inhibitor to the drinking water, should contact their medical care provider.

To enhance water quality, NPWA performs an annual hydrant flushing program which takes place in the spring of each year. This flushing program helps improve water quality by removing any possible build-up of mineral deposits from the inside of water distribution pipes. NPWA also has an aggressive water main replacement program to improve the quality of water that we deliver to our customers. Old unlined cast iron mains, that can affect water quality and restrict flow, are replaced on a regular basis. These projects are scheduled when the Pennsylvania Department of Transportation (Penn DOT) or our member municipalities are doing work on the roads to reduce inconvenience to the community.

In 2017, NPWA received the Directors Award for its efforts with the Partnership for Safe Water's Distribution System Optimization Program (DSOP). NPWA became the first public water utility in Pennsylvania to join the DSOP and among the first in North America to receive this prestigious honor for successfully completing a comprehensive self-assessment of water distribution system operations. The assessment involves an evaluation of distribution system operations and performance, including factors such as chlorine residuals, pressure levels and frequency of water main breaks. The final report is reviewed by water resource professionals from across the United States. This award acknowledges the Authority's commitment to excellence in distribution system operations in providing high quality safe drinking water to the customer's tap above and beyond regulatory standards.

NPWA's Wellhead Protection (WHP) Program, approved by the PA DEP, meets the requirements for a local WHP Program in accordance with the Pennsylvania Safe Drinking Water Regulations. The WHP Program provides valuable information to the Authority such as: identifying the protection zone around each well, identifying potential sources of contamination for each well, identifying the land areas around our wells, and the underground geologic layers, that are within the pumping zones of influence. This information will greatly assist the Authority in dealing with emergency response in case of a hazardous spill event that could threaten the well, so that remedial measures could be put in place. Also, implementation of contingency planning could involve revisions to local land use practices, if necessary, to protect the integrity of the groundwater supply.



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Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.

This report contains important information about your drinking water. Have someone translate it for you, or speak with someone who understands it.

Owners of multiple family dwellings, commercial businesses, public housing, or similar situations, are encouraged to post and /or distribute this report. Additional copies are available and can be obtained at North Penn Water Authority's operations center or by calling (215) 855-3617.

This report is also available online at www.npwa.org.

Water System Information

North Penn Water Authority (NPWA) is pleased to present to you this year's Annual Drinking Water Quality Report. This report summarizes the quality of water NPWA provided in 2019. Included are details about where your water comes from, what it contains, and how it compares to United States Environmental Protection Agency (US EPA) and Pennsylvania Department of Environmental Protection (PA DEP) state standards. We are committed to providing you with information because informed customers are our best allies. The Authority's staff of professionals is dedicated to ensuring that our customers receive a safe, economical, and continuous supply of water.

It is important for our valued customers to be informed about their water quality. If you have any questions about this report or regarding your water utility, please contact Lindsay Hughes, Community Relations Coordinator, at (215) 855-3617 or visit our website at www.npwa.org. If you want to learn more about NPWA, please attend any of our regularly scheduled Board of Directors meetings. Meetings are held on the fourth Tuesday of every month at the Authority's operations center located at 300 Forty Foot Road, near the intersection of Forty Foot and Allentown Roads in Towamencin Township. Meetings begin at 7:30 p.m.

Sources of Water

In 2019, approximately 89% of the water that NPWA delivered to its customers was treated surface water from the Forest Park Water Treatment Plant (FPWTP) located in Chalfont. The source of water that is treated at Forest Park Water is the North Branch Neshaminy Creek. The North Branch Neshaminy Creek originates as a small stream near Route 413 in Central Bucks County. The creek flows into Lake Galena, which is the reservoir for Forest Park Water. Water released from Lake Galena continues to flow down the Neshaminy Creek to the FPWTP, in Chalfont, Pennsylvania. Due to the high demand of water from Forest Park, water is pumped from the Delaware River at Point Pleasant and diverted into the North Branch Neshaminy Creek near Gardenville, Pennsylvania. This diversion controls the level of Lake Galena for recreational purposes, ensures a sufficient drinking water supply, and maintains base flow in the stream.

The remaining 11% of water came from 12 groundwater supply wells that NPWA operates. These wells are located throughout our service territory, in Bucks and Montgomery Counties. The water from these wells is chlorinated before it is delivered to our customers' homes.

PEOPLE WITH SPECIAL HEALTH CONCERNS

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. United States Environmental Protection Agency (US EPA) / Centers for Disease Control (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* at **1-800-426-4791.**

MONITORING YOUR WATER

NPWA routinely monitors for contaminants in your drinking water according to federal and state laws. The following tables show the results of our monitoring for the period of **January 1 to December 31, 2019**. As you review these tables, you will notice that NPWA water meets or exceeds all primary state and federal Drinking Water

Act standards. The US EPA and PA DEP allow 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 is from prior years in accordance with the *Safe Drinking Water Act*. The date has been noted on the sampling results table.



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SOURCE WATER ASSESSMENT

A Source Water Assessment of the North Branch Neshaminy Creek Intake, which supplies water to the Forest Park Water Treatment Plant, was completed and prepared by Spotts, Steven & McCoy, Inc. for the PA DEP. The Assessment found that the North Branch Neshaminy Creek Intake is potentially most susceptible to point sources of pollution from auto repair shops, wastewater treatment plants, boating, quarries, on-lot septic systems and gas stations. Non-point sources of potential contamination include major transportation corridors and runoff from areas of urban development, livestock farming, and industrial parks. The most serious potential sources are related to accidental release of a variety of materials along transportation corridors and high nutrients from Lake Galena. FPWTP has the capability to treat a wide array of contaminants and minimize any negative impacts from such sources. Regular and frequent monitoring of the water supply allows us to identify any concerns and remediate any problems in a timely manner. Contingency plans and emergency response plans are in place to deal with any release of contaminants or accidental occurrences that could compromise the integrity of your drinking water quality.

A Source Water Assessment of our groundwater sources was completed by the PA DEP. Most of the land that surrounds NPWA wells is highly developed commercial and residential areas, with a small amount of forested or agricultural/undeveloped land. The Assessment found that our groundwater sources are potentially most susceptible to transportation corridors, residential and agricultural activities, railroad transportation, auto repair shops, machine/metal working businesses, National Priorities List (NPL) sites, industrial wastewater disposal, golf courses, a recycling center and a print shop. Summary reports of the Assessments are available on the Source Water Assessment Summary Reports eLibrary web page: http://www.elibrary.dep.state.pa.us/dsweb/View/Collection-10045. Complete reports were distributed to municipalities, water suppliers, local planning agencies and PA DEP offices. Copies of the complete reports are available for review at the PA DEP Southeast Regional Office, Records Management Unit at (484)250-5910.

North Penn Water Authority serves over 35,000 customers in the following municipalities:

Hatfield Borough Lansdale Borough Sellersville Borough Souderton Borough Franconia Township Hatfield Township Lower Salford Township Skippack Township Towamencin Township

and portions of:
Hilltown Township
Montgomery Township
New Britain Borough
New Britain Township

Salford Township
Upper Gwynedd Township
Upper Salford Township
West Rockhill Township
Worcester Township

DEFINITIONS

In the following tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

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

- Minimum Residual Disinfectant Level (MinRDL): The minimum level of residual disinfectant required at the entry point to the distribution system.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- NTU: Nephelometric turbidity unit is a measure of the clarity of water.
- N/A: Not Applicable
- pCi/L: picocuries per liter (a measure of radioactivity)
- \bullet ppm: parts per million, or milligrams per liter (mg/L) 1 ppm corresponds to 1 second in 11.5 days
- \bullet ppb: parts per billion, or micrograms per liter (µg/L) 1 ppb corresponds to 1 second in 32 years
- ppt: parts per trillion, or nanograms per liter (ng/L) 1 ppt corresponds to 1 second in 32,000 years

DETECTED SAMPLE RESULTS

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CHEMICAL CONTAMINANTS									
Contaminant	MCL	MCLG	Highest Level Detected	Range of Detections	Units	Sample Date	Violation Yes/No	Sources of Contamination	
Bromate	10	0	3.6	2.0 – 3.6	ppb	2019	No	By-product of drinking water disinfection	
Arsenic	10	0	5.6	0 – 5.6	ppb	2018 and 2019	No	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes	
Barium	2	2	0.51	0.014 – 0.51	ppm	2018 and 2019	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits	
Fluoride	2	2	0.106	0 – 0.106	ppm	2018 and 2019	No	Erosion of natural deposits; Discharge from fertilizer and aluminum factories	
Nitrate	10	10	4.81	0 – 4.81	ppm	2019	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	
Tetrachloroethylene	5	0	0.934	0 – 0.934	ppb	2019	No	Discharge from factories and dry cleaners	
Haloacetic Acids (HAAs) ^b	60	N/A	13.4°	3.86 – 21.6	ppb	2019	No	By-product of drinking water disinfection	
Total Trihalomethanes (TTHMs) ^c	80	N/A	35.1°	14.5 – 61.1	ppb	2019	No	By-product of drinking water chlorination	
Alpha Emitters	15	0	5.68	0.15 – 5.68	pCi/L	2017	No	Erosion of natural deposits	
Combined Radium	5	0	1.18	0.06 – 1.18	pCi/L	2017	No	Erosion of natural deposits	
Uranium	30	0	5.50	1.44 – 5.50	μg/L	2017	No	Erosion of natural deposits	

^o Compliance is based on a running annual average of quarterly results. This value represents the highest running annual average result, not a single sample result.

^cTTHMs = sum of - bromoform, bromodichloromethane, chlorodibromomethane and chloroform

DISTRIBUTION DISINFECTANT RESIDUAL									
Contaminant	MRDL	MRDLG	Highest Monthly Average Result	Range of Monthly Average Results	Units	Sample Date	Violation Yes/No	Sources of Contamination	
Chlorine	4	4	1.07	0.83 - 1.07	ppm	2019	No	Water additive used to control microbes	

As a member of the Partnership for Safe Water's Distribution System Optimization Program (DSOP), our goal is to achieve distribution chlorine residual levels \geq 0.20 mg/L and \leq 4.0 mg/L. In 2019, we accomplished this. 100% of all samples met this goal.

ENTRY POINT DISINFECTANT RESIDUAL									
Contaminant	Minimum Disinfectant Residual Required	Lowest Level Detected	Range of Detections	Units	Sample Date	Violation Yes/No	Sources of Contamination		
Chlorine – NPWA Wells	0.40	0.03*	0.03 – 1.36	ppm	2019	No	Water additive used to control microbes		
Chlorine – FPWTP	0.20	1.01	1.01 – 1.70	ppm	2019	No	Water additive used to control microbes		

^{*}Chlorine levels did not drop below the minimum residual level required for more than 4 hours.

^b HAAs = sum of - dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, and trichloroacetic acid

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TURBIDITY AT FOREST PARK WATER TREATMENT PLANT (FPWTP)

Contaminant	MCL	MCLG	Highest Level Detected	Range of Detections	Sample Date	Violation Yes/No	Sources of Contamination	
Turbidity	TT=1 NTU for a single measurement	N/A	0.07	0.03 – 0.07	2019	No		
	TT= at least 95% of monthly samples less than or equal to 0.3 NTU	N/A	100%	N/A	2019	No	Soil runoff	

Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. As a member of the Partnership for Safe Drinking Water, our goal is to achieve <0.1 NTU. In 2019, we accomplished this. 100% of all samples were <0.1 NTU.

LEAD AND COPPER - Tested at Customers' Taps

Contaminant	Action Level (AL)	MCLG	90th Percentile Value	Units	# of Samples Above AL	Sample Date	Violation Yes/No	Sources of Contamination
Lead	90% of homes must test less than 15 ppb	0	1.9	ppb	0 out of 31	2019	No	Corrosion of household plumbing systems
Copper	90% of homes must test less than 1.3 ppm	1.3	0.356	ppm	0 out of 31	2019	No	Corrosion of household plumbing systems

UNREGULATED CONTAMINANT MONITORING:

Unregulated contaminants are those, for which the United States Environmental Protection Agency (US EPA) has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. In 2019, Unregulated Contaminant Monitoring Rule 4 (UCMR 4) sampling was conducted at the Forest Park Water Treatment Plant (FPWTP), NPWA wells and distribution system. UCMR 4 sampling is ongoing and will continue through July 2020. The results that NPWA has received as of March 2020 are presented below. Results received after March 2020 will be included in next year's Water Quality Report. If you are interested in the results prior to the publishing of our Water Quality Report in 2021, please contact Lindsay Hughes, Community Relations Coordinator, at (215) 855-3617. For more information concerning Unregulated Contaminant Monitoring, visit these websites: https://www.epa.gov/dwucmr or https://drinktap.org/Water-Info/Whats-in-My-Water/Unregulated-Contaminant-Monitoring-Rule-UCMR

UCMR 4 - Entry Point Samples - NPWA Wells and Forest Park Water Treatment Plant (FPWTP)

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Contaminant	Average Level Detected	Range of Detections	Units	Sample Date	Sources of Contamination
Manganese	18.4	0 – 57.8	ppb	2019 and 2020	Naturally-occurring element; commercially available in combination with other elements and minerals; used in steel production, fertilizer, batteries and fireworks; drinking water and wastewater treatment chemical; essential nutrient

*Manganese has a lifetime health advisory (HA) of 300 ppb

Manganese is a naturally occurring mineral found in rocks, soil, groundwater, and surface water. Manganese is necessary for proper nutrition and is part of a healthy diet, but can have undesirable effects on certain sensitive populations at elevated concentrations. The US EPA and PA DEP have set an aesthetics-based Secondary Maximum Contaminant Level (SMCL) for manganese of 50 µg/L (micrograms per liter), or 50 parts per billion (ppb). Secondary standards are non-mandatory guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health. The US EPA has established a lifetime health advisory (HA) level of 300 ppb for manganese. During NPWA's UCMR 4 monitoring, one well had a result over the SMCL. This well has been shut down and is currently being evaluated.

UCMR 4 – Distribution Samples

	aci in a bistribution samples									
Co	ontaminant	Average Level Detected	Range of Detections	Units	Sample Date	Sources of Contamination				
НА	A6Br°	6.13	3.26 – 10.2	ppb	2019 and 2020	By-product of drinking water disinfection				
HA	√A9 ^b	17.6	10.4 – 27.9	ppb	2019 and 2020	By-product of drinking water disinfection				

HAA6Br = sum of - bromochloroacetic acid, bromodichloroacetic acid, dibromoacetic acid, chlorodibromoacetic acid, monobromoacetic acid, and tribromoacetic acid

b HAA9 = sum of - bromochloroacetic acid, bromodichloroacetic acid, chlorodibromoacetic acid, dibromoacetic acid, dichloroacetic acid, monobromoacetic acid, monochloroacetic acid, tribromoacetic acid, and trichloroacetic acid

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Unregulated Contaminants NOT DETECTED

alpha-Hexachlorocyclohexane

Chlorpyrifos Dimethipin 1-Butanol 2-Methoxyethanol 2-Propen-1-ol Germanium Butylated Hydroxyanisole

o-Toluidine Quinoline Ethoprop Oxyfluorfen

Profenofos Tebuconazole Total Permethrin (cis-, trans-)

Tribufos

PERFLUORINATED COMPOUNDS (PFCS):

There are some contaminants for which the US EPA develops health advisories (HA), but has not yet established regulatory limits for compliance by public water suppliers. The health advisories provide technical information on health effects. Perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) are included in those contaminants that have no regulatory limit but are associated with a health advisory. Currently, PFOA and PFOS have a combined health advisory level of 70 ppt. These chemicals are among a family of manmade chemicals that have been used for decades as ingredients to make products that resist heat, oil, stains, grease and water, and are used in foam products for firefighting. Due to recent health concerns in the region, Forest Park Water Treatment Plant voluntarily elected to monitor water at the plant for PFCs.

PFOA/PFOS at Forest	Park Water	Treatment Pla	ant (FPWTP)
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Contaminant	Average Level Detected	Range of Detections	Units	Sample Date
Perfluorooctanoic acid (PFOA)	3.1	2.1 – 4.2	ppt	2019
Perfluorooctanesulfonic acid (PFOS)	1.2 (less than reporting limit of 2.0)	0 – 2.5	ppt	2019
PFOA + PFOS*	4.3	2.1 – 6.6	ppt	2019

*PFOA + PFOS have a combined health advisory (HA) level of 70 ppt

Perfluorinated Compounds NOT DETECTED at Forest Park Water

perfluorobutanesulfonic acid (PFBS) perfluoroheptanoic acid (PFHpA) perfluorohexanesulfonic acid (PFHxS)

perfluorononanoic acid (PFNA)