

# Looking Forward in 2016

The Village of Tequesta Water Department is committed to delivering the highest quality water to our community. We have always taken a proactive approach in the maintenance and improvements of the Water Plant. This helps maintain the superior quality of water delivered to your home and businesses.

In 2016 the water plant will improve the existing filter plant operations. The project includes the replacement and installation of a new Process Control Panel.

The panel will include new technology for controlling the filter plant operations. This is comprised of remote monitoring equipment, programmable logic controllers, pushbuttons for each motor operated valve, and all new flow meters and transmitters.

The existing Motor Control Center for the filter plant will be removed and replaced with new state-of-the-art electrical equipment. This equipment is more efficient and allows for safe and reliable electric power in the plant.

The existing Acid and Caustic Tanks will be replaced as well in 2016, as a part of our ongoing Capital Improvement Plan.



## Preventive Maintenance

Once a year for preventative maintenance purposes and to maintain high water quality in the Village of Tequesta's water distribution system, the Water Utilities Department will temporarily modify the disinfection process used to treat our drinking water. The Village will use a somewhat stronger chlorine disinfection method instead of the mono-chloramine normally used in the water distribution arrangement. This temporary condition will not cause adverse health effects.

Users of home dialysis machines, owners of tropical fish, and managers of stores and restaurants with fish and shellfish holding tanks are advised to seek professional advice. The method for removing chlorine residuals differs from removing mono-chloramine residuals from tap water.

The Village of Tequesta will advertise on its website dates and times this will occur. Normally, this happens in late February or early March.

# Village of Tequesta



## ANNUAL DRINKING WATER QUALITY REPORT OF THE VILLAGE OF TEQUESTA



PRESORTED STANDARD  
U.S. POSTAGE  
PAID  
WEST PALM BEACH, FL  
PERMIT # 1987

The Utilities Department provides you with this Consumer Confidence Report as a transparent record regarding the quality of our drinking water supply. This report is a compilation of information based on laboratory analyses performed daily, monthly, quarterly, and annually. 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.

The Village of Tequesta is proud to say that your drinking water exceeds the drinking water quality parameters. This is the result of state-of-the-art membrane treatment technology, consistent rehabilitation efforts and dedicated employees who are responsible for water treatment, analysis and distribution.

The Utilities Department is involved in many projects not only for new development but also in the rehabilitation of our existing infrastructure both at the plant and in the field. This work is essential to help maintain the high quality of water pumped from our treatment plant through the distribution system to your tap.

Water conservation is and will continue to be a key issue as we comply with ground water withdrawal restrictions. We must continue the great job of conservation that the Village of Tequesta is doing. Please continue your conservation efforts and improve them where possible by fixing all leaks, installing water-efficient fixtures and toilets, and maintaining a culture of preservation.

Even though the cost of producing quality water continues to rise, the benefit to you as our customer is tremendous and remains a good value. The Village of Tequesta supplies the “Best Tasting Water” to your home every day of the year.

*Sam Heady, Deputy Director of Utilities*

## Our Mission:

- Provide responsive, courteous and excellent service in order to achieve customer satisfaction and improve the quality of life for the citizens of the Village of Tequesta and its other customers.
- Develop a long-range strategic plan to meet future infrastructure and utility service needs for community growth, development, and expansion.
- Enhance public awareness of environmental surroundings.

## Village of Tequesta Leadership

### VILLAGE COUNCIL:

Abby Brennan, Mayor  
Vince Arena, Vice-Mayor  
Steve Okun, Council Member  
Tom Paterno, Council Member  
Frank D'Ambra, Council Member

### VILLAGE STAFF:

Michael R. Couzzo, Jr., Village Manager  
Sam Heady, Deputy Director of Utilities

The Village Council meets monthly  
with dates and times posted on  
[www.tequesta.org](http://www.tequesta.org)

## The Utilities Department is committed to providing the best level of service

This report reflects the effort and dedication of the Village of Tequesta Utilities Department personnel to communicate the results of all testing conducted in our Water Treatment Plant and water system. Our goal is to continue to provide a safe and dependable water supply for you, our customers.

*The assessment results are available to the public at: [www.dep.state.fl.us/swapp](http://www.dep.state.fl.us/swapp).*

### How Safe is our Water?

The Environmental Protection Agency (EPA) has established levels for substances that may be found in the Village's tap water and requires that we communicate this information to you on an annual basis. The 2015 test results table shows these levels as regulated by EPA and the highest levels found in the Village's 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:

*Environmental Protection Agency Safe Drinking Water Hotline: 800-426-4791*

### How does the Village Department manage and operate the water system?

The Village of Tequesta Utilities Department operates and maintains its water treatment facilities and 72 miles of distribution system piping. The Utilities Department is operated under the supervision of the Village Manager. The Utilities Department has four divisions which include administration, water treatment (pumping and storage), distribution and customer service. The Utilities Department consist of nineteen employees. Seven are license Water Plant Operators and four are licensed water distribution system operators.



### Is this all that the Village tests?

To assure the safety and reliability of our drinking water, several hundred samples per year are analyzed from the Water Treatment Plant and distribution piping system. The samples are collected and analyzed by certified operators and certified independent laboratories. All of the analytical results from the collected samples are forwarded to the Florida Department of Health on a monthly basis. Out of all the contaminants that were monitored in our water, most were not detected. These non-detectable contaminants include organic and inorganic chemicals, natural and synthetic chemical compounds, volatiles, unregulated contaminants, and microbiological organisms. Only the contaminants that were detected are included in the test result table of this Water Quality Report.

*If you have questions concerning your water utility, please contact Samuel Heady, Deputy Director, Utilities at 561-768-0493, or E-mail him at: [sheady@tequesta.org](mailto:sheady@tequesta.org).*

## Substances That Could Be in 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). 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:

**Microbial Contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic Contaminants**, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

**Pesticides and Herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

**Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

**Radioactive Contaminants**, which can be naturally occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the U.S. 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 the public. In order to ensure that tap water is safe to drink, EPA prescribes regulations which 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.

### Do I Need to Take Special Precautions?

Some people may be more vulnerable to contaminants in drinking water than the general population, 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 guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

### The effects of lead in drinking water on children

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. Village of Tequesta 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>.

# YEAR 2015 TEST RESULTS • VILLAGE OF TEQUESTA

The Village of Tequesta routinely monitors for contaminants in our 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, 2014, and presented in this report, are from the most recent testing done in accordance with the laws, rules and regulations.

Contaminant and Unit of Measurement	Dates of sampling	MCL Violation (mo/yr)	Level Detected Y/N	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
<b>Inorganic Contaminants</b>							
Barium (ppm)	2/15	N	0.0056	NA	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Fluoride (ppm)	2/15	N	0.041	N/A	2.0	2.0	Erosion of natural deposit; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at optimum levels between 0.7 and 1.3 ppm
Nitrate (as Nitrogen) (ppm)	2/15	N	0.16	N/A	10	10	Run off from fertilizer use, leaching from septic tanks, Stage 2 Disinfectants and Disinfection By-Products

## Stage 2 Disinfectants and Disinfection By-Products

For bromate, chloramines, or chlorine, the level detected is the highest running annual average (RAA), computed quarterly, of monthly averages of all samples collected. For haloacetic acids or TTHM, the level detected is the highest RAA, computed quarterly, of quarterly averages of all samples collected if the system is monitoring quarterly or is the average of all samples taken during the year if the system monitors less frequently than quarterly. Range of results is the range of individual results (lowest to highest) for all monitoring locations, including Initial Distribution System Evaluation (IDSE) results as well as Stage 1 compliance results.

Disinfectants and Disinfection By-Products	Dates of sampling (mo/yr)	MCL or MRDL Violation Y/N	Level Detected Y/N	Range of Results	MCLG or MRDLG	MCL or MRDL	Likely Source of Contamination
Chloramines (ppm)	Monthly 2015	N	1.54	0.6 – 4.0	MRDLG = 4.0	MRDL = 4.0	Water additive used to control microbes
Haloacetic Acids (five)(HAA5)(ppb)	Quarterly 2015	N	24.77	3.00-36.80	N/A	MCL = 60	By-product of drinking water disinfection
TTHM (Total trihalomethanes) (ppb)	Quarterly 2015	N	29.53	8.00-40.50	N/A	MCL = 80	By-product of drinking water chlorination

## Lead and Copper (Tap Water)

Contaminant and Unit of Measurement	Dates of sampling (mo/yr)	AL Exceeded Y/N	90th Percentile Result	No. of Sampling sites exceeding the AL	MCLG	AL (Action Level)	Likely Source of Contamination
Copper (tap water)(ppm)	6/15	N	1.1	1	1.3	1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood & preservatives
Lead (tap water) (ppb)	6/15	N	0.0039	0	15	15	Corrosion of household plumbing systems; erosion of natural deposits

## Secondary Contaminants

Disinfectants and Disinfection By-Products	Dates of sampling (mo/yr)	MCL Violation Y/N	Highest Result	Range of Results	MCLG	MCL	Likely Source of Contamination
Aluminum (ppm)	4/15	N	0.0	N/A	0.2	0.2	Natural occurrence from soil leaching
Chloride (ppm)	4/15	N	73	N/A	250	250	Natural occurrence from soil leaching
Color (color units)	6/15	Y	20	N/A	15	15	Naturally occurring organics
Copper (ppm)	4/15	N	0.0	N/A	1	1	Corrosion byproduct & natural occurrence from soil leaching
Fluoride (ppm)	2/15	N	0.041	N/A	2.0	2.0	Erosion of natural deposits; discharge from fertilizer and aluminum factories. Water additive which promotes strong teeth when at the optimum level of 0.7 ppm
Foaming Agents (ppm)	4/15	N	0.0	N/A	0.5	0.5	Pollution from soaps and detergents (MBAS)
Iron (ppm)	4/15	N	0.030	N/A	0.3	0.3	Natural occurrence from soil leaching
Manganese (ppm)	4/15	N	0.0030	N/A	0.05	0.05	Natural occurrence from soil leaching
Odor (threshold odor number)	4/15	N	0	N/A	3	3	Naturally occurring organics
Silver (ppm)	4/15	N	0.0	N/A	0.1	0.1	Natural occurrence from soil leaching
Zinc (ppm)	4/15	N	0.0	N/A	5	5	Natural occurrence from soil leaching
Sulfate (ppm)	4/15	N	14	N/A	250	250	Natural occurrence from soil leaching
Total Dissolved Solids (ppm)	4/15	N	250	N/A	500	500	Natural occurrence from soil leaching

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

MCL – Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water.

MCLs are set as close to the MCLG as feasible using the best available treatment technology.

MCLG – Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which

there is no known, or expected risk to health. MCLG's allow for a margin of safety

N/A – Not Applicable

ND – means not detected and indicates that the substance was not found by laboratory analysis

PPB – Parts per billion (ppb) or Micrograms per liter (Ug/l)– one part by weight of analyte to 1 billion parts by weight of the water sample

PPM – Parts per million (ppm) or Milligrams per liter (mg/l) – one part by weight of analyte or contaminant to 1 million parts by weight of the water sample

MRDLG – Maximum Residual Disinfectant Level Goal

MRDL – Maximum Residual Disinfectant Level

In 2015 we had a violation of the secondary color standard. Subsequent analysis showed acceptable results. No further action was taken.