

2017 CONSUMER CONFIDENCE REPORT

Oakland Association Incorporated

Oakland, Rhode Island

PWSID# RI1592019

We are very pleased to provide you with this year's Consumer Confidence Report. This report provides you with information on the water and services that we delivered to you in 2017. Included are details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies.

We want our valued members and customers to be informed about their water utility. There are no regularly scheduled meetings, therefore; if after reviewing this report you have any questions, or would like to know more about the Oakland Association Inc. water system, please call Richard Nolan at 401-568-3695.

The Quality of Your Drinking Water

Our goal is to provide you with a safe and dependable supply of drinking water. We're proud to inform you that your drinking water meets all Federal and State requirements. We are committed to ensuring the quality of your water.

The Source of Your Drinking Water

Our water source is one drilled well (Well #2) drawn from the Upper Branch Groundwater Reservoir. Previously, Well #1, unused for several years, was a reserve well but was designated inactive and disconnected from the system prior to 2011 due to pH and quantity issues.

The RI Department of Health, in cooperation with other state and federal agencies, has assessed the threats to Oakland Association's water supply sources. The assessment considered the intensity of development, the presence of businesses and facilities that use, store or generate potential contaminants, how easily contaminants may move through the soils in the Source Water Protection Area (SWPA), and the sampling history of the water.

Our monitoring program continues to assure that the water delivered to your home is safe to drink. However, the assessment found that the water source is at MODERATE RISK of contamination. This means the water could one day become contaminated. Monitoring and protection efforts are necessary to assure continued water quality. The complete Source Water Assessment Report is available from the Oakland Association or the Department of Health at (401) 222-6867.

Why Are There Contaminants in My Drinking Water?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's (EPA) Safe Drinking Water Hotline (800-426-4791).

In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- **Radioactive contaminants**, which can be naturally occurring or the result of oil and gas production and mining activities.

Water Quality Test Results

The following table lists all of the drinking water contaminants that were detected through our water quality monitoring and testing. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from the January – December 2017 monitoring period. For those contaminants that are monitored less frequently the most recent test results are listed.

Maximum Contaminant Levels (MCL's) are set at very stringent levels. The Maximum Contaminant Level Goal (MCLG) is set at a level where no health effects would be expected, and the MCL is set as close to that as possible, considering available technology and cost of treatment. A person would have to drink 2 liters of water every day, as recommended by health professionals, at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

2017 TEST RESULTS						
Inorganic Contaminants	Violation Y/N	Level Detected (Range)	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Barium (2015)	N	0.019 single sample	ppm	2	2	Discharge of drilling wastes; erosion of natural deposits
Chromium (2015)	N	3.0 single sample	ppb	100	100	Discharge from steel and pulp mills; erosion of natural deposits
Copper* (2017)	N	0.318	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride (2015)	N	0.7 single sample	ppm	4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Lead* (2017)	N	2.0	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Nitrate (as Nitrogen) (2017)	N	1.25 single sample	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Unregulated Contaminants (<i>contaminants with a health advisory</i>)						
Contaminant	Level Detected	Unit Measurement	Minimum Reporting Level	Likely Source of Contamination		
Perfluorooctanesulfonic Acid (PFOS) (2017)	104	ng/L	0.04	Surfactant or emulsifier; used in fire-fighting foam, circuit board etching acids, alkaline cleaners, floor polish, and as a pesticide active ingredient for insect bait traps. U.S. manufacture of PFOS phased out in 2002, however PFOS still generated incidentally		
Perfluorooctanoic Acid (PFOA) (2017)	10.4	ng/L	0.02	Perfluorinated aliphatic carboxylic acid; used for its emulsifier and surfactant properties in or as fluoropolymers (such as Teflon), fire-fighting foams, cleaners, cosmetics, greases and lubricants, paints, polishes, adhesives, and photographic films.		
Perfluorohexanesulfonic Acid (PFHxA) (2017)	16.4	ng/L	0.03	Manmade chemical; used in products to make them stain, grease, heat, and water resistant		
Perfluorohexanesulfonic Acid (PFHxS) (2017)	32.4	ng/L	0.03	Manmade chemical; used in products to make them stain, grease, heat, and water resistant		
Perfluoroheptanoic Acid (PFHpA) (2017)	15.2	ng/L	0.01	Manmade chemical; used in products to make them stain, grease, heat, and water resistant		
Perfluorobutanesulfonic Acid (PFBS) (2017)	4.99	ng/L	0.09	Manmade chemical; used in products to make them stain, grease, heat, and water resistant		
Perfluoropentanoic Acid (PFPEA) (2017)	23.8	ng/L	0.01	Manmade chemical; used in products to make them stain, grease, heat, and water resistant		

* Reported results are the 90th percentile value (the value that 90% of all samples are less than). All lead and copper results were found to be below their respective action levels.

Note: The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Not all contaminants are tested for every year due to monitoring waivers and therefore we must use the most recent round of sampling. Some of our data is more than one year old, however, is limited to no older than 5 years.

Parts per million (ppm) or Milligrams per liter (mg/L) - One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) - One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

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

Maximum Contaminant Level (MCL) - The MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The MCLG is 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.

Definitions:

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

Treatment Technique (TT) - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

Million Fibers per Liter (MFL) - million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Maximum Contaminant Level (MCL) - The MCL is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG) - The MCLG is 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.

Drinking Water Equivalent Level (DWEL) - A lifetime exposure concentration protective of adverse, non-cancer health effects, that assumes all of the exposure to a contaminant is from a drinking water source.

Maximum Residual Disinfectant Level (MRDL) - The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG) - The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Running Annual Average (RAA) - The average of all monthly or quarterly samples for the last year at all sample locations.

Non Detect (ND) - The contaminant was not detected.

Not Applicable, Not Established (N/A)

IMPORTANT INFORMATION

Lead - Major Sources in Drinking Water: *Corrosion of household plumbing systems; erosion of natural deposits.*

Health Effects Statement: *Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.*

Copper - Major Sources in Drinking Water: *Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives*

Health Effects Statement: *Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastrointestinal distress. Some people who drink water containing copper in excess of the action level over many years could, suffer liver or kidney damage. People with Wilson's Disease should consult their personal doctor.*

The State of Rhode Island requires testing for other contaminants not regulated by the US EPA. The following contaminant was detected in our well water:

Sodium: In 2017, sodium was detected at 31.5 ppm.

PFAS Language

Our water system has sampled for a series of unregulated contaminants known as Per/polyfluorinated Alkyl Substances (PFASs). Unregulated contaminants are those that don't yet have a drinking water standard set by EPA. As our customers, you have a right to know that these data are available. If you are interested in examining the results please look at the data above, or please contact Richard Nolan at 401-568-3695 or 1207 Victory Highway, Oakland, RI 02858.

Consumer Confidence Report Reporting Violation

Our system failed to submit our 2016 Consumer Confidence Report (CCR) to the Rhode Island Department of Health's Center for Drinking Water Quality by July 1st, 2017 as required by State and Federal regulations, and thus were issued this violation. The report was submitted on September 18, 2017 to the Department of Health and we have been found to be in compliance and the matter closed. This does not pose a threat to the quality of our water.

Lead & Copper Rule Consumer Notification Violation

In 2017, our system failed to notify consumers of lead results within 30 days of collecting and submitting samples as required by State and Federal regulations. This does not pose a threat to the quality of our water. Since this violation, we have distributed all Public Notifications and are in compliance with this order.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

For most people, the health benefits of drinking plenty of water outweigh any possible health risk from these contaminants. However, 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791).

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. The Oakland Association is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

We at the Oakland Association work to provide top quality water to every tap. We encourage all of our members and customers to conserve and use water efficiently and remind you to help us protect our water sources, which are the heart of our community, our way of life and our children's future. Please do not hesitate to call our office with any questions.
Sincerely yours, Richard Nolan, Secretary / Treasurer