



A Middlesex Water Company Affiliate

ANNUAL WATER QUALITY REPORT

Celebrating 55 Years of Quality Service



This document is a report on water quality for communities served by Tidewater Utilities, Inc. during the year 2019, including Southern Shores Water Company, LLC.

To contact us, please call
Customer Service & Billing Inquiries:
1-877-720-9272

Dover Office: 1-302-734-7500

Visit our website at TUIWater.com

Tidewater Utilities, Inc.
1100 South Little Creek Road
Dover, DE 19901

This report contains important information about your drinking water. If you do not understand it, please have someone translate it for you, or call: (877) 720-9272 to speak with someone regarding this report in Spanish.

Este reporte contiene información muy importante con relación a su agua potable. Si no lo entiende bien, hable con alguien que se lo pueda traducir ó llame al Department de Servicios al Cliente al telefono (877) 720-9272, para hablar con un representante en español sobre este reporte.

Get To Know Your Drinking Water

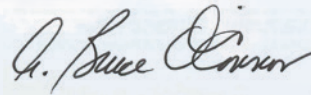
Dear Customer,

Each year, Tidewater Utilities, Inc. provides its customers with a report on water quality for the prior year. We encourage you to read this report to learn about the results of testing conducted and water samples collected during 2019.

This report has been prepared to familiarize you with the characteristics of the water system, including your source of supply, the quality of treated water, substances present in the water, and the maximum levels of those compounds permitted by state or federal regulations. We hope this report demonstrates Tidewater's commitment to continually improve the water treatment process and protect our water resources.

If you have any questions about this report or would like more information about your water quality, please call Tidewater Utilities at (877)720-9272 or you may contact the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline at (800) 426-4791 for additional information about drinking water regulatory programs.

We invite you to become involved in decisions affecting your drinking water by sharing your comments and concerns. Please call or write: Mr. Bruce O'Connor, President, Tidewater Utilities, Inc., 1100 South Little Creek Road, Dover, DE 19901. (877) 720-9272. Thank you for allowing us the opportunity to serve you.



Devoted to Providing a Safe and Dependable Water Supply

Tidewater Utilities, Inc., together with its wholly-owned subsidiary, Southern Shores, produces and serves high quality water to over 100,000 Delawareans in 415 residential communities and commercial establishments in New Castle, Kent, and Sussex Counties. Since 1964 we have planned, developed, operated and maintained our water systems in order to provide clean and safe drinking water for our customers. Where appropriate, we continue to interconnect individual systems to form regional systems as a way to leverage operational efficiency. Several of our 2019 accomplishments are shared below:

- Tidewater Utilities delivered 2.4 billion gallons of water through its 86 production plants with 177 wells that vary in pumping capacity from 46,000 gallons per day (gpd) to 4.4 million gpd. Water is transported to our customers through 765 miles of transmission and distribution mains. Tidewater maintains 47 water storage tanks, with an aggregate capacity of 7.9 million gallons in our 55 active water districts
- Over 4,300 fire hydrants were inspected and maintained in 2019 supporting fire protection efforts to each community. Tidewater invested over \$10.4 million in capital expenditures in 2019 to update our water systems, upgrade treatment and improve its water distribution infrastructure.

- Tidewater continues to analyze coliform and E.Coli in its Microbiology Laboratory, which is certified through the Delaware Department of Health and Social Services-Division of Public Lab Certification Program. The presence of an in-house laboratory enables compliance with the Safe Water Drinking Act and enables us to conduct testing at any time to ensure that water provided by Tidewater meets all State and Federal Regulations.
- During 2019, water quality staff collected over 3,800 water samples which were lab tested.
- Tidewater was voted Delaware's Best Tasting Water by the Delaware Rural Water Association during the 2019 Annual Water and Wastewater Operators Expo held in October.

Together with our parent company, Middlesex Water Company, we continue to be completely committed to our customers in the water, wastewater, contract services, public/private partnership and related services arena. Our phone number is 877-720-9272 and our website is TUIWater.com



Special Notes Regarding COVID-19

While this report addresses water quality during 2019, we wanted to include information related to the current 2020 COVID-19 pandemic. Throughout the public health crisis, our dedicated team of essential employees continued to work to provide reliable water service critically important for washing hands and maintaining overall appropriate personal hygiene. According to the World Health Organization and the American Water Works Association, treatment methods like those used by our companies are sufficient to disinfect water for numerous contaminants, including COVID-19. Our crews continued to maintain treatment plants and water quality, repair main breaks and respond to customer calls all while maintaining appropriate safety measures and precautions. We also moved forward with important construction projects designed to enhance the reliability and resiliency of our water treatment and distribution systems.

When buildings and facilities are left vacant for an extended period of time, as during the pandemic, we recommend that building owners and managers seek guidance on how to prepare their facility plumbing for reoccupation. Water that has been sitting idle within plumbing systems of unoccupied or partially occupied buildings and facilities could harbor microbial and other inorganic matter which, over time of non-use, can become a health issue. MWC recommends reviewing the following resources:

The Centers for Disease Control and Prevention (CDC): “Guidance for Building Water Systems” – <https://www.cdc.gov/coronavirus/2019-ncov/php/building-water-system.html>

The Environmental Science Policy & Research Institute: “Building Water Quality and Coronavirus: Flushing Guidance for Periods of Low or No Use” – https://www.rwater.com/media/4664/final_coronavirus-building-flushing-guidance-20200403.pdf

Keep Pharmaceuticals and Personal Care Products (PPCPs) Out of Our Drinking Water

Where do PPCPs come from?

Pharmaceuticals and personal care products, known in the water industry as PPCPs, are a group of compounds consisting of human and veterinary drugs (prescription or over the counter) and consumer products, such as fragrance, lotions, sun-screens, house cleaning products, and others. PPCPs can be introduced into the environment in several ways, including:

- Flushing unused medications down the toilet or sink.
- Rinsing personal hygiene and household cleaning products down the drain.
- Excreting unabsorbed medications into the sewage system.
- Farm animals excreting veterinary drugs, including hormones and antibiotics, into fields where they run off into lakes and streams.
- Commercial improper disposal methods.

For Proper Disposal of PPCPs, the following Federal Guidelines are provided:

- Do not flush prescription drugs down the toilet or drain unless the label or accompanying patient information specifically instructs you to do so. For information on drugs that should be flushed visit the FDA’s website at: www.fda.gov
- To dispose of prescription drugs not labeled to be flushed, you may be able to take advantage of community drug take-back programs or other programs that collect drugs at a central location for proper disposal. Call your city or county government’s household trash and recycling service and ask if a drug take-back program is available in your community.

If a drug take-back or collection program is not available:

1. Take your prescription drugs out of their original containers.
2. Mix drugs with an undesirable substance, such as cat litter or used coffee grounds
3. Put the mixture into a disposable container with a lid, such as an empty margarine tub, or sealable bag and place in the trash.

The Source of Our Water Supply

Tidewater Utilities, Inc. provides water service to over 45,000 retail customers for residential, commercial and fire protection purposes in Kent, Sussex and New Castle Counties, Delaware. Tidewater relies exclusively on groundwater wells, which are less susceptible to drought than surface water supplies. Many of these systems serve from 5 to 2,000 customers and even more where systems have been interconnected.

The Tidewater systems do not have one central treatment facility, but many of its water systems have interconnected transmission systems. The others are independent “satellite” systems. One of the Company’s goals continues to be the consolidation of geographically independent systems into several regionally integrated networks.

Source Water Assessment Program (SWAP)

The 1996 amendments to the Safe Drinking Water Act (SDWA) require that source water assessments be performed for all sources of public drinking water in each state. Because of this, each state was required to develop a Source Water Assessment Plan (SWAP). The State of Delaware’s SWAP was developed and approved by the United States Environmental Protection Agency in October 1999.

This assessment has been performed using the methods specified in the State of Delaware’s Source Water Assessment Plan. The assessment consists of these four critical steps:

1. Delineation of source water areas;
2. Determination of the vulnerability of a well or intake to contamination;
3. Identification of existing and potential sources of contamination; and
4. Determination of the susceptibility of the source water area to contamination.

Susceptibility Determination

The key part of a source water assessment is the determination of the likelihood that a particular public water supply system will capture contaminants at concentrations of concern. This analysis, termed susceptibility determination, combines the source water protection area delineation, the vulnerability determination for the wells, the contaminant source inventory, and the water quality information to yield a relative susceptibility for the public water system. Each individual water source is rated for each of the eight contaminant categories on a scale ranging from no susceptibility, low, medium to high, having been documented as having exceeded drinking water standards.

The table for each community system can be found directly under Water Quality results for that system.

Susceptibility Chart Definitions

Other Inorganics – Mineral-based, man-made and naturally occurring, compounds such as fluoride and chloride.

Metals – A chemical element, may also be found as a free element in nature, such as iron and manganese.

Nutrients – Compounds such as phosphorus and nitrogen that aid in the growth of organisms.

Other Organics – Chemical compounds containing carbon such as PCE and TCE.

Pathogens – Organisms such as bacteria and viruses.

Pesticides – Man-made chemicals used to control pests and weeds such as Atrazine.

Petroleum Hydrocarbons – Primary constituents in oil, gasoline, diesel, and a variety of solvents.

Polychlorinated Biphenyls (PCB) – Man-made, organic chemicals used in industrial and commercial applications.

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 to 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 as frequencies and concentrations above allowable levels.

The Division of Public Health in conjunction with the Department of Natural Resources and Environmental Control has conducted source water assessments for nearly all community water systems in the state. Contact Tidewater Utilities at (877) 720-9272 regarding availability and how to obtain a copy of this assessment. You may also review this at <http://delawaresourcewater.org/assessments>.

The Water Treatment Process

To provide you with quality drinking water, Tidewater utilizes the most reliable treatment techniques for each of its water sources. These treatment methods are used to eliminate or minimize the effects of contaminants that may be present in source waters. Water quality is monitored at each wellfield and throughout the distribution system to determine that state and federal primary water quality standards are met.

Groundwater from our wells first passes through layers of soil, sand and gravel, which act as a natural filter. Groundwater comes from an underground source of water known as an aquifer. These groundwater supplies are disinfected with chlorine to destroy bacteria that may be present and protect against microbial contaminants before being pumped into the distribution system. We monitor the level of this additive daily to ensure the proper dosage is being added. In some cases, pH correction and filtration are utilized.

At Tidewater Utilities, our staff conducts thousands of water tests each year to assure that the required level of drinking water quality is maintained. Samples of treated and untreated water are taken regularly to assure quality that complies with state and federal standards for quality and safety.

Why There May Be Contaminants in the Country's Water Supply

Sources of drinking water in the United States (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over 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 animal or human activity. Contaminants that may be present in source waters include:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, livestock and wildlife.

Inorganic contaminant Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.

Organic contaminants, including natural, synthetic and volatile organic chemicals, which are by-products of nature and industrial processes and petroleum production, and can also come from gas stations, storm water runoff and septic systems.

Radioactive contaminants, which can be man-made and naturally occurring, or be the result of oil and gas production and mining activities.

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 at (800) 426-4791.

In order to ensure that tap water is safe to drink, the EPA and the State Division of Public Health (DPH) prescribe 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. DPH also provides monitoring schedules and establishes sampling requirements for water utilities in order to maintain compliance with the Safe Drinking Water Act monitoring requirements.

Required Additional Health Information

Special Considerations Regarding Children, Pregnant Women, Nursing Mothers, and Others

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. Tidewater 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 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 at www.epa.gov/safewater/lead.

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, this 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.

A Word of Caution

Our treatment systems are designed and operated to produce water that meets all state and federal standards. Many substances and microscopic organisms found in water may be a concern if they occur at high concentrations. For some contaminants, MCL levels have not been set because the EPA has not determined at what level they pose a public health risk. This is often because a reliable detection method is unavailable and/or because the contaminant is rarely found in treated water. Some naturally occurring organisms commonly found in the natural water supplies may not be eliminated during the treatment process. This means that even a well-run system may contain low levels of microscopic organisms. The levels, however, are normally of little concern to healthy individuals. It should be noted, however, that under certain circumstances, these organisms might amplify to dangerous levels within a customer's own water supply system. All customers, including residential, commercial and industrial customers, and other large facilities such as schools, hospitals and hotels/motels, should follow appropriate procedures for maintaining their own internal plumbing systems and appliances. If you have any concerns about these matters, please call the EPA Safe Drinking Water Hotline a 1-800-426-4791.

For Your Safety – A Message for People with Compromised Immune Systems

Although our drinking water meets all state and federal regulations, 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 pathogens are available from the EPA Safe Drinking Water Hotline at 1-800 426-4791.

Homeowner Association Contacts

In an effort to assist each community's needs and keep them informed of changes as they occur, Tidewater maintains a listing of all communities with Homeowner Associations throughout the State. If your community has a Homeowner's Association, or if your Association members have changed, please let us know so we can update our records. Call (302) 734-7500 ext. 1001 or email us at: info@tuiwater.com.

PLEASE SHARE THIS REPORT WITH OTHERS.

Landlords, community managers, businesses and schools are encouraged to share this Water Quality Report with all water consumers at their locations.



Sign up for DIRECTAlert!

We encourage you to update your contact information through our DIRECTAlert system.

Sign-up today through our website or contact our customer service department at 1-800-549-3802.

Understanding Your Community's Water Quality Report

What the Numbers Mean to You

The table shows the results of our monitoring during 2019. The EPA requires monitoring of numerous drinking water contaminants. Those listed are the only contaminants detected. For a complete list of monitored contaminants, contact Tidewater Utilities at (877) 720-9272. 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.

Definitions & Abbreviations used below:

Primary Standards: Standards which relate to public health.

Secondary Standards: Standards which are non-health related.

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 a margin of safety.

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.

SMCL: Secondary Maximum Contaminant Level.

MRDL: Maximum Residual Disinfectant Level. 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.

MRDLG: Maximum Residual Disinfectant Level Goal. 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.

PPB: Parts per Billion. One PPB corresponds to one penny in 10 million.

PPM: Parts per Million. One PPM corresponds to one penny in 10 thousand.

N/A: Not Applicable.

pCi/l: Picocuries per Liter. A measure of radioactivity in water.

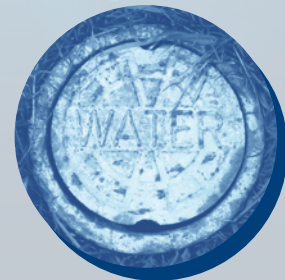
std: Standard Units.

RUL: Recommended Upper Limit.

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

<: Less Than.

ND: None detectable at testing limits.



Tidewater Utilities, Inc. 2019 Water Quality Report Index

To review your water quality report, please refer to the page specific to your community and corresponding pump district.

COMMUNITY	PWSID	PUMP DISTRICT	AQUIFER	PAGE
American Discount Liquors	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Angola by the Bay	DE0000248	Angola	Columbia	14
Angola District	DE0000248	Angola	Columbia	14
Angola Estates	DE0000248	Angola	Columbia	14
Appoquin Farms	DE00A0376	South East	Mount Laurel	37
Arnell Creek	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Arrington Woods	DE00A0837	Bayside	Columbia	15
Asbury Chase	DE00A0334	East NCC	Mount Laurel	23
Ashby's Place	DE00A0334	East NCC	Mount Laurel	23
Aspen Meadows	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Avon Park	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Aydolette Estates	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Back Creek	DE00A0347	North West	Magothy/Potomac	32
Banksville Acres	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bay Colony	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bay Crossing	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Bay Forest Club	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bay Front	DE0000248	Angola	Columbia	14
Bay Pines	DE0000248	Angola	Columbia	14
Bay Pointe (Herring Pointe)	DE0000248	Angola	Columbia	14
Bay Ridge Woods	DE0000248	Angola	Columbia	14
Bay Vista	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Bay Vista South	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Baylis Estates	DE0000271	The Meadows	Columbia/Pocomoke	40
Baymont Farm	DE00A0334	East NCC	Mount Laurel	23
Bayshore Subdivision	DE0000271	The Meadows	Columbia/Pocomoke	40
Bayside	DE00A0837	Bayside	Columbia	15
Bayside District	DE00A0837	Bayside	Columbia	15
Bayside Sea Grass Bend	DE00A0837	Bayside	Columbia	15
Bayview Estates	DE00A0334	East NCC	Mount Laurel	23
Baywood Greens	DE0000271	The Meadows	Columbia/Pocomoke	40
Beachaven	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Beachfield	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Bear Trap	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Beechwood	DE0000546	Lakeland/Beechwood	Piney Point/Cheswold/Columbia	29
Belle Terre	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Bergmont Woods	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Bethany Bay	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bethany Breeze	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bethany Meadows	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bethany's Choice	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Bishop's Landing	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Blue Heron Estates	DE00A0680	Blue Heron Estates	Columbia	16
Bohemia Mill Pond	DE00A0347	North West	Magothy/Potomac	32
Bowden Acres	DE0000271	The Meadows	Columbia/Pocomoke	40
Bowerset	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Boyd's Corner	DE00A0334	East NCC	Mount Laurel	23
Breakwater Estates	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Breakwater Estates of Lewes	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Brenford Station	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Brenford Woods	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Briarcliffe	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Briar Park	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Briarwood Estates	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Bridgeville District	DE0000949	Bridgeville	Frederica	17
Bridgeville Mall	DE0000155	Bridgeville Mall	Columbia Gp-Manokin/Columbia Gp-Pocomoke	17
Bridle Ridge	DE0000221	Bethany Bay	Columbia/Pocomoke	16
Brighton Place	DE0000004	Garrison's Lake	Columbia/Cheswold	26
Broadkiln	DE0000238	Broadkiln	Columbia	18
Brookfield	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Cadbury at Lewes	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Camden District	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Camelot	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Canterbury Crossing	DE00A0348	Canterbury Crossing	Federalsburg/Frederica	19
Captain's Grant	DE0000271	The Meadows	Columbia/Pocomoke	40
Carillon Square	DE0000271	The Meadows	Columbia/Pocomoke	40
Carillon Woods	DE0000271	The Meadows	Columbia/Pocomoke	40
Carlisle Village	DE00A0684	West Dover	Cheswold/Piney Point/Columbia	42

Tidewater Utilities, Inc. 2019 Water Quality Report Index

To review your water quality report, please refer to the page specific to your community and corresponding pump district.

COMMUNITY	PWSID	PUMP DISTRICT	AQUIFER	PAGE
Carpenter's Crossing	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Cedar Cove	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Cedar Creek Estates	DE00A0404	South Shores	Frederica	37
Cedar Valley	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Central DE Business Park	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Champions Club at Jonathan's Landing	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Chapel Green	DE0000248	Angola	Columbia	14
Chelsea Villa	DE0000118	Coopers	Frederica/Piney Point	20
Chesapeake Meadows	DE00A0347	North West	Magothy/Potomac	32
Cheswold Fire Company	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Cheswold Village	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Chimney Hills	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Clearbrooke Estates	DE00A0326	Clearbrooke	Columbia/Chesapeake	19
Clearwater	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Coastal Club	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Colonial East	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Colonial Oaks	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Community Bank Delaware	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Coopers Farm	DE0000118	Coopers	Frederica/Piney Point	20
Cottages on White's Creek	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Country Club Village	DE00A0679	Country Club Village	Columbia	20
Country Glen	DE0000949	Bridgeville	Frederica	17
Country Grove	DE0020020	Country Grove	Milford	21
Country Homes at Summit	DE00A0347	North West	Magothy/Potomac	32
Coursey's Point	DE0020007	Frederica	Frederica	24
Cove on Herring Creek	DE0000248	Angola	Columbia	14
Coventry at Barrington Park	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Covered Bridge Trails	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Covington Chase	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Creeks End	DE0000271	The Meadows	Columbia/Pocomoke	40
Creekside	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Creekside Plaza	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Creekwood	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
DE State Police Troop 7	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Delaware Arthritis	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Delaware Dept. of Trans.	DE0000004	Garrison's Lake	Cheswold/Piney Point	26
Delaware Oyster Farm/Oak Orchard	DE0000271	The Meadows	Columbia/Pocomoke	40
Denton Mills	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Denton Woods	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Dickerson Farms	DE00A0347	North West	Magothy/Potomac	32
Donahoe Estates	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Dover Air Force Base	DE0000579	Dover AFB	Cheswold/Piney Point	22
Dover Meadows	DE00A0767	Dover Meadows	Cheswold	21
Doves Landing	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Drawyers Creek	DE00A0353	Drawyers Creek	Mount Laurel	22
Driftwood Village	DE0000271	The Meadows	Columbia/Pocomoke	40
Eagle Heights	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Eagle Meadows	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Eagle Point	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Eagles Nest	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
East Atlantic Apartments	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
East Service Area	DE00A0334	East NCC	Mount Laurel	23
Ellis Point	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Estates of Fairway Village	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Estates at Sea Chase	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Estates of Wild Quail	DE00A0159	Wild Quail	Piney Point/Columbia	43
Fairview Farms	DE00A0347	North West	Magothy/Potomac	32
Fairway Village	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Fairway Villas	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
Felton District	DE0000124	Camden	Cheswold/Columbia/Federalsburg	18
Ferris Courtyard	DE0000221	Bethany Bay	Columbia/Pocomoke/Manokin	16
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Woodlands of Millsboro	DE00A0279	Woodlands of Millsboro	Columbia	44
Woodlyn Estates	DE0000271	The Meadows	Columbia/Pocomoke	40
Woods at Burton Pond	DE0000248	Angola	Columbia	14
Woods at Carlisle Village	DE00A0684	West Dover	Cheswold/Piney Point/Columbia	42
Woods at Oyster Rock	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Woods at Seaside	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Woods Cove	DE0000991	Rehoboth/Lewes	Columbia/Manokin	35
Woods on Herring Creek	DE0000248	Angola	Columbia	14
Worthington	DE0000004	Garrison's Lake	Cheswold/Piney Point	26

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For definitions and abbreviations, please see page 6.

Angola Pump District (DE0000248)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.124	0.055 – 0.124	Erosion of natural deposits	No
Selenium	ppb	50	50	0.61	ND – 0.61	Erosion of natural deposits	No
Nitrate (Note)	ppm	10	10	7.2	0.4 – 7.2	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	7.31	4.87 – 7.31	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	1.03	ND – 1.03	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.59	0.51 – 1.59	Drinking water treatment	No
RADIOLOGICAL							
Combined Radium 226/228*	pCi/L	5	0	1.18	1.18 – 1.18	Erosion of natural deposits	No
VOLATILE ORGANIC CHEMICALS							
Methyl tert-Butyl Ether	ppb	10	10	1.28	ND – 1.28	Leaching from gas storage tanks	No
SYNTHETIC ORGANIC CHEMICALS							
Benzo(a)pyrene	ppt	200	0	50	ND – 50	Leaching from linings of water storage tanks	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	1.3	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.12	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	44	30 – 60
Alkalinity	ppm	N/A	75	47 – 103
pH	std	6.5 - 8.5	7.07	7.05 – 7.09
Chloride	ppm	250	25	9.6 – 28
Sulfate	ppm	250	5.5	4.4 – 11
Total Hardness	ppm	N/A	16	ND – 23
Total Dissolved Solids	ppm	500	163	112 – 210
Manganese	ppb	50	5	ND – 10
Total Iron	ppb	300	28	ND – 111

*2016 Data.

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 month 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.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	High	High	High	Medium	Low	Medium	High

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Bayside Pump District (DE00A0837)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Nitrate (Note)	ppm	10	10	5.2	1.4 – 5.2	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	1.4	ND – 1.4	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.52	0.50 – 1.52	Drinking water treatment	No
VOLATILE ORGANIC CONTAMINANTS							
Xylenes	ppm	10	10	0.0026	ND – 0.0026	Discharge from chemical factories	No
SYNTHETIC ORGANIC CONTAMINANTS							
2,4-D	ppb	70	70	0.6	ND – 0.6	Discharge from chemical factories	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	1.0	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.325	0	Corrosion of household plumbing	No

ADDITIONAL MONITORING

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
Additional contaminants for which we monitor that are currently not regulated by the EPA							
PFBS	ppt	N/A	N/A	35	20 – 35	Used in the production of Teflon, firefighting foams, cleaners, cosmetic, greases and lubricants, paints, polishes, adhesives and photographic films.	N/A
PFHpA	ppt	N/A	N/A	5.9	3.3 – 5.9	Used in the production of Teflon, firefighting foams, cleaners, cosmetic, greases and lubricants, paints, polishes, adhesives and photographic films.	N/A
PFHxS	ppt	N/A	N/A	38	16 – 38	Used in the production of Teflon, firefighting foams, cleaners, cosmetic, greases and lubricants, paints, polishes, adhesives and photographic films.	N/A
PFHxA	ppt	N/A	N/A	11	5.6 – 11	Used in the production of Teflon, firefighting foams, cleaners, cosmetic, greases and lubricants, paints, polishes, adhesives and photographic films.	N/A
PFOS	ppt	N/A	N/A	19	12 – 19	Used in the production of Teflon, firefighting foams, cleaners, cosmetic, greases and lubricants, paints, polishes, adhesives and photographic films.	N/A
PFOA	ppt	N/A	N/A	16	9.3 – 16	Used in the production of Teflon, firefighting foams, cleaners, cosmetic, greases and lubricants, paints, polishes, adhesives and photographic films.	N/A
Tidewater Utilities, Inc. installed treatment for the removal of these contaminants, sample results for 2020 have been non-detect.							

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	64	55 – 73
Alkalinity	ppm	N/A	90	65 – 114
pH	std	6.5 - 8.5	7.3	7.14 – 7.46
Chloride	ppm	250	18	16 – 19
Sulfate	ppm	250	4.5	3 – 6
Total Dissolved Solids	ppm	500	148	146 – 150

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 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.

*2018 Data

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	High	High	High	High	High	Exceed	High

NS* indicates Not Susceptible

Tidewater Utilities, Inc. • Water Quality Report - 2019
For definitions and abbreviations, please see page 6.

Bethany Bay Pump District (DE000221)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.031	0.02 - 0.031	Erosion of natural deposits	No
Fluoride	ppm	2	2	0.10	ND - 0.10	Erosion of natural deposits	No
Nitrate (Note)	ppm	10	10	5.4	ND - 5.4	Runoff from fertilizer use	No
RADIOLOGICAL							
Combined Radium 226/228	pCi/L	5	0	1.8	1.54 - 1.80	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	36	8.57 - 79	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	37	2.58 - 77	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	3.0	0.52 - 3.0	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	7.2	2	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.117	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	42	33 - 53
Alkalinity	ppm	N/A	95	67 - 155
pH	std	6.5 - 8.5	7.52	7.15 - 7.79
Chloride	ppm	250	33	15 - 78
Sulfate	ppm	250	1.5	ND - 3.2
Total Hardness	ppm	N/A	43	9 - 106
Total Dissolved Solids	ppm	500	240	158 - 368

*2018 Data. **2017 Data.

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 month 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.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	High	High	High	Very High	Low	Exceeds	High

NS* indicates Not Susceptible

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

During the past year we were required to conduct one Level 1 assessment. The Level 1 assessment was completed in September 2019. No corrective actions were required from the Level 1 assessment.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens 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 assessment(s) to identify problems and to correct any problems that were found during these assessments.

Blue Heron Pump District (DE00A0680)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Nitrate	ppm	10	10	2.0	2.0 - 2.0	Runoff from fertilizer use	No
SYNTHETIC ORGANIC CHEMICALS							
Di (2-ethylhexyl) phthalate*	ppb	6	0	0.58	0.58 - 0.58	Discharge from chemical factories	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	5.4	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.287	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	10	10
Alkalinity	ppm	N/A	17	17
Chloride	ppm	250	10	10

*2017 Data. **2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	High	High	High	Low	Low	Low	Low

NS* indicates Not Susceptible

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Bridgeville Pump District (DE0000949)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.30	0.30 – 0.30	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	47	40 – 47	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	21	15.3 – 21	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	2.01	0.35 – 2.01	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.0166	0	Corrosion of household plumbing	No

*2018 Data

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	116	116
Alkalinity	ppm	N/A	255	255
pH	std	6.5 - 8.5	7.68	7.68
Chloride	ppm	250	20	20
Sulfate	ppm	250	0.9	0.9
Total Hardness	ppm	N/A	27	27
Total Dissolved Solids	ppm	500	360	360

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	NS

NS* indicates Not Susceptible

Bridgeville Mall (DE0000155)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.109	0.109 – 0.109	Erosion of natural deposits	No
Nitrate	ppm	10	10	4.5	4.5 – 4.5	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	3.14	3.14 – 3.14	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.56	1.21 – 1.56	Drinking water treatment	No
RADIOLOGICAL							
Combined Radium 226/228*	pCi/L	5	0	1.62	1.62 - 1.62	Erosion of natural deposits	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.070	0	Corrosion of household plumbing	No

*2016 Data. **2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	48	48
Alkalinity	ppm	N/A	78	78
pH	std	6.5 - 8.5	7.45	7.45
Chloride	ppm	250	12	12
Total Hardness	ppm	N/A	13	13
Total Dissolved Solids	ppm	500	154	154

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	Low	High	High	High	High	High	High

NS* indicates Not Susceptible

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Broadkln Beach (DE000238)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.098	0.098 - 0.098	Erosion of natural deposits	No
Selenium	ppb	50	50	0.6	0.6 - 0.6	Erosion of natural deposits	No
Nitrate	ppm	10	10	2.0	2.0 - 2.0	Runoff from fertilizer use	No
DRINKING WATER TREATMENT							
Chlorine	ppm	4.0	N/A	0.65	0.65 - 0.65	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	2.6	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.099	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	30	30
Alkalinity	ppm	N/A	37	37
Chloride	ppm	250	27	27
Sulfate	ppm	250	4	4

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	Low	Low	Very Low	Very Low	Low

NS* indicates Not Susceptible

Camden Pump District (DE0000124)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	ND - 0.10	Erosion of natural deposits	No
Cyanide	ppb	200	200	80	ND - 80	Discharge from metal factories	No
RADIOLOGICAL							
Radium 226/228	pCi/L	5	0	2.06	2.06 - 2.06	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	24	9.9 - 29	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	14	6.6 - 16.3	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	2.38	1.0 - 2.38	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	1.1	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.074	0	Corrosion of household plumbing	No

*2018 Data

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	39	9.67 - 69
Alkalinity	ppm	N/A	143	122 - 181
pH	std	6.5 - 8.5	7.52	7.34 - 7.70
Chloride	ppm	250	5.56	5.01 - 6.18
Sulfate	ppm	250	2.0	ND - 3.69
Total Hardness	ppm	N/A	50	ND - 114
Total Dissolved Solids	ppm	500	212	190 - 244

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Medium	Medium	High	Exceeds	Low	Exceeds	High

NS* indicates Not Susceptible

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Canterbury Crossing Pump District (DE00A0348)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	15.33	15.33 - 15.33	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	7.7	7.7 - 7.7	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.96	1.16 - 1.96	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.0081	0	Corrosion of household plumbing	No

*2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	18	18
Alkalinity	ppm	N/A	165	165
pH	std	6.5 - 8.5	7.56	7.56
Chloride	ppm	250	5.5	5.5
Sulfate	ppm	250	0.9	0.9
Total Dissolved Solids	ppm	500	230	230
Total Hardness	ppm	N/A	84	84

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	NS

NS* indicates Not Susceptible

Clearbrooke Estates Pump District (DE00A0326)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.0717	0.0717 - 0.0717	Erosion of natural deposits	No
Fluoride	ppm	2	2	0.20	0.20 - 0.20	Erosion of natural deposits	No
Nitrate	ppm	10	10	0.50	0.50 - 0.50	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	14.9	14.2 - 14.9	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	5.6	4.9 - 5.6	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.44	0.33 - 1.44	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.020	0	Corrosion of household plumbing	No

*2017 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	56	56
Alkalinity	ppm	N/A	189	189
pH	std	6.5 - 8.5	7.1	7.1
Chloride	ppm	250	14	14
Sulfate	ppm	250	2.6	2.6
Total Hardness	ppm	N/A	47	47
Total Dissolved Solids	ppm	500	328	328
Manganese	ppb	50	22	22

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	Medium	Medium	High	Low	Low	Low	High

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Cooper Farm Pump District (DE0000118)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Arsenic	ppb	10	0	2.79	2.79 – 2.79	Erosion of natural deposits	No	No
Fluoride	ppm	2	2	0.60	0.60 – 0.60	Erosion of natural deposits	No	No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	31	20.35 – 40.2	Byproduct of drinking water disinfection	No	No
Total Haloacetic Acids	ppb	60	N/A	19	12.6 – 24	Byproduct of drinking water disinfection	No	No
Chlorine	ppm	4.0	N/A	1.56	0.34 – 1.56	Drinking water treatment	No	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No	No
Copper	ppm	AL = 1.3	1.3	0.027	0	Corrosion of household plumbing	No	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	144	144
Alkalinity	ppm	N/A	318	318
pH	std	6.5 – 8.5	7.9	7.9
Chloride	ppm	250	8.0	8.0
Sulfate	ppm	250	1.4	1.4
Total Hardness	ppm	N/A	25	25
Total Dissolved Solids	ppm	500	404	404

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	Very Low

NS indicates Not Susceptible*

Country Club Village (DE00A0679)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Nitrate (Note)	ppm	10	10	12.5	4.0 – 12.5	Runoff from fertilizer use	Yes	Yes
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	10	0	Corrosion of household plumbing	No	No
Copper	ppm	AL = 1.3	1.3	0.14	0	Corrosion of household plumbing	No	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	24	24
Alkalinity	ppm	N/A	24	24
Chloride	ppm	ppm	46	39 – 55

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 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.

Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.

In April 2019, there was an issue with the Nitrate treatment. Water samples showed that the amount of nitrate in our drinking water was above the MCL. This resulted in a violation. The issue was resolved and Country Club Village returned to compliance on May 25, 2019.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	Low	Low	High	Low	Low	Low	Low

NS indicates Not Susceptible*

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For definitions and abbreviations, please see page 6.

Country Grove (DE0020020)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.131	0.131 – 0.131	Erosion of natural deposits	No
Nitrate (Note)	ppm	10	10	9.2	ND – 9.2	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	4.57	4.57 – 4.57	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	1.43	1.43 – 1.43	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.61	0.32 – 1.61	Drinking water treatment	No
VOLATILE ORGANIC CONTAMINANTS							
Toluene	ppm	1	1	0.0005	ND – 0.0005	Discharge from petroleum factories	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.012	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	31	31
Alkalinity	ppm	N/A	37.3	37.3
pH	std	6.5 – 8.5	7.57	7.57
Chloride	ppm	250	32	13.2 – 38.2
Sulfate	ppm	250	0.68	ND – 3.5
Total Hardness	ppm	N/A	13	13
Total Dissolved Solids	ppm	500	174	174
Manganese	ppb	50	27	27

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 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. Tidewater Utilities, Inc. installed treatment for the removal of nitrates in October 2019.

No Source Water Assessment exists for this system.

Dover Meadows Pump District (DE00A0767)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.20	0.20 – 0.20	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes*	ppb	80	N/A	17.9	17.9 – 17.9	Byproduct of drinking water disinfection	No
Total Haloacetic Acids*	ppb	60	N/A	10.15	10.15 – 10.15	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.72	0.7 – 1.72	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	1.3	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.058	0	Corrosion of household plumbing	No

*2017 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	74	74
Alkalinity	ppm	N/A	123	123
pH	std	6.5 – 8.5	7.25	7.25
Chloride	ppm	250	7.9	7.9
Sulfate	ppm	250	9	9
Total Dissolved Solids	ppm	500	228	228

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very low	Very low	Very low	Medium	Very low	Very low	Very low	Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Dover Air Force Base (DE000579)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Beryllium	ppb	4	4	0.83	0.83 - 0.83	Discharge from metal refineries	No
Fluoride	ppm	2	2	0.90	0.70 - 0.90	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	36.2	32.5 - 36.2	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	14.5	12.2 - 14.5	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.53	0.82 - 1.53	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	6.0	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.247	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	16	16
Alkalinity	ppm	N/A	151	151
pH	std	6.5 - 8.5	7.6	7.6
Chloride	ppm	250	7.40	6.3 - 8.4
Sulfate	ppm	250	2.00	1.9 - 2.1
Total Hardness	ppm	N/A	101	101
Total Dissolved Solids	ppm	500	218	218
Manganese	ppb	50	18	18

*2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very Low	NS	Low	Low	Low	NS	NS	Low

NS* indicates Not Susceptible

Drawyers Creek Pump District (DE00A0353)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.30	0.30 - 0.30	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	4.9	4.9 - 4.9	Byproduct of drinking water disinfection	No
Haloacetic Acids	ppb	60	N/A	1.02	1.02 - 1.02	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	0.9	0.66 - 0.9	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	0.60	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.383	0	Corrosion of household plumbing	No

*2018 Data

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	59	59
Alkalinity	ppm	N/A	94.5	94.5
pH	std	6.5 - 8.5	7.36	7.36
Chloride	ppm	250	6.1	6.1
Sulfate	ppm	250	20	20
Total Dissolved Solids	ppm	500	144	144

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Very Low	Very Low	Low	NS	NS	NS	Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

East NCC District (DE00A0334)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Arsenic*	ppb	10	0	0.5	ND - 0.5	Erosion of natural deposits	No	No
Barium*	ppm	2	2	0.0796	ND - 0.0796	Erosion of natural deposits	No	No
Chromium*	ppb	100	100	1.8	1.3 - 1.8	Discharge from steel and pulp mills	No	No
Nickel*	ppb	100	100	0.7	ND - 0.7	Occurs naturally in soil	No	No
Fluoride	ppm	2	2	0.33	0.21 - 0.33	Erosion of natural deposits	No	No
Nitrate	ppm	10	10	4.00	ND - 4.0	Runoff from fertilizer use	No	No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	3.7	1.92 - 3.7	Byproduct of drinking water disinfection	No	No
Chlorine	ppm	4.0	N/A	1.63	0.68 - 1.63	Drinking water treatment	No	No
VOLATILE ORGANIC CONTAMINANTS								
Toluene	ppm	1	1	0.00144	ND - 0.00144	Discharge from petroleum factories	No	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No	No
Copper	ppm	AL = 1.3	1.3	0.326	0	Corrosion of household plumbing	No	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	6.41	5.54 - 6.86
Alkalinity	ppm	N/A	105	77 - 119
pH	std	6.5 - 8.5	7.10	6.63 - 7.37
Chloride	ppm	250	8.30	3.9 - 9.4
Sulfate	ppm	250	7.71	3.75 - 12
Iron	ppb	300	170	ND - 324
Total Hardness	ppm	N/A	111	102 - 125
Total Dissolved Solids	ppm	500	165	162 - 168
Manganese*	ppb	50	12.0	ND - 29

*2015 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	Low

NS* indicates Not Susceptible

Fisherman's Village (DE0000309)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Barium*	ppm	2	2	0.0017	0.0017 - 0.0017	Erosion of natural deposits	No	No
Chromium*	ppb	100	100	1.0	1.0 - 1.0	Erosion of natural deposits	No	No
Nickel*	ppb	100	100	1.4	1.4 - 1.4	Occurs naturally in soil	No	No
Selenium*	ppb	50	50	1.8	1.8 - 1.8	Erosion of natural deposits	No	No
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No	No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes*	ppb	80	N/A	18.3	18.3 - 18.3	Byproduct of drinking water disinfection	No	No
Total Haloacetic Acids*	ppb	60	N/A	3.4	3.4 - 3.4	Byproduct of drinking water disinfection	No	No
Chlorine	ppm	4.0	N/A	0.10	0.10 - 0.10	Drinking water treatment	No	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	1.2	0	Corrosion of household plumbing	No	No
Copper	ppm	AL = 1.3	1.3	0.009	0	Corrosion of household plumbing	No	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	41	41
Alkalinity	ppm	N/A	137	137
Chloride	ppm	250	129	129
Sulfate	ppm	250	17	17
Manganese*	ppb	50	76	76

*2017 Data.

No Source Water Assessment exists for this system.

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For definitions and abbreviations, please see page 6.

Forest Grove Pump District (DE0000960)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits		No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	12.4	12.4 - 12.4	Byproduct of drinking water disinfection		No
Total Haloacetic Acids	ppb	60	N/A	7.4	7.4 - 7.4	Byproduct of drinking water disinfection		No
Chlorine	ppm	4.0	N/A	1.81	0.7 - 1.81	Drinking water treatment		No
RADIOACTIVE CONTAMINANTS								
Gross alpha	pCi/L	15	0	8.2	ND - 8.2	Erosion of natural deposits		No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	1.1	0	Corrosion of household plumbing		No
Copper	ppm	AL = 1.3	1.3	0.036	0	Corrosion of household plumbing		No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	116	116
Alkalinity	ppm	N/A	209	209
pH	std	6.5 - 8.5	7.37	7.37
Chloride	ppm	250	6.6	6.6
Total Dissolved Solids	ppm	500	308	308

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	Low	NS	NS	NS	NS

NS indicates Not Susceptible*

Frederica Pump District (DE0020007)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits		No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	33.7	33.7 - 33.7	Byproduct of drinking water disinfection		No
Total Haloacetic Acids	ppb	60	N/A	16.4	16.4 - 16.4	Byproduct of drinking water disinfection		No
Chlorine	ppm	4.0	N/A	1.27	0.80 - 1.27	Drinking water treatment		No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing		No
Copper	ppm	AL = 1.3	1.3	0.0300	0	Corrosion of household plumbing		No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	28	28
Alkalinity	ppm	N/A	185	185
pH	std	6.5 - 8.5	7.5	7.5
Chloride	ppm	250	6.7	6.7
Sulfate	ppm	250	1.4	1.4
Total Hardness	ppm	N/A	81	81
Total Dissolved Solids	ppm	500	234	234

No Source Water Assessment exists for this system.

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For definitions and abbreviations, please see page 6.

Frederick Lodge Pump District (DE0000007)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Nickel*	ppb	100	100	0.7	0.7 - 0.7	Occurs naturally in soil	No
Fluoride	ppm	2	2	0.20	0.20 - 0.20	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	3.31	3.31 - 3.31	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	2.50	2.50 - 2.50	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.27	0.75 - 1.27	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	4	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.27	0	Corrosion of household plumbing	No

*2017 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	74	74
Alkalinity	ppm	N/A	131	131
pH	std	6.5 - 8.5	7.25	7.25
Chloride	ppm	250	4	4
Sulfate	ppm	250	5.3	5.3
Total Dissolved Solids	ppm	500	202	202

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	Low	Very Low	NS	Very Low	Very Low

NS* indicates Not Susceptible

Gander Woods Pump District (DE00A0770)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.0197	0.0197 - 0.0197	Erosion of natural deposits	No
Nitrate	ppm	10	10	1.2	ND - 1.2	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	2.3	2.3 - 2.3	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.36	0.82 - 1.36	Drinking water treatment	No
VOLATILE ORGANIC CHEMICALS							
Methyl tert Butyl Ether	ppb	10	10	4.41	1.88 - 4.41	Leaching from gas storage tanks	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.029	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	54	54
Alkalinity	ppm	N/A	64	64
pH	std	6.5 - 8.5	7.28	7.28
Chloride	ppm	250	50	45.5 - 56
Total Hardness	ppm	N/A	12	12
Total Dissolved Solids	ppm	500	158	158

*2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Medium	Medium	Medium	Low	Low	Low	Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Garrison's Lake Pump District (DE0000004)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Selenium	ppb	50	50	1.55	1.55 - 1.55	Erosion of natural deposits	No
Fluoride	ppm	2	2	0.10	ND - 0.10	Erosion of natural deposits	No
Nitrate (Note)	ppm	10	10	7.9	ND - 7.9	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	9.86	9.29 - 9.86	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	4.77	1.7 - 4.77	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.95	0.46 - 1.95	Drinking water treatment	No
RADIOLOGICAL							
Combined Radium 226/228	pCi/L	5	0	1.07	1.07 - 1.07	Erosion of natural deposits	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	1.40	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.049	0	Corrosion of household plumbing	No

*2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	45	22 - 85
Alkalinity	ppm	N/A	94	67 - 116
pH	std	6.5 - 8.5	7.79	7.66 - 7.95
Chloride	ppm	250	33	5.4 - 55
Sulfate	ppm	250	32	4.0 - 42
Total Hardness	ppm	N/A	37	ND - 73
Total Dissolved Solids	ppm	500	195	156 - 234

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 month 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.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Exceed	High	High	High	High	High	Exceed	High

NS* indicates Not Susceptible

Grant's Way Pump District (DE00A0522)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.0505	0.0505 - 0.0505	Erosion of natural deposits	No
Nickel*	ppb	100	100	0.6	0.6 - 0.6	Occurs naturally in soil	No
Nitrate	ppm	10	10	4.5	4.5 - 4.5	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	2.11	2.11 - 2.11	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.59	0.64 - 1.59	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.010	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	34	34
Alkalinity	ppm	N/A	45	45
pH	std	6.5 - 8.5	7.48	7.48
Chloride	ppm	250	12	12
Total Dissolved Solids	ppm	500	106	106

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	Medium	Medium	Medium	Exceed	Very Low	Exceed	Medium

NS* indicates Not Susceptible

Tidewater Utilities, Inc. • Water Quality Report - 2019
For definitions and abbreviations, please see page 6.

Green Acres Pump District (DE00A0327)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.30	0.30 - 0.30	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes*	ppb	80	N/A	19.3	19.3 - 19.3	Byproduct of drinking water disinfection	No
Total Haloacetic Acids*	ppb	60	N/A	5.94	5.94 - 5.94	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	2.14	0.80 - 2.14	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.008	0	Corrosion of household plumbing	No

*2017 Data. **2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	93	93
Alkalinity	ppm	N/A	220	220
pH	std	6.5 - 8.5	7.88	7.88
Chloride	ppm	250	18	18
Sulfate	ppm	250	3.8	3.8
Total Hardness	ppm	N/A	31	31
Total Dissolved Solids	ppm	500	316	316

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Very Low	Very Low	Low	NS	NS	NS	Low

NS* indicates Not Susceptible

Hunters Mill Estates Pump District (DE0000220)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.159	0.159 - 0.159	Erosion of natural deposits	No
Selenium*	ppb	50	50	1.15	1.15 - 1.15	Erosion of natural deposits	No
Nitrate (Note)	ppm	10	10	6.1	6.1 - 6.1	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	7.35	7.35 - 7.35	Byproduct of drinking water disinfection	No
Haloacetic Acids	ppb	60	N/A	1.05	1.05 - 1.05	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.32	0.70 - 1.32	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.028	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	34	34
Alkalinity	ppm	N/A	55	55
pH	std	6.5 - 8.5	7.28	7.28
Chloride	ppm	250	17	17
Sulfate	ppm	250	20	20
Total Hardness	ppm	N/A	29	29
Total Dissolved Solids	ppm	500	142	142

*2017 Data. **2018 Data.

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 month 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.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Medium	Medium	Medium	Very Low	Very Low	Very Low	Very Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Hunters Pointe Pump District (DE0000104)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppb	2	2	0.10	0.10 - 0.10	Occurs Naturally in soil	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	38.3	38.3 - 38.3	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	15.4	15.4 - 15.4	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.24	0.80 - 1.24	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	1.5	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.013	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	29	29
Alkalinity	ppm	N/A	143	143
pH	std	6.5 - 8.5	7.78	7.78
Chloride	ppm	250	6.9	6.9
Sulfate	ppm	250	3.4	3.4
Total Hardness	ppm	N/A	75	75
Total Dissolved Solids	ppm	500	204	204

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	Very Low

NS indicates Not Susceptible*

Indian River Acres Pump District (DE0000227)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.0345	0.0345 - 0.0345	Erosion of natural deposits	No
Chromium*	ppb	100	100	0.7	0.7 - 0.7	Discharge from steel and pulp mills	No
Nickel*	ppb	100	100	1.0	1.0 - 1.0	Occurs naturally in soil	No
Nitrate (Note)	ppm	10	10	5.0	5.0 - 5.0	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	13.5	13.5 - 13.5	Byproduct of drinking water disinfection	No
Haloacetic Acids	ppb	60	N/A	1.86	1.86 - 1.86	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	2.33	0.68 - 2.33	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	0.7	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.027	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	39	39
Alkalinity	ppm	N/A	59	59
pH	std	6.5 - 8.5	7.63	7.63
Chloride	ppm	250	16	16
Sulfate	ppm	250	3.7	3.7
Total Hardness	ppm	N/A	13	13
Total Dissolved Solids	ppm	500	134	134
Manganese*	ppb	50	0.8	0.8

*2015 Data.

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 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.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Low	Low	High	Low	Low	Low	High

NS indicates Not Susceptible*

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For definitions and abbreviations, please see page 6.

Kenton Pump District (DE00A0868)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Fluoride	ppm	2	2	0.1	0.10 - 0.10	Erosion of natural deposits		No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	11.1	11.1 - 11.1	Byproduct of drinking water disinfection		No
Total Haloacetic Acids	ppb	60	N/A	4.78	4.78 - 4.78	Byproduct of drinking water disinfection		No
Chlorine	ppm	4.0	N/A	1.44	0.9-1.44	Drinking water treatment		No
VOLATILE ORGANIC CONTAMINANTS								
Xylenes	ppm	10	10	0.00147	ND - 0.00147	Discharge from chemical factories		No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing		No
Copper	ppm	AL = 1.3	1.3	0.030	0	Corrosion of household plumbing		No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	58	58
Alkalinity	ppm	N/A	96	96
pH	std	6.5 - 8.5	7.22	7.22
Chloride	ppm	250	7.2	7.2
Sulfate	ppm	250	12.4	12.4
Total Dissolved Solids	ppm	500	178	178

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	NS	NS	Low	NS	NS	NS	Low

NS indicates Not Susceptible*

Lakeland/Beechwood Pump District (DE0000546)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Arsenic	ppb	10	0	3.79	ND - 3.79	Erosion of natural deposits		No
Barium	ppm	2	2	0.0610	ND - 0.0610	Erosion of natural deposits		No
Selenium	ppb	50	50	1.03	ND - 1.03	Erosion of natural deposits		No
Fluoride	ppm	2	2	0.80	0.80 - 0.80	Erosion of natural deposits		No
Nitrate	ppm	10	10	3.0	ND - 3.0	Runoff from fertilizer use		No
RADIOLOGICAL								
Gross Alpha	pCi/L	15	0	5.2	ND - 5.2	Erosion of natural deposits		No
Combined Radium 226/228	pCi/L	5	0	3.3	0.69 - 3.3	Erosion of natural deposits		No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	49	25 - 49	Byproduct of drinking water disinfection		No
Total Haloacetic Acids	ppb	60	N/A	17	11 - 17	Byproduct of drinking water disinfection		No
Chlorine	ppm	4.0	N/A	0.95	0.64 - 0.95	Drinking water treatment		No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing		No
Copper*	ppm	AL = 1.3	1.3	0.036	0	Corrosion of household plumbing		No

*2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	125	125
Alkalinity	ppm	N/A	290	290
pH	std	6.5 - 8.5	8.05	8.05
Chloride	ppm	250	7.3	7.3
Total Hardness	ppm	N/A	25	25
Total Dissolved Solids	ppm	500	382	382
Sulfate	ppm	250	2.9	2.9

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Medium	Very High	High	High	Medium	Exceed	Exceed

NS indicates Not Susceptible*

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Laurel Pump District (DE00A0575)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.393	0.393 - 0.393	Erosion of natural deposits	No
Nitrate	ppm	10	10	1.0	ND - 1.0	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	8.09	8.09 - 8.09	Byproduct of drinking water disinfection	No
Haloacetic Acids	ppb	60	N/A	2.01	20.1 - 2.01	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.64	0.59 - 1.64	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.007	0	Corrosion of household plumbing	No

*2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	39	39
Alkalinity	ppm	N/A	34	34
pH	std	6.5 - 8.5	7.29	7.29
Chloride	ppm	250	54.7	52.9 - 56.8
Total Hardness	ppm	N/A	13	13
Total Dissolved Solids	ppm	500	160	160
Manganese	ppb	50	11.4	11.4

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Medium	Low	Medium	Medium	Low	Medium	Medium

NS* indicates Not Susceptible

Long Farm Estates Pump District (DE00A0411)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Arsenic	ppb	10	0	2.43	2.43 - 2.43	Erosion of natural deposits	No
Fluoride	ppm	2	2	1.30	1.30 - 1.30	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes*	ppb	80	N/A	31.4	31.4 - 31.4	Byproduct of drinking water disinfection	No
Total Haloacetic Acids*	ppb	60	N/A	10.96	10.96 - 10.96	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.55	0.45 - 1.55	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	2.0	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.025	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	157	157
Alkalinity	ppm	N/A	338	338
pH	std	6.5 - 8.5	7.89	7.89
Chloride	ppm	250	9.9	9.9
Total Hardness	ppm	N/A	21	21
Total Dissolved Solids	ppm	500	418	418

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	Very Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Meadows at Cabbage Pond (DE00A0212)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
RADIOLOGICAL							
Radium 226/228	pCi/L	5	0	1.26	1.26 - 1.26	Erosion of natural deposits	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.003	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	10	10
Alkalinity	ppm	N/A	147	147
Chloride	ppm	250	1.2	1.2
Sulfate	ppm	250	5.8	5.8

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Medium	Medium	Medium	Medium	Low	Low	Medium

NS* indicates Not Susceptible

Misty Pines Pump District (DE00A0420)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.0151	0.0151 - 0.0151	Erosion of natural deposits	No
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
Nitrate	ppm	10	10	0.3	0.3 - 0.3	Runoff from fertilizer	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	12.7	12.7 - 12.7	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	5.64	5.64 - 5.64	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.58	0.90 - 1.58	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	6.5	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.027	0	Corrosion of household plumbing	No

*2018 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	7.7	7.7
Alkalinity	ppm	N/A	112	112
pH	std	6.5 - 8.5	7.11	7.11
Chloride	ppm	250	5.9	5.9
Sulfate	ppm	250	7.0	7.0
Total Hardness	ppm	N/A	91	91
Total Dissolved Solids	ppm	500	184	184

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	Low	NS	NS	Exceed	Low

NS* indicates Not Susceptible

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North West Pump District (DE00A0347)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.20	ND - 0.20	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	3.94	2.79 - 3.94	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	1.38	1.34 - 1.38	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.57	0.9 - 1.57	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	1.1	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.310	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	27	9 - 41
Alkalinity	ppm	N/A	73	53 - 88
pH	std	6.5 - 8.5	7.00	6.53 - 7.31
Chloride	ppm	250	9	8 - 11
Sulfate	ppm	250	5	4 - 6
Total Hardness	ppm	N/A	22	13 - 33
Total Dissolved Solids	ppm	500	93	66 - 112

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	Low	NS	NS	NS	Low

NS indicates Not Susceptible*

Oak Crest Farms Pump District (DE00A0753)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Nitrate	ppm	10	10	1.0	1.0 - 1.0	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	11.72	9.9 - 11.72	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	3.98	1.15 - 3.98	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.44	0.90 - 1.44	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.030	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	37	37
Alkalinity	ppm	N/A	71	71
pH	std	6.5 - 8.5	7.83	7.83
Chloride	ppm	250	12	12
Sulfate	ppm	250	0.7	0.7
Total Hardness	ppm	N/A	7	7
Total Dissolved Solids	ppm	500	90	90

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	High	Low	Low	Low	Medium

NS indicates Not Susceptible*

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For definitions and abbreviations, please see page 6.

Pepper Creek (DE0020021)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.0035	ND - 0.0035	Erosion of natural deposits	No
Nitrate	ppm	10	10	0.9	ND - 0.9	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes*	ppb	80	N/A	13.46	13.46 - 13.46	Byproduct of drinking water disinfection	No
Total Haloacetic Acids*	ppb	60	N/A	2.67	2.67 - 2.67	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.52	1.01 - 1.52	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	0.60	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.018	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	250	47	47
Alkalinity	ppm	N/A	44	44
pH	std	6.5 - 8.5	7.86	7.86
Chloride	ppm	250	47	43 - 54
Total Dissolved Solids	ppm	500	136	136
Manganese*	ppb	50	0.65	ND - 1.3

* 2017 Data

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	High	High	High	Low	Low	Exceed	High

NS* indicates Not Susceptible

Point Farm (DE00A0379)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	26	7.3 - 24	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	3.8	ND - 5.93	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.00	0.40 - 1.0	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	2.0	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.042	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	250	177	177
Alkalinity	ppm	N/A	200	200
pH	std	6.5 - 8.5	7.91	7.91
Chloride	ppm	250	82	82
Total Dissolved Solids	ppm	500	360	360

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	NS

NS* indicates Not Susceptible

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Ponds of Willow Grove (DE0020022)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Arsenic*	ppb	10	0	2.7	2.7 - 2.7	Erosion of natural deposits	No
Chromium*	ppb	100	100	2.7	2.7 - 2.7	Discharge from steel and pulp mills	No
Fluoride	ppm	2	2	0.60	0.60 - 0.60	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	50	50 - 50	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	28	28 - 28	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.21	0.65 - 1.21	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	0.4	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.036	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	117	117
Alkalinity	ppm	N/A	283	283
pH	std	6.5 - 8.5	7.99	7.99
Chloride	ppm	250	7.8	7.8
Sulfate	ppm	250	1.1	1.1
Total Hardness	ppm	N/A	28	28
Total Dissolved Solids	ppm	500	348	348
Manganese*	ppb	50	0.7	0.7

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	Very High

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Rehoboth Pump District (DE0000991)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.3770	0.0319 - 0.377	Erosion of natural deposits	No
Beryllium	ppb	4	4	0.6800	ND - 0.68	Discharge from metal refineries	No
Cadmium	ppb	5	5	0.8600	ND - 0.86	Erosion of natural deposits	No
Selenium	ppb	50	50	1.06	ND - 1.06	Erosion of natural deposits	No
Nitrate	ppm	10	10	4.2	1.1 - 4.2	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	5	0.54 - 6.7	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	0.63	ND - 2.5	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.79	0.54 - 1.79	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	1.4	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.116	0	Corrosion of household plumbing	No

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
UNREGULATED CONTAMINANT MONITORING RESULTS (USMR 4)							
Bromide	ppb	N/A	N/A	143	47 - 143		N/A
Manganese	ppb	N/A	N/A	15	1.7 - 15	Naturally-occurring element	N/A
Haloacetic Acids (HAA6Br)	ppb	N/A	N/A	1.67	0.31 - 1.67	Byproduct of drinking water disinfection	N/A
Haloacetic Acids (HAA9)	ppb	N/A	N/A	1.67	0.31 - 1.67	Byproduct of drinking water disinfection	N/A

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	49	27 - 148
Alkalinity	ppm	N/A	61	44 - 91
pH	std	6.5 - 8.5	7.41	7.15 - 7.59
Chloride	ppm	250	40	12 - 203
Sulfate	ppm	250	12	2.1 - 34
Iron	ppb	300	50	ND - 410
Total Hardness	ppm	N/A	16	ND - 69
Total Dissolved Solids	ppm	500	174	102 - 522
Manganese	ppb	50	3	ND - 16

*2017 Data.

The purpose of the UCMR monitoring is to provide EPA Administrator with data to support decisions concerning whether or not to regulate these contaminants. Results are from 2019.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	High	Exceed	High	High	High	Exceed	Very High

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Sandy Ridge Pump District (DE00A0699)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.9	0.9 - 0.9	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes*	ppb	80	N/A	8.98	8.98 - 8.98	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.70	0.49 - 1.70	Drinking water treatment	No
RADIOLOGICAL							
Gross Alpha Emitters	pCi/L	15	0	8.2	8.2 - 8.2	Erosion of natural deposits	No
Radium 226/228	pCi/L	5	0	1.49	1.49 - 1.49	Erosion of natural deposits	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	0.6	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.030	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	174	174
Alkalinity	ppm	N/A	339	339
pH	std	6.5 - 8.5	8.28	8.28
Chloride	ppm	250	29	29
Total Dissolved Solids	ppm	500	464	464
Total Hardness	ppm	N/A	14	14

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Low	Low	Low	Very Low	Very Low	Exceed	Very High

NS* indicates Not Susceptible

Sea Winds Pump District (DE00A0516)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	oom	2	2	0.1	0.1 - 0.1	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes*	ppb	80	N/A	20.25	20.25 - 20.25	Byproduct of drinking water disinfection	No
Total Haloacetic Acids*	ppb	60	N/A	4.4	4.4 - 4.4	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.44	0.71 - 1.44	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	0.7	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.015	0	Corrosion of household plumbing	No

*2017 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	59	59
Alkalinity	ppm	N/A	59	59
pH	std	6.5 - 8.5	7.13	7.13
Chloride	ppm	250	19	19
Sulfate	ppm	250	44	44
Total Dissolved Solids	ppm	500	166	166

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Medium	Medium	Medium	Very Low	Very Low	Very Low	Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

South East Pump District (DE00A0376)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.30	0.30 - 0.30	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	5.53	4.14 - 5.53	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	1.37	1.17 - 1.37	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.10	0.69 - 1.10	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.190	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	18	18
Alkalinity	ppm	N/A	110	110
pH	std	6.5 - 8.5	7.53	7.53
Chloride	ppm	250	4.3	4.3
Sulfate	ppm	250	6.0	6.0
Iron	ppb	300	150	150
Total Hardness	ppm	N/A	55	55
Total Dissolved Solids	ppm	500	130	130

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Medium	Medium	High	Low	Low	Low	High

NS* indicates Not Susceptible

South Shores (DE00A0404)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
RADIOLOGICAL							
Radium 226/228	pCi/L	5	0	1.30	0.66 - 1.30	Erosion of natural deposits	No
Gross Alpha	pCi/L	15	0	5.0	0.51 - 5.0	Erosion of natural deposits	No
SYNTHETIC ORGANIC CONTAMINANTS							
Di (2-ethylhexyl) adipate*	ppb	400	400	0.22	0.22 - 0.22	Discharge from chemical factories	No
Di (2-ethylhexyl) phthalate*	ppb	6	0	0.35	0.35 - 0.35	Discharge from chemical factories	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	0.56	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.010	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	9.37	9.37 - 9.37
Alkalinity	ppm	N/A	142	142 - 142
Chloride	ppm	250	0.965	0.96 - 0.97
Sulfate	ppm	250	6.63	6.63 - 6.63
Manganese	ppb	50	18.2	18.2

*2017 Data. **2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Very Low	Very Low	Low	NS	NS	NS	Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Southwood Acres Pump District (DE0000613)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	7.8	7.8 - 7.8	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	2.94	2.94 - 2.94	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.00	0.90 - 1.00	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.0182	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	46.5	43 - 50
Alkalinity	ppm	N/A	86.5	86 - 87
pH	std	6.5 - 8.5	7.27	7.24 - 7.30
Chloride	ppm	250	6.82	6.76 - 6.88
Sulfate	ppm	250	13.55	13.4 - 13.7
Total Hardness	ppm	N/A	3.3	ND - 6.57
Iron	ppb	300	192	ND - 384
Total Dissolved Solids	ppm	500	172	162 - 182
Manganese**	ppb	50	1.8	1.8

*2018 Data. **2017 Data

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Medium	Medium	Medium	Medium	Low	NS	NS	NS

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Summit Pond Pump District (DE0000140)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Barium*	ppm	2	2	0.1765	0.1645 - 0.1765	Erosion of natural deposits	No	No
Chromium*	ppb	100	100	1.8	ND - 1.8	Discharge from steel and pulp mills	No	No
Nickel*	ppb	100	100	1.1	0.9 - 1.1	Occurs naturally in soil	No	No
Fluoride	ppm	2	2	0.20	0.20 - 0.20	Erosion of natural deposits	No	No
DISINFECTION BY-PRODUCTS								
Total Trihalomethanes	ppb	80	N/A	4.44	4.44 - 4.44	Byproduct of drinking water disinfection	No	No
Haloacetic Acids	ppb	60	N/A	1.64	1.64 - 1.64	Byproduct of drinking water disinfection	No	No
Chlorine	ppm	4.0	N/A	1.23	0.88 - 1.23	Drinking water treatment	No	No
RADIOLOGICAL								
Combined Radium 226/228**	pCi/L	5	0	2.26	2.26 - 2.26	Erosion of natural deposits	No	No
VOLATILE ORGANIC CONTAMINANTS								
Ethylbenzene	ppb	700	700	0.53	ND - 0.53	Discharge from petroleum refineries	No	No
Xylenes	ppm	10	10	0.00325	0.00242 - 0.00325	Discharge from petroleum factories	No	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead*	ppb	AL = 15	0	1.6	0	Corrosion of household plumbing	No	No
Copper*	ppm	AL = 1.3	1.3	0.152	0	Corrosion of household plumbing	No	No

*2017 Data **2016 Data

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	7	7
Alkalinity	ppm	N/A	105	105
pH	std	6.5 - 8.5	7.21	7.21
Chloride	ppm	250	6	6
Sulfate	ppm	250	5	5
Total Hardness	ppm	N/A	78	78
Total Dissolved Solids	ppm	500	130	130
Manganese*	ppb	50	6.8	5.0 - 9.5

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	Very Low

NS* indicates Not Susceptible

Teal Point (DE00A0321)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation	Yes/No
INORGANIC CHEMICALS								
Selenium	ppb	50	50	0.75	0.75 - 0.75	Erosion of natural deposits	No	No
Nitrate (Note)	ppm	10	10	7.0	5.8 - 7.0	Runoff from fertilizer	No	No
RADIOLOGICAL								
Radium 226/228	pCi/L	5	0	1.16	1.16 - 1.16	Erosion of natural deposits	No	No
SYNTHETIC ORGANIC CONTAMINANTS								
Alachlor*	ppb	2	0	0.15	0.15 - 0.15	Runoff from herbicide used on row crops	No	No
Atrazine*	ppb	3	3	0.046	0.046 - 0.046	Runoff from herbicide used on row crops	No	No
Di (2-ethylhexyl) adipate*	ppb	400	400	0.21	0.21 - 0.21	Discharge from chemical factories	No	No
Di (2-ethylhexyl) phthalate*	ppb	6	0	0.24	0.24 - 0.24	Discharge from chemical factories	No	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance	Yes/No
Lead	ppb	AL = 15	0	1.20	0	Corrosion of household plumbing	No	No
Copper	ppm	AL = 1.3	1.3	0.043	0	Corrosion of household plumbing	No	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	39	39
Alkalinity	ppm	N/A	26	26
Chloride	ppm	250	12.9	11.4 - 17.7
Sulfate	ppm	250	13.3	12.1 - 14.2

*2017 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	NS

NS* indicates Not Susceptible

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The Meadows Pump District (DE0000271)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.0751	0.0702 - 0.0751	Erosion of natural deposits	No
Chromium*	ppb	100	100	0.7	0.7 - 0.7	Discharge from steel and pulp mills	No
Nickel*	ppb	100	100	5.1	1.1 - 5.1	Occurs naturally in soil	No
Nitrate (Note)	ppm	10	10	6.0	2.7 - 6.0	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	5.29	4.0 - 5.29	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.26	0.36 - 1.36	Drinking water treatment	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	1.5	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.044	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	35	26 - 43
Alkalinity	ppm	N/A	57	38 - 74
pH	std	6.5 - 8.5	7.79	7.20 - 8.98
Chloride	ppm	250	25	11 - 29
Sulfate	ppm	250	8.4	1.8 - 10.6
Total Hardness	ppm	N/A	19	10 - 26
Total Dissolved Solids	ppm	500	145	110 - 178
Manganese*	ppb	50	3.7	2.2 - 5.1

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 month 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.

*2017 Data. **2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Medium	Very High	High	Medium	Medium	Medium	High

NS* indicates Not Susceptible

Viola District (DE00A0401)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Arsenic* (Note)	ppb	10	0	5.0	5.0 - 5.0	Erosion of natural deposits	No
Barium*	ppm	2	2	0.0006	0.0006 - 0.0006	Erosion of natural deposits	No
Nickel*	ppb	100	100	1.3	1.3 - 1.3	Occurs Naturally in soil	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	26	19.4 - 33	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	14	10.7 - 17.7	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.46	0.56 - 1.46	Drinking water treatment	No
RADIOLOGICAL							
Gross Alpha Emitters**	pCi/L	15	0	3.19	3.19 - 3.19	Erosion of natural deposits	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead***	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper***	ppm	AL = 1.3	1.3	0.0086	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	11	11
Alkalinity	ppm	N/A	185	185
pH	std	6.5 - 8.5	7.42	7.42
Chloride	ppm	250	6.5	6.5
Total Hardness	ppm	N/A	127	127
Total Dissolved Solids	ppm	500	256	256
Manganese*	ppb	50	2	2

Note: 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.

*2017 Data. **2016 Data. ***2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	NS	NS	NS	NS

NS* indicates Not Susceptible

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Voshells Cove Pump District (DE0000125)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Fluoride	ppm	2	2	0.10	0.10 - 0.10	Erosion of natural deposits	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	13.72	13.72 - 13.72	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	7.78	7.78 - 7.78	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.84	1.03 - 1.84	Drinking water treatment	No
RADIOLOGICAL							
Combined Radium 226/228	pCi/L	5	0	2.3	ND - 2.3	Erosion of natural deposits	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	1	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.0510	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	35	35
Alkalinity	ppm	N/A	153	153
pH	std	6.5 - 8.5	7.78	7.78
Chloride	ppm	250	6.4	6.4
Total Hardness	ppm	N/A	59	59
Total Dissolved Solids	ppm	500	224	224
Sulfate	ppm	250	2.9	2.9
Manganese*	ppb	50	11.4	11.4

*2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Exceeds	Low	Low	NS	NS	NS	NS

NS* indicates Not Susceptible

Webbs Landing Pump District (DE00A0369)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium*	ppm	2	2	0.0287	0.0287 - 0.0287	Erosion of natural deposits	No
Chromium*	ppb	100	100	1.2	1.2	Discharge from steel and pulp mills	No
Nickel*	ppb	100	100	1.5	1.5	Occurs naturally in soil	No
Nitrate	ppm	10	10	2.0	2.0 - 2.0	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	2.8	2.8 - 2.8	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.04	0.41 - 1.04	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead**	ppb	AL = 15	0	0.5	0	Corrosion of household plumbing	No
Copper**	ppm	AL = 1.3	1.3	0.020	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	34	34
Alkalinity	ppm	N/A	57	57
pH	std	6.5 - 8.5	7.10	7.10
Chloride	ppm	250	12	12
Sulfate	ppm	250	5.7	5.7
Total Hardness	ppm	N/A	7	7
Total Dissolved Solids	ppm	500	114	114
Manganese*	ppb	50	3.2	3.2

*2015 Data. **2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Low	Low	Low	Low	Very Low	Very Low	Very Low	Low

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

West Dover Pump District (DE00A0684)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Arsenic	ppb	10	0	3.79	ND – 3.79	Erosion of natural deposits	No
Barium	ppm	2	2	0.0610	ND – 0.061	Erosion of natural deposits	No
Selenium	ppb	50	50	1.03	ND – 1.03	Erosion of natural deposits	No
Fluoride	ppm	2	2	0.80	0.80 – 0.80	Erosion of natural deposits	No
Nitrate	ppm	10	10	3.0	ND – 3.0	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	59.39	47.27 – 59.39	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	26.35	19.48 – 26.35	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.74	0.42 – 1.74	Drinking water treatment	No
RADIOLOGICAL							
Gross Alpha	pCi/L	15	0	5.2	ND – 5.2	Erosion of natural deposits	No
Combined Radium 226/228	pCi/L	5	0	3.3	0.69 – 3.3	Erosion of natural deposits	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.0164	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	146	146
Alkalinity	ppm	N/A	317	317
pH	std	6.5 - 8.5	7.68	7.68
Chloride	ppm	250	8.3	8.3
Total Hardness	ppm	N/A	33	33
Total Dissolved Solids	ppm	500	384	384
Sulfate	ppm	250	2.5	2.5
Manganese	ppb	50	29	ND – 83

*2018 Data.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	Medium	Very High	High	High	Medium	Exceed	Exceed

NS* indicates Not Susceptible

Level 1 Assessment: A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

During the past year we were required to conduct one Level 1 assessment. The Level 1 assessment was completed in May 2019. No corrective actions were required from the Level 1 assessment.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens 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 assessment(s) to identify problems and to correct any problems that were found during these assessments.

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For definitions and abbreviations, please see page 6.

Wild Quail Pump District (DE00A0159)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Arsenic*	ppb	10	0	2.4	ND - 2.4	Erosion of natural deposits	No
Barium*	ppm	2	2	0.1431	ND - 0.1431	Erosion of natural deposits	No
Chromium*	ppb	100	100	2.8	0.5 - 2.8	Discharge from steel and pulp mills	No
Nickel*	ppb	100	100	4.4	ND - 4.4	Occurs naturally in soil	No
Fluoride	ppm	2	2	0.80	ND - 0.80	Erosion of natural deposits	No
Nitrate (Note)	ppm	10	10	5.2	ND - 5.2	Runoff from fertilizer use	No

DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	46	23 - 64	Byproduct of drinking water disinfection	No
Total Haloacetic Acids	ppb	60	N/A	30	13.4 - 47	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	2.12	0.61-2.12	Drinking water treatment	No

SYNTHETIC ORGANIC CHEMICALS							
Dalapon	ppb	200	200	1.4	ND - 1.4	Runoff from herbicide used on rights of way	No

Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	2.0	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.016	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	113	60 - 166
Alkalinity	ppm	N/A	111	94 - 348
pH	std	6.5 - 8.5	7.66	7.18 - 8.15
Chloride	ppm	250	23	10 - 35
Sulfate	ppm	250	8.5	1.0 - 16
Iron	ppb	300	140	ND - 280
Total Hardness	ppm	N/A	24	14 - 34
Total Dissolved Solids	ppm	500	346	240 - 452
Manganese*	ppb	50	10.8	0.6 - 21

*2015 Data.

Note: Nitrate in drinking water at levels above 10 ppm are a health risk for infants of less than 6 month 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.

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	Very High	High	High	High	Low	Low	Low	Very High

NS* indicates Not Susceptible

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For definitions and abbreviations, please see page 6.

Willow Lake Pump District (DE00A0757)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
INORGANIC CHEMICALS							
Barium	ppm	2	2	0.0777	0.0777 - 0.0777	Erosion of natural deposits	No
Nitrate	ppm	10	10	2.6	2.6 - 2.6	Runoff from fertilizer use	No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	7.4	7.4 - 7.4	Byproduct of drinking water disinfection	No
Haloacetic Acids	ppb	60	N/A	1.13	1.13 - 1.13	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.33	0.68 - 1.33	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper	ppm	AL = 1.3	1.3	0.009	0	Corrosion of household plumbing	No

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	44	44
Alkalinity	ppm	N/A	82	82
pH	std	6.5 - 8.5	7.87	7.87
Chloride	ppm	250	12	12
Sulfate	ppm	250	4.1	4.1
Total Hardness	ppm	N/A	11	11
Total Dissolved Solids	ppm	500	194	194

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	High	High	Low	High	Low	Low	Low

NS indicates Not Susceptible*

Woodlands of Millsboro Pump District (DE00A0279)

Parameter	Units	MCL	MCLG	Highest Level Detected	Range	Major Sources in Drinking Water	MCL Violation Yes/No
DISINFECTION BY-PRODUCTS							
Total Trihalomethanes	ppb	80	N/A	5.65	5.65 - 5.65	Byproduct of drinking water disinfection	No
Chlorine	ppm	4.0	N/A	1.66	1.24 - 1.66	Drinking water treatment	No
Parameter	Units	Action Level	MCLG	90th Percentile	# Sites Over AL	Major Sources in Drinking Water	AL Exceedance Yes/No
Lead*	ppb	AL = 15	0	ND	0	Corrosion of household plumbing	No
Copper*	ppm	AL = 1.3	1.3	0.009	0	Corrosion of household plumbing	No

*2017 Data.

SECONDARY STANDARDS (Non-Health Related)

Parameter	Units	SMCL	Average	Range
Sodium	ppm	N/A	39	39
Alkalinity	ppm	N/A	67	67
pH	std	6.5 - 8.5	6.87	6.87
Chloride	ppm	250	9.3	9.3
Total Dissolved Solids	ppm	500	108	108

SOURCE WATER ASSESSMENT - Overall Susceptibility Ratings

Contaminant Category	Nutrients	Pathogens	Petroleum Hydrocarbons	Pesticides	Other Organics	PCBs	Metals	Other Inorganics
Susceptibility (Low, Medium, High or NS*)	High	High	High	High	Medium	Low	Low	Medium

NS indicates Not Susceptible*

Tidewater Utilities, Inc. • Water Quality Report - 2019

Information About Lead in Your Drinking Water

The United States Environmental Protection Agency (EPA) and Tidewater Utilities, Inc. (Tidewater) are concerned about lead in public drinking water supplies. Although most homes have very low levels of lead in their drinking water, some homes in the community have lead levels above the EPA action level of 15 parts per billion (ppb) or 0.015 milligrams of lead per liter of water (mg/L). Under Federal law, all water utilities, including Tidewater, are required to have a program in place to minimize lead in drinking water. This program includes corrosion control treatment, source water treatment and public education.

Tidewater is also required to replace each lead service line that it controls if the line contributes to lead concentrations of 15 ppb or more after a comprehensive treatment program has been completed.

If you have any questions about how the requirements of the lead regulation are being carried out, please call us at (302) 734-7500 or (877) 720-9272. This insert explains the simple steps you can take to protect yourself and your family by reducing your exposure to lead in drinking water.

Learn About the Health Effects of Lead

Lead is a common metal found throughout the environment in:

- Lead-based paint
- Air
- Soil
- Household dust
- Food
- Certain types of pottery, porcelain and pewter
- Water

LEAD CAN POSE A SIGNIFICANT RISK TO YOUR HEALTH if too much of it enters your body. Lead builds up in the body over many years and can cause damage to the brain, red blood cells and kidneys.

THE GREATEST RISK IS TO YOUNG CHILDREN AND PREGNANT WOMEN – Amounts of lead that won't hurt adults can slow down normal mental and physical development of growing bodies.

In addition, a child at play often comes into contact with sources of lead contamination – like dirt and dust – that rarely affect an adult. It is important to wash children's hands and toys often and to try to make sure they only put food in their mouths.

Your family doctor or pediatrician can perform a blood test for lead and can provide you with information about the health effects of lead.

LEAD IN DRINKING WATER, although rarely the sole cause of lead poisoning, can significantly increase a person's total lead exposure, particularly the exposure of infants who drink baby formulas and concentrated juices that are mixed with water. The EPA estimates that lead in drinking water can make up 20 percent or more of a person's total exposure to lead. Lead is unusual among drinking water contaminants in that it seldom occurs naturally in water supplies like rivers and lakes.

So, How Does Lead Get into Drinking Water?

LEAD ENTERS DRINKING WATER, primarily as a result of corrosion or wearing away of materials containing lead in the water distribution system and household plumbing. These materials include:

- Lead-based solder used to join copper pipe
- Brass and chrome-plated brass faucets
- In some cases, pipes made of lead that connect your house to the water main (service lines) (In 1986, Congress banned the use of lead solder containing greater than 0.2 percent lead and restricted the lead content of faucets, pipes and other plumbing materials to 8.0 percent.)

WHEN WATER STANDS IN LEAD PIPES or plumbing systems containing lead for several hours or more, the lead may dissolve into your drinking water. This means the first water drawn from the tap in the morning, or later in the afternoon after returning from work or school, can contain fairly high levels of lead.

YOU CAN TAKE STEPS IN THE HOME TO REDUCE EXPOSURE to lead in drinking water. Despite your local water supplier's best efforts mentioned earlier to control water corrosivity and remove lead from the water supply, lead levels in some homes or buildings can be high.

TO FIND OUT WHETHER YOU NEED TO TAKE ACTION in your home, have your drinking water tested to determine if it contains excessive concentrations of lead. Testing the water is essential because you cannot see, taste or smell lead in drinking water. A local laboratory can provide this service.

How to Reduce Exposure to Lead

IF A WATER TEST INDICATES that the drinking water drawn from a tap in your home contains lead above 15 ppb, then you should take the following precautions...

1 FLUSH YOUR TAP – Let the water run from the tap before using it for drinking or cooking any time the water in a faucet has gone unused for more than 6 hours. The longer water resides in your home's plumbing, the more lead it may contain.

Flushing the tap means running the cold water faucet until the water gets noticeably colder, usually about 15-30 seconds. If your house has a lead service line to the water main, you may have to flush the water for a longer time, perhaps one minute, before drinking. Although toilet flushing or showering flushes water through a portion of your home's plumbing system, you still need to flush the water in each faucet before using it for drinking or cooking.

OTHER THINGS YOU SHOULD KNOW ABOUT FLUSHING TAPS:

- **FLUSHING TAP WATER IS A SIMPLE AND INEXPENSIVE MEASURE** you can take to protect your family's health. It usually uses less than 1 or 2 gallons of water a day.
- **TO CONSERVE WATER**, fill a couple of bottles for drinking water after flushing the tap and whenever possible use the first flush water to wash the dishes or water the plants.
- **IF YOU LIVE IN A HIGH-RISE BUILDING**, letting the water flow before using it may not work to lessen your risk from lead. The plumbing systems have more and sometimes larger pipes than smaller buildings. Ask your landlord for help in locating the source of the lead and for advice on reducing the lead level.

2 TRY NOT TO COOK WITH OR DRINK WATER FROM THE HOT WATER TAP – Hot water can dissolve more lead more quickly than cold water. If you need hot water, draw water from the cold tap and heat it on the stove.

3 REMOVE LOOSE LEAD SOLDER AND DEBRIS from the plumbing materials installed in newly constructed homes or homes in which the plumbing has recently been replaced, by removing the faucet strainers from all taps and running the water from 3 to 5 minutes. Thereafter, periodically remove the strainers and flush out any debris that has accumulated over time.

4 CHECK YOUR PIPES if your copper pipes are joined with lead solder that has been installed illegally since it was banned in 1986, notify the plumber who did the work and request that he or she replace the lead solder with lead-free

solder. (Lead solder looks dull gray, and when scratched with a key, looks shiny.)

5 FIND OUT ABOUT SERVICE LINE – Determine whether or not the service line that connects your home or apartment to the water main is made of lead.

The best way to determine if your service line is made of lead is by either hiring a licensed plumber to inspect the line or by contacting the plumbing contractor who installed the line.

You can identify the plumbing contractor by checking the city's record of building permits. A licensed plumber can at the same time check to see if your home's plumbing contains lead solder, lead pipes or pipe fittings that contain lead. The public water system that delivers water to your home should also maintain records of materials located in the distribution system.

IF THE SERVICE THAT CONNECTS YOUR DWELLING TO THE WATER MAIN contributes more than 15 ppb to drinking water, after a comprehensive treatment program is in place, Tidewater is required to replace the line. If the line is only partially controlled by Tidewater, we are required to:

- Provide you with information on how to replace your portion of the service line.
- Offer to replace that portion of the line at your expense.
- Take a follow-up tap water sample within 14 days of the replacement. (Acceptable replacement alternatives include copper, steel, iron and plastic pipes.)

6 HAVE AN ELECTRICAL CHECK YOUR WIRING if grounding wires from the electrical system are attached to your pipes, corrosion may be greater. Check with a licensed electrician or your local electrical code to determine if your wiring can be grounded elsewhere. DO NOT attempt to change the wiring yourself because improper grounding can cause electrical shock and fire hazards.

THE 6 STEPS DESCRIBED PREVIOUSLY WILL REDUCE THE LEAD CONCENTRATIONS in your drinking water. However, if a water test indicates that the drinking water coming from your tap contains lead concentrations in excess of 15 ppb after flushing, or after Tidewater has completed its action to minimize lead levels, then you may want to take the following additional measures:

PURCHASE OR LEASE A HOME TREATMENT DEVICE – Home treatment devices are limited in that each unit treats only the water that flows from the faucet to which it is connected and all of the devices require periodic maintenance and replacement. Devices such as reverse osmosis systems or distillers can effectively remove lead from your drinking water. Some activated carbon filters may reduce lead levels at the tap; however, all lead reduction claims should be investigated. Be sure to check the actual performance of a specific home treatment device before and after installing the unit.

PURCHASE BOTTLED WATER for drinking and cooking.

Tidewater Utilities, Inc.
1100 South Little Creek Road • Dover, DE 19901



A Middlesex Water Company Affiliate

1100 South Little Creek Road

Dover, DE 19901

1-302-734-7500 (Local)

1-877-720-9272 (Customer Service)

MiddlesexWater.com

Important Water Quality Information!

Please read and retain for your records.