



A Message from the Public Works Director

We're pleased to present to you this year's Annual Drinking Water Quality Report. This report is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

Our water source is the Floridan Aquifer. The Town's raw water is fed from two separate wells, one located at Speer Park and one located at VanderLey Park. Raw water from both wells is sent to our treatment plant, also located at VanderLey Park, where it is treated with chlorine for disinfection.

You may have noticed the construction in progress at VanderLey Park during 2014. This project, known as the Town of Oakland's Water System Improvements Project, was a joint venture between the Town and the State of Florida's Department of Environmental Protection. It began in January, 2014 and was completed by December, 2014. The goal of the project was to improve overall system reliability, eliminate problems associated with inconsistent pressures, and, in the event of a fire or other emergency, to provide additional water storage capacity. The project included the construction of a new water storage tank – the Town's third and largest at 500,000 gallons capacity – that will provide for current demand and ensure an adequate supply is available for potential growth. In addition to the new ground-storage tank, the Town also constructed a new water-distribution pump house, installed new distribution pipelines to improve system



efficiency, replaced an aging raw-water pipeline and upgraded pumps to a variable frequency drive (VFD) system, which reduces energy costs and helps to maintain consistent water pressure. VFD's also provide protection to our extensive distribution infrastructure by minimizing the damaging effects of "water hammer". The scope of this project was limited to the storage and distribution of water post-treatment. In other words, no changes were made to the way the Town disinfects and otherwise treats its water. If you haven't yet visited our beautiful new park, we invite you to come and stroll along our picnic-friendly trails and check out our state-of-the art water facilities.





During all of 2015, the Town has closely monitored the new system to ensure proper functionality of the improvements. We are pleased to report that the new system provided an increase in water pressure to all residents served by the Town's water. Moreover, the multiple VFD pumps have worked efficiently to maintain a consistent rate of pressure in the distribution network.

The year 2015 also afforded the Town with an opportunity to restructure the Public Works and Utilities Departments. The departments gained a Public Works Supervisor, Scott Townsend, and a Utility Distribution Technician Trainee, Todd Best. The additional personnel has allowed the departments to better serve the community through experience, working knowledge, and additional man power.

If you have any questions about this report or questions concerning your water utility, please contact the Public Works Director Michael Parker at (407) 656-1117 ext. 2302. We encourage our valued customers to be informed about their water utility. If you want to learn more, please attend any of our regularly scheduled Town Commission meetings. They are held on the second and fourth Tuesday of every month. See the Town's calendar for upcoming meetings at www.oaktownusa.com.

This report will be mailed to customers only upon request. Alternately, copies of this report will be available for pickup – upon request – at Oakland Town Hall, located at 230 N Tubb Street.

Tools to Better Understand this Report

The Town of Oakland routinely monitors for contaminants in your drinking water according to Federal and State laws, rules, and regulations. Except where indicated otherwise, this report is based on the results of our monitoring for the period of January 1 to December 31, 2015. Data obtained before January 1, 2015 and presented in this report are from the most recent testing done in accordance with the laws, rules, and regulations.

In the table below, you may find unfamiliar terms and abbreviations. To help you better understand these terms we've provided the following definitions:

- Action Level (AL): The concentration of contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water.
 MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which
 there is no known or expected rick to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfection Level or 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 or 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.
- "N/A" means not applicable
- "ND" means not detected and indicates that the substance was not found by laboratory analysis.
- Parts per billion (ppb) or Micrograms per liter ($\mu g/l$): one part by weight of analyte to 1 billion parts by weight of the water sample.
- Parts per million (ppm) or Milligrams per liter (mg/l): one part by weight of analyte to I million parts by weight of the water sample.
- Picocurie per liter (pCi/L): measure of the radioactivity in water.

In 2015 the Florida Department of Environmental Protection performed a Source Water Assessment for The Town of Oakland. A potential source of contamination was identified at one location for this system with a moderate concern level and a susceptibility score of 16.66. The assessment results are available on the FDEP Source Water Assessment and Protection Program website at https://fldep.dep.state.fl.us/swapp/DisplayPWS.asp?pws_id=3480913&odate=01-OCT-15.

The well located at Speer Park is categorized as a "delineated area" and was given a susceptibility score of 16.66 and a "moderate" concern level. According to the State of Florida's Department of Environmental Protection website,

Approximately 427,897 acres in 38 counties have been delineated for ground water contamination. Of these areas, the majority are delineated for EDB [Ethylene Dibromide] contamination with a few additional areas delineated for solvents and gasoline...These areas are typically mapped using a 1000-foot protective setback from a contaminated well or site.

In layman's terms, the well located at Speer Park is within a 1000-foot radius of an area where ground water has been found to have either contaminants of EDB (Ethylene Dibromide), solvents, or gasoline. The State of Florida has enacted strict regulations and protocols for wells located within a delineated area. Florida Department of Environmental Protection states the following:

Within delineated areas more stringent well construction standards are required for new drinking water well construction, along with testing of well water for the chemicals of concern and clearance for potable use by the Florida Department of Health. Contaminated potable water wells are typically remediated by installation of a granular activated carbon filtration system or by connection to a municipal water system. In addition, community and non-transient non-community public water systems with wells located within a delineated area routinely monitor for EDB and solvents.

For more information on delineated areas, please see the cited resource listed below. http://www.dep.state.fl.us/swapp/pwc.asp#groundwater

This report shows our water quality results and what they mean.

Water Quality Testing Results

Inorganic Contaminants										
Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation Y/N	Level Detected	Range of Results	MCLG	MCL	Likely Source of Contamination			
Antimony (ppb)	8/15	Ν	0.34	N/A	6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder			
Arsenic (ppb)	8/15	Ν	0.81	N/A	0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes			
Barium (ppm)	8/15	N	0.017	N/A	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits			
Chromium (ppb)	8/15	N	1.38	N/A	100	100	Discharge from steel and pulp mills; erosion of natural deposits			
Fluoride (ppm)	8/15	N	0.15	N/A	4	4.0	Erosion of natural deposits; discharge from fertilizer			
Lead (point of entry) (ppb)	8/15	Ν	0.30	N/A	0	15	Residue from man-made pollution such as auto emissions and paint; lead pipe, casing, and solder			
Nickel (ppb)	8/15	N	2.55	N/A	N/A	100	Pollution from mining and refining operations. Natural occurrence in soil.			
Nitrate (as Nitrogen) (ppm)	8/15 – 9/15	N	0.07	0.04 – 0.07	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.			
Selenium (ppb)	8/15	N	1.67	N/A	50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.			
Sodium (ppm)	8/15	N	15.0	N/A	N/A	160	Salt water intrusion, leaching from soil.			
Stage 2 Disinfectants and Disinfection By-Products										
Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	MCL Violation (Y/N)	Level Detected	Range of Results	MCLG Or MRDLG	MCL Or MRDL	Likely Source of Contamination			
Haloacetic Acids (HAA5) (ppb)	8/15	N	18.5	18.34 – 18.5	N/A	60	By-product of drinking water disinfection			
Total Trihalomethanes (TTHM) (ppb)	8/15	Ν	78.34	39.39 – 78.34	N/A	80	BY-product of drinking water disinfection			
Chlorine (ppm)	1/15 – 12/15	N	1.25	.4 – 2.25	MRDLG = 4	MRDL = 4.0	Water additive used to control microbes			

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Lead and Copper (Tap Water)										
Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	AL Exceeded (Y/N)	90 th Percentile Result	No. of sampling sites exceeding the AL	MCLG Or MRDLG	MCL Or MRDL	Likely Source of Contamination			
Copper (tap water) (ppm)	9/15	N	0.316	0	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			
Lead (tap water) (ppb)	9/15	N	3.40	0	0	15	Corrosion of household plumbing systems; erosion of natural deposits			

As you can see by the tables, our system had no violations. We're proud that your drinking water meets or exceeds all Federal and State requirements.

Disclaimer from Florida Department of Environmental Protection

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 Town of Oakland is responsible for providing high quality drinking water, but cannot control the variety of materials used in private 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.

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.

Contaminants that may be present in source water include:

- (A) *Microbial contaminants*, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) 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.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- (D) 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.
- (E) Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

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

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that 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 I-800-426-4791.

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 microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Recent and Future Improvements

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply, we sometimes need to make improvements that will benefit all of our customers. These improvements are typically funded by impact fees and by the rates that our customers pay for their water consumption. After many years with the same rates, the Town made changes to the rate structure in October, 2013. This was to provide for increased operating expenses and to provide for much needed capital improvements. In an effort to be environmentally conscious, the rates were also designed to promote water conservation and comply with state mandates pertaining to such.

Future plans for improvement include modifications to the 40+ year old elevated tank which will allow it to serve in a "reserve" status in the event of an emergency. Plans are also being developed for a retrofitting of the 150,000 gallon ground storage tank and pumping facility located along West Oakland Avenue, and for developer-driven expansion and improvements of water distribution in the area of J.W. Jones Road. According to the Joint Planning Agreement the Town has instituted with Orange County, the Town plans to acquire the small water plant on 4th Street, south of HWY 50. Plans for extending water lines across HWY 50 and adding water connections – along with other improvements – are being developed for this area of Town.

In Closing

We at the Town of Oakland would like you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to insuring the quality of your water. If you have any questions or concerns about the information provided, please feel free to call any of the numbers listed in this report.